BENDIX STROMBERG BULLETIN

IMPORTANT - READ CAREFULLY AND FILE Technical

BULLETIN No. S-3301-1942

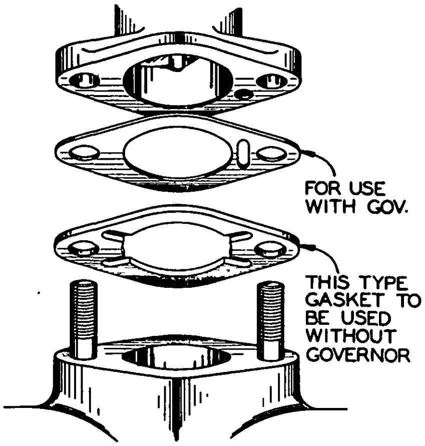
DATE January 30, 1942

SUBJECT: FLANGE GASKETS FOR "BXV" SERIES CARBURETORS

STROMBERG DISTRIBUTORS, ASSOCIATE DISTRIBUTORS & DEALERS

In the "BXV" series equipment packages, we have been including two types of flange gaskets to provide for installations equipped with or without a governor. There have been a number of installations where maximum effeciency of the vehicles was not realized because our instructions were not followed.

We again wish to call your attention that in order to obtain satisfactory performance and economy, it is essential that the proper gasket as illustrated, be used with or without a governor. When used with a governor, the single slot gasket should be placed so that the slot is in line with the holes in the carburetor and governor flanges.



Considering the small number of vehicles that are equipped with governors, we have decided to eliminate the "governor gasket" from all "BXV" series equipment packages. When installing a carburetor in conjunction with a governor, it will be necessary for the service station to provide the correct gasket. We give you herewith the numbers of those that should be kept in stock.

P-24137 for BXV-2's & BXOV-2's) For use with governor
P-24136 for BXUV-3's & BXV-3's)

P-24314 for BXV-2's & BXOV-2's) For use without governor
P-24266 for BXUV-3's & BXV-3's)

BENDIX PRODUCTS DIVISION

E. F. Wenzel
Service Sales Department

BENDIX STROMBERG BULLETIN

IMPORTANT - READ CAREFULLY AND FILE

Technical
BULLETIN No. S-3302-1942
DATE January 28, 1942

SUBJECT: MAIN DISCHARGE JET PLUG AND PUMP INLET PLUG GASKET FOR "BXV" & "AA" SERIES CARBURETORS.

To Stromberg Distributors, Associate Distributors & Dealers.

In the "BXV" and "AA" Series Carburetors which use the steel type of plug for the Main Discharge Jet and Pump Inlet Check Valve, the design is such that no gasket is necessary under the head of the plug for a tight seal. In the field, however, careless handling while servicing the main body has resulted in the seats being damaged and occasionally causes a slight leak.

As a precautionary measure, we have added a copper gasket under these plugs in the late production units and they can also be used if any difficulty is encountered in servicing units in the field.

For P-23902 Main Jet Plug use #383079 Gasket
For P-24673 Pump Check Plug use #383080 Gasket.

BENDIX PRODUCTS DIVISION

E. F. Wenzel
Service Sales Department

STROMBERG SF-1 CARBURETOR

STROMBERG NO. A-18351 (CODE NO. 17-22) AUBURN SYMBOL NO. 1J-100

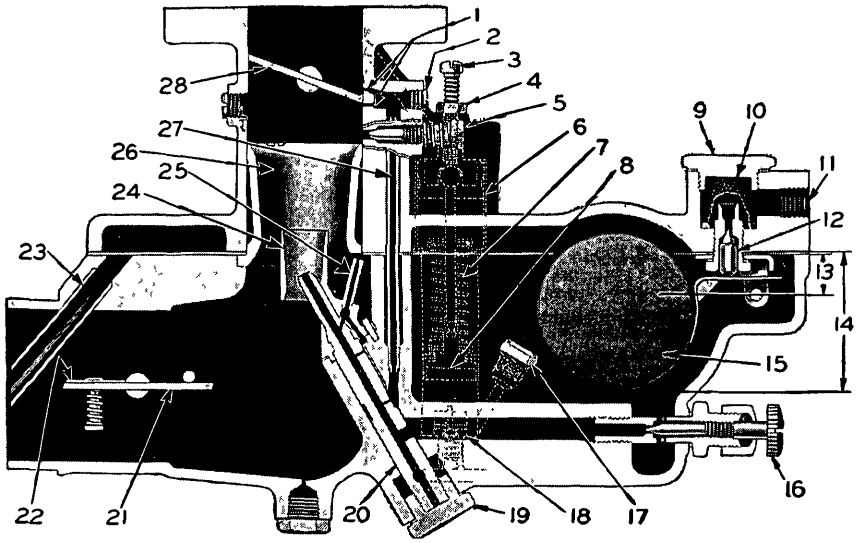
SIZE: 1″ UPDRAFT 2-3/8″ FLANGE CENTER DRILLED 11/32″

1939
AUBURN
Pak-Ag -Car
3-5/16″ x 3-7/8″—4 cyl.

PARTS ILLUSTRATED

1 Idle Discharge Holes
2 Idle Discharge Plug
5. Idle Needle Valve
9 Strainer Plug
10. Strainer
11. Gasoline Inlet
12. Float Needle Valve and Seat
13 Fuel Level (see instructions)
14 Float Setting (see instructions)
15 Float
16. Adjustable Metering Jet
19 Main Discharge Jet Nut
20 Main Discharge Jet
21. Choke Valve
22 Choke Poppet Valve
23 Vent Tube
24 Small Venturi
25. High Speed Bleed
26 Large Venturi
27. Idle Tube
28 Throttle Valve

NOTE—Carburetor covered by this form has Parts Nos. 3, 4, 6, 7, 8, 17 and 18 omitted from assembly.



Note—Specifications below are for latest production; previous major changes listed on parts page.

FUEL LEVEL—For measuring fuel level it is advisable to use on open vessel with a leveled top, large enough to support the throttle valve body and to accommodate the float assembly. Place main body gasket between body and vessel before checking. Connect gas line to inlet in throttle body and allow gas to feed into measuring vessel at **2 lbs.** pressure until flow is stopped by the closing of the float needle valve. Fuel level should measure **9/16″** below top surface of vessel (without gasket); use standard depth gauge for measuring fuel level. To correct fuel level hold throttle body in inverted position and set float to measure **1-3/4″** from top of float to gasket surface which will give approximate fuel level; change if necessary.

MAIN METERING SYSTEM — Venturi **5/8″**, P-16872; Main Discharge Jet **No. 32,** P-24208; (**Tool T-20139** used to remove main disch. jet). High Speed Bleeder **No. 65** P-12870; Main Metering Jet **.034″** P-15384, (**Tool T-20139**). (Use new P-6855 main disch. jet gasket when replacing main disch. jet.)

IDLE SYSTEM—Idle discharge holes **No. 56-70.** With throttle valve fully closed and **No. 56** drill in idle hole, edge of valve is located Flush + — **.004″** from **No. 56** drill. Idle tube **No. 70** P-24204; Adjust to smooth running, IN to make richer, OUT to make leaner.

FLANGE GASKET—P-24770.

SPECIAL TOOLS REQUIRED—T-20139 Main Discharge and Metering Jet; T-20182 Bushing and vent tube remover; T-20140 Socket for float needle valve seat.

MOTOR TUNE-UP DATA

SPARK PLUG—.035.
Clean and adjust at regular intervals.

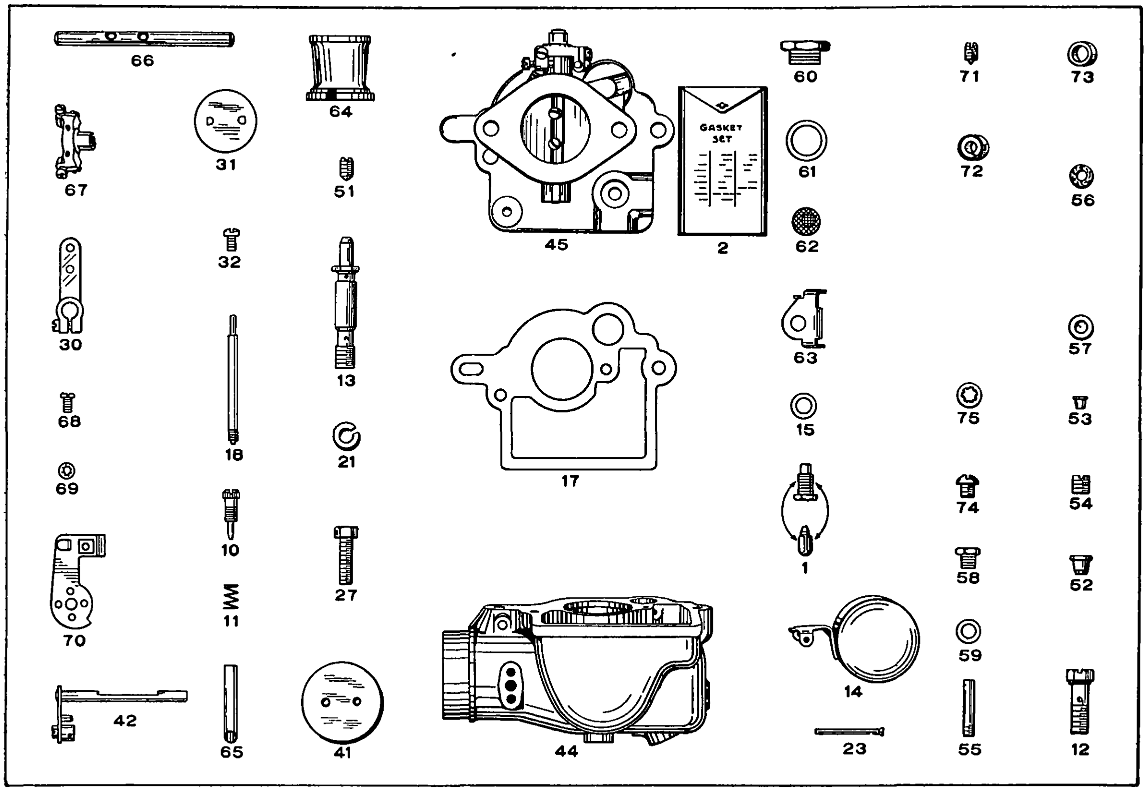
DISTRIBUTOR—
Breaker gap set .022″. Replace if necessary.

VALVES—**Intake: .008″; Exhaust: .010″. Engine hot.**

IGNITION TIMING—**Use timing light. Spark should occur in No. 1 cylinder when ball location of flywheel is 7° before Dead Center.**

SERVICE RECOMMENDATION—**Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.**

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Key No	Part No	Part Name	
1	P 17282	Float Needle Valve and Seat 113	(NOT VAR)
2	J 4269 G	Complete Gasket Set	
10	P 15396	Idle Needle Valve	
11	P 12530	Spring—Idle Needle Valve	
12	P 15384	Metering Jet **034″**	**(VAR)**
13	P 24208	Main Discharge Jet **No 32**	**(VAR)**
14	P 16767	Float	
15	P 11572	Gasket—Float Needle Valve Seat	
17	P 16870	Gasket—Main Body	
18	P 24204	Idle Tube	
21	P 6592	Lockwasher—Main Body Attach Screw	
23	P 16760	Fulcrum Pin—Float	
27	P 16879	Screw—Main Body Attach	
30	P 24205	Throttle Lever	
	P 3199	Throttle Lever Clamp Screw	
31	P 17916	Throttle Valve	
32	P 16717	Screw—Throttle Valve Attach	
41	P 22383	Choke Valve	
42	P 24207	Choke Stem	
44	P 24202	Main Body	
45	382329	Throttle Body (complete with **No 56-70** idle holes throttle valve and stem)	**(VAR)**
51	P 14745	Set Screw—Vent Tube	
52	P 20454	Plug—Idle Channel	
53	P 15458	Plug—Pump Channel	
54	P 12780	Plug—Idle Disch Holes	
55	P 12870	High Speed Bleeder **No 65**	**(VAR)**
56	P 14160	Washer—Cork	
57	P 22713	Washer—Idle Tube	
58	P 26	Plug—Gas Inlet	
59	P 6855	Gasket—Main Discharge and Metering Jet	
60	P 15540	Plug—Strainer	
61	P 22851	Gasket—Strainer Plug	
62	P 12958	Assembly—Strainer	
63	P 16761	Hanger—Float	
64	P 16872	Venturi **5/8″**	**(VAR)**
65	P 16871	Vent Tube	
66	P 16875	Throttle Stem	
67	P 6893	Throttle Stop	
	P 12375	Screw—Idle Adj	
	P 47	Screw—Idle Adj Clamp	
68	P 14646	Screw—Choke Tube Holder Attach	
69	P 15346	Lockwasher—Choke Tube Holder Attach Screw	
70	P 11969	Choke Tube Holder	
	P 11561	Clamp—Choke Tube	
	P 12868	Screw—Choke Tube Clamp	
	P 8806	Nut—Choke Tube Clamp Screw	
71	P 16161	Set Screw—Choke Stem Collar	
72	P 17081	Collar—Choke Stem	
73	P 13828	Bushing—Choke Lever Spacer	
74	49 S 13	Screw—Choke Valve Attach	
75	P 21029	Lockwasher—Choke Valve Attach Screw	

BENDIX PRODUCTS DIVISION
SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

STROMBERG "EX-22" CARBURETOR

STROMBERG NO. A-18052 (CODE NO. 17-3) AUBURN SYMBOL J-10337

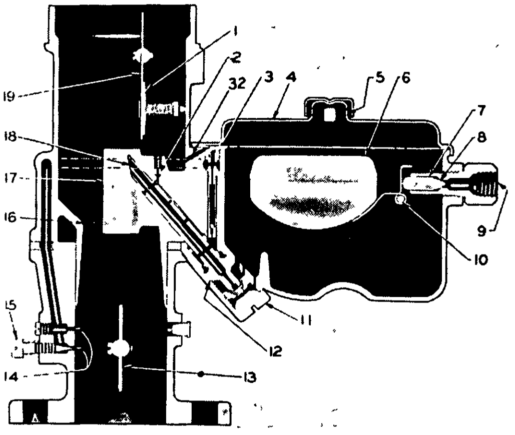
SIZE: 1¼" D.D. S.A.E. 2-11/16" FLANGE CENTERS. REPLACE WITH BXV-2 EQT. J-5514 or BXV-25 EQT. J-5513

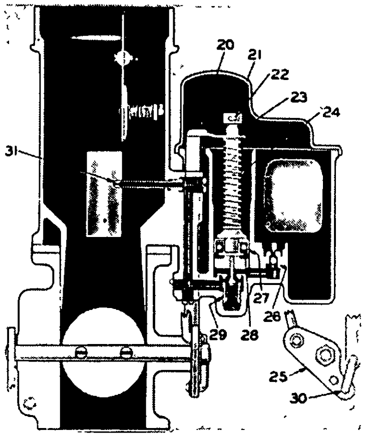
1935-36 AUBURN

MODELS
1935 — 6-53
1936 — 6-54
3-1/16"x4-3/4"—6 cyl.

PARTS ILLUSTRATED

1. Poppet Valve
2. High Speed Bleed
3. Idle Tube
4. Float Chamber Cover
5. Float Chamber Vent
6. Float
7. Float Needle Valve
8. Float Needle Valve Seat
9. Gasoline Inlet
10. Float Fulcrum Pin
11. Main Discharge Jet Plug
12. Main Metering Jet
13. Throttle Valve
14. Idle Discharge Holes
15. Idle Needle Valve
16. Primary Venturi
17. Auxiliary Venturi
18. Main Discharge Jet
19. Choke Valve
20. Pump Rod
21. Power Adjustment Nut
22. Cotter Pin
23. Piston Connecting Rod
24. Connecting Rod Spring
25. Pump Lever
26. Check Valve
27. Pump Piston
28. Pump Piston Spring
29. Power By-Pass Jet
30. Pump Lever Link
31. Pump Discharge Nozzle





Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **5/8"** below top surface of float chamber (without gasket) at 3 lbs. pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level.)

MAIN METERING SYSTEM—Venturi **1-3/32"**; Main Discharge Jet **No. 32** P-20638 **(Tool T-24925)**. Use new P-20630 lead gasket assembled on lower shoulder of Main Discharge Jet; High Speed Bleeder **No. 70** (in body); Main Metering Jet **.057"** P-17004 **(Tool T-23844)**; use **Tool T-19099** to remove Main Jet Plug; Main Metering System controls the flow of fuel up to approximately 65 to 70 M. P. H.

POWER SYSTEM—Combination Power and Pump By-Pass Jet **4 No. 56** P-18149. Pump piston to rest on seat of by-pass jet (less over-travel) with throttle valve opened **3/8"** + — **1/64"** (measure with shank end of **3/8"** drill) adjust pump stem nut to obtain correct setting; the Power Jet is brought into action at approximately 65 to 70 M. P. H.

ACCELERATION — Pump Discharge Nozzle **No. 70** P-18126; Pump capacity **17** to **19** c.c. per 10 strokes. (Maximum setting.) Use **Tool T-24972.** Pump action takes place during acceleration period only.

IDLE SYSTEM—Idle Discharge Holes **Nos. 56-58**; with throttle valve fully closed and **No. 58** drill in idle hole, edge of valve is located **.012"** + — **.004"** from **No. 58** drill; Idle Air Bleed **No. 54** P-15477; Idle Tube **No. 70** P-22042. **Adjustment:** Adjust to smooth running, OUT to make richer and IN to make leaner. Throttle at 7 to 8 M. P. H.

FLANGE GASKET—P-4752.

SPECIAL TOOLS REQUIRED—T-24733 Float Adjuster; T-24925 Main Discharge Jet Remover; T-23844 Main Metering Jet Wrench; T-24970 By-Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burrette Gauge; T-24968 Handle; T-19099 Main Jet Plug Screw Driver.

MOTOR TUNE-UP DATA

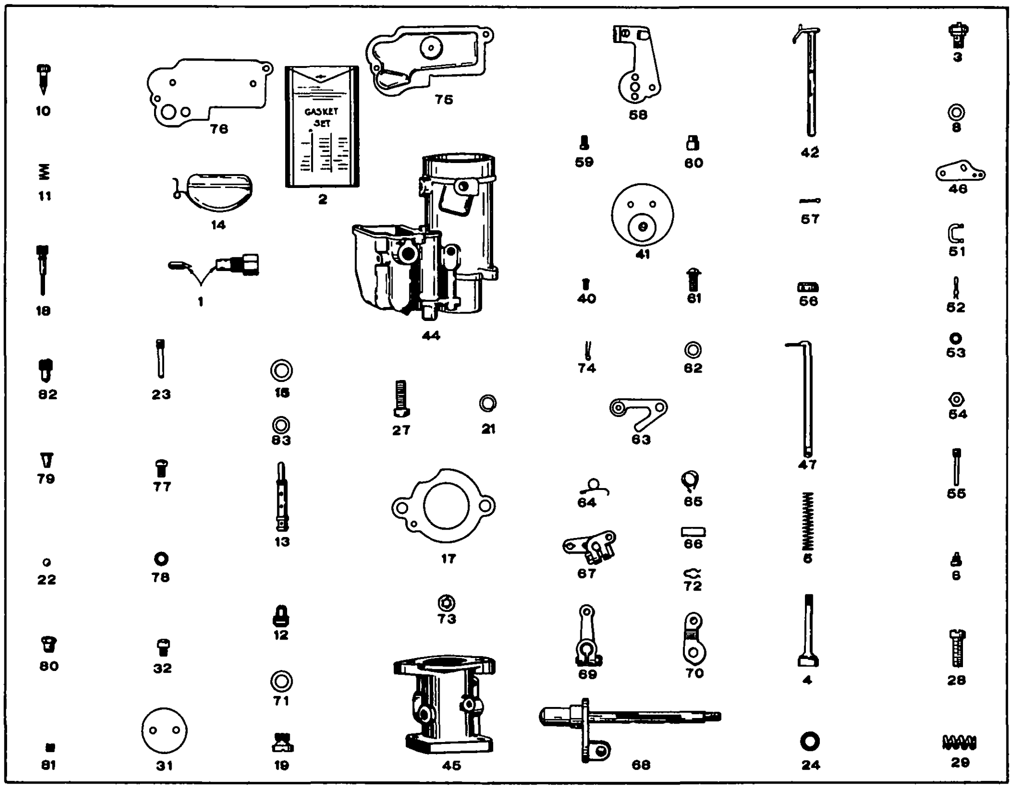
SPARK PLUGS—.025".
Clean and adjust at regular intervals.

DISTRIBUTOR—.018" to .020".
Breaker gap set .018" to .020".
Replace if necessary.

VALVES—Intake: .006" to .008".
Exhaust: .006" to .008". **Engine hot.**

IGNITION TIMING—Breaker contacts to open for No. 1 cylinder 3° B. T. D. C. when flywheel mark is in line with indicator.

SERVICE RECOMMENDATION — Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key N.	Part N.	Part Name	
	1	**P-18913**	Float Needle Valve & Seat—113"	**(NOT VAR.)**
	2	**J-4533-G**	Complete Gasket Set	
	3	**P-18149**	Pump By-Pass Jet No 56	**(NOT VAR.)**
	4	**P-19527**	Assy Pump Piston	**(Includes P-16960)**
	5	**P-18215**	Spring—Pump Duration	
	6	**P-18144**	Check Valve—Pump Inlet	
	8	**P-6855**	Gasket—Pump By-Pass Jet	
	10	**P-17402**	Idle Needle Valve	
	11	**P-15481**	Spring—Idle Needle Valve	
	12	**P-17004**	Metering Jet **.057"**	**(VAR.)**
	13	**P-20638**	Main Discharge Jet No 32	**(NOT VAR.)**
	14	**P-17486**	Float with Lever	
	15	**P-10666**	Gasket—Float Needle Valve Seat and Main Disch Jet Plug	
	17	**P-16943**	Gasket—Main Body	
	18	**P-22042**	Idle Tube—No 72	**(NOT VAR.)**
	19	**P-18130**	Plug—Main Disch Jet	
	21	**P-8838**	Lockwasher—Main Body Attach Screw	
	22	**P-18772**	Lead Ball	
	23	**P-18125**	Pin—Fulcrum—Float Lever	
	24	**P-16960**	Spring—Pump Piston Leather Expansion	
	27	**P-17000**	Screw—Main Body Attach	
	28	**P-15456**	Screw—Throttle Stop	
	29	**P-15831**	Spring—Throttle Stop Screw	
	31	**P-6454**	Throttle Valve (18½°)	**(VAR.)**
	32	**P-16717**	Screw—Throttle Valve Attach	
	40	**P-4522**	Screw—Choke Valve Attach	
	41	**P-17010**	Choke Valve	
	42	**P-19378**	Choke Stem and Stop	
	44	**P-22039-T**	Main Body **1-3/32"** Venturi **No. 70** High Speed Bleeder	**(VAR.)**
	45	**P-19371**	Throttle Body **No. 56-58** Idle Holes	**(VAR.)**
		P-19370	Pin—Throttle Cracking Lever	
	46	**P-18358**	Pump Lever	
	47	**P-19165**	Pump Rod	
	51	**P-18141**	Link—Pump Lever and Rod	
	52	**P-18114**	Cotter Pin—Pump Lever and Rod Link	
	53	**P-1791**	Lockwasher—Pump Lever Attach Nut	
	54	**P-2290**	Nut—Pump Lever Attaching Nut	
	55	**P-18126**	Nozzle—Pump Disch **No. 70**	**(VAR.)**
	56	**P 18135**	Nut—Pump Piston Adj	
	57	**P-4**	CotterPin—Pump Piston Adj Nut	

NOTE—For parts marked (VAR.) size must be specified when ordering.

Bin Location	Key No.	Part No.	Part Name	
	58	**P-17067**	Tube Holder (Complete)	
		P-17051	Choke Holder	
		P-11561	Choke Tube Clamp	
		P-12868	Choke Tube Clamp Screw	
		P-8806	Choke Tube Clamp Screw Nut	
	59	**P-17093**	Screw—Tube Holder Attach	
	60	**P-17058**	Bushing—Choke Lever	
	61	**P-17059**	Screw—Choke Lever Bushing	
	62	**P-17449**	Washer—Choke Stem	
	63	**P-17053**	Choke Lever with Wire Conn and Screw	
		P-12867	Wire Conn Screw	
	64	**P-17068**	Spring—Choke Valve Return	
	65	**P-17132**	Spring—Choke Lever Return	
	66	**P-14763**	Block—Choke Stem Lever	
	67	**P-19376**	Assy—Fast Idle Lever (Choke Stem)	
		P-19375	Lever	
		P-18300	Clamp Screw	
		P-18299	Clamp Screw Nut	
	68	**P-20835**	Throttle Stem and Stop	
	69	**P-20997**	Assy Throttle Lever	
		P-20996	Lever	
		P-3199	Clamp Screw	
	70	**P-19369**	Cracking Lever	
	71	**P-12400**	Washer—Throttle Cracking Lever	
	72	**P-21338**	Cotter Pin—Throttle Cracking Lever Washer	
	73	**P-20883**	Rod—Throttle Cracking	
	74	**P-7170**	Cotter Pin—Throttle Cracking Rod	
	75	**P-18124-F**	Float—Cover	
	76	**P-17778**	Gasket—Float Cover	
	77	**P-2866**	Screw—Float Cover Attach	
	78	**P-12167**	Lockwasher—Float Cover Attach Screw	
	79	**P-15459**	Plug—¼"	
	80	**P-21053**	Plug—Pump Disch Channel	
	81	**P-6387**	Plug—No 10 32 Idle Disch Hole	
	82	**P-15477**	Idle Air Bleeder **No. 54**	**(VAR.)**
	83	**P-20630**	Gasket—Main Discharge Jet Lead	

NOTE: 1935 MODELS USED

P-20842-T Assembly Main Body in place of P-22039-T

P-20821 Idle Tube in Place of P-22042

This carburetor used an interior idle air bleeder in the main body in place of idle air bleeder P-15477

BENDIX PRODUCTS DIVISION
SOUTH BEND **OF BENDIX AVIATION CORPORATION** **INDIANA**

STROMBERG "EX-32" CARBURETOR

STROMBERG NO. A-17753 (CODE NO. 17-9A) AUBURN SYMBOL NO. J-10342

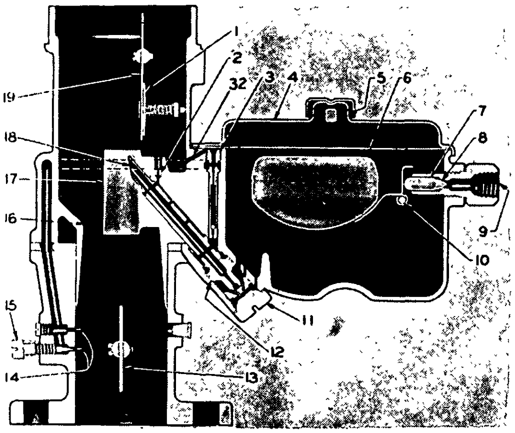
SIZE: 1½" D. D. S. A. E.—2-15/16" FLANGE CENTERS REPLACE WITH EXV-3 J-5515 or EXV-35 EQPT. J-5516

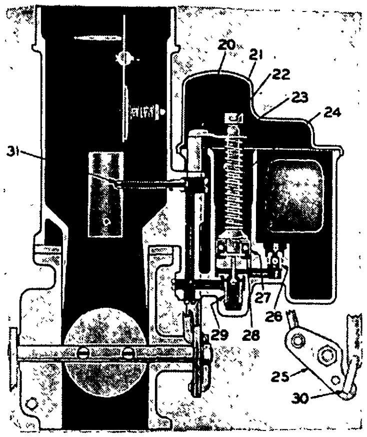
1935-36 AUBURN

MODELS
1935—8-51, 1936—8-52
SUPERCHARGED
3-1/16"x4¾"—8 cyl.

PARTS ILLUSTRATED

1. Poppet Valve
2. High Speed Bleed
3. Idle Tube
4. Float Chamber Cover
5. Float Chamber Vent
6. Float
7. Float Needle Valve
8. Float Needle Valve Seat
9. Gasoline Inlet
10. Float Fulcrum Pin
11. Main Discharge Jet Plug
12. Main Metering Jet
13. Throttle Valve
14. Idle Discharge Holes
15. Idle Needle Valve
16. Primary Venturi
17. Auxiliary Venturi
18. Main Discharge Jet
19. Choke Valve
20. Pump Rod
21. Power Adjustment Nut
22. Cotter Pin
23. Piston Connecting Rod
24. Connecting Rod Spring
25. Pump Lever





26. Check Valve
27. Pump Piston
28. Pump Piston Spring
29. Power By-Pass Jet
30. Pump Lever Link
31. Pump Discharge Nozzle

Note—Specifications below are for latest production; previous major changes listed on Parts Page.

FUEL LEVEL—Measure **5/8"** below top surface of float chamber (without gasket) at 3 lbs. pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level.)

MAIN METERING SYSTEM—Venturi 1⅜"; Main Discharge Jet **No. 28** P-17167 **(Tool T-24967)**; High Speed Bleeder **No. 70** (in body); Main Metering Jet **.082"** P-17004 **(Tool T-23844)**; **(Tool T-19099)** used to remove main jet plug; Main Metering System controls the flow of fuel up to approximately 65 to 70 M. P. H.

POWER SYSTEM—Combination Power and Pump By-Pass Jet **4 No. 56** P-18149 Pump piston to rest on seat of by-pass jet (less over-travel) with throttle valve opened **27/64"** (measure with shank end of **27/64"** drill) adjust pump stem nut to obtain correct setting. The Power Jet is brought into action at approximately 65 to 70 M. P. H.

ACCELERATION — Pump Discharge Nozzle **No. 66** P-18126; Pump capacity **19** to **21** c.c. per 10 strokes. (Maximum setting.) **(Tool T-24972)** Pump action takes place during acceleration period only.

IDLE SYSTEM—Idle Discharge Holes **Nos. 56-58**; with throttle valve fully closed and **No. 58** drill in idle hole, edge of valve is located **.012"** + — **.004"** from **No. 58** drill; Idle Air Bleed **No. 56** P-15477; Idle Tube **No. 68** P-17228. **Adjustment:** Adjust to smooth running, OUT to make richer and IN to make leaner. Throttle at 7 to 8 M. P. H.

FLANGE GASKET—P-4753.

SPECIAL TOOLS REQUIRED—T-24733 Float Adjuster; T-24967 Main Discharge Jet Remover; T-23844 Main Metering Jet Wrench; T-24970 By-Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burrette Gauge; T-24968 Handle; T-19099 Main Jet Plug Screw Driver.

MOTOR TUNE-UP DATA

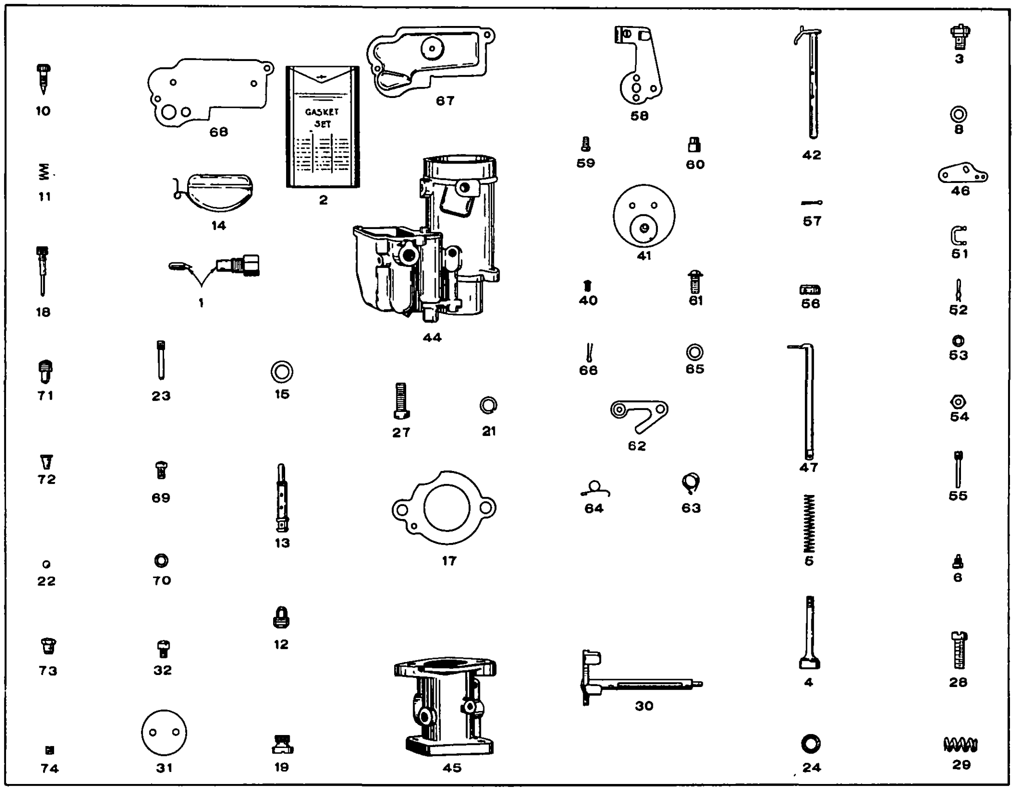
SPARK PLUGS—.025".
Clean and adjust at regular intervals.

DISTRIBUTOR—.018" to .020".
Breaker gap set .018" to .020".
Replace if necessary.

VALVES—Intake: .006" to .008".
Exhaust. :006" to .008". **Engine hot.**

IGNITION TIMING—Breaker contacts to open for No. 1 cylinder 3° BTDC, when flywheel mark is in line with indicator.

SERVICE RECOMMENDATION — Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No.	Part No.	Part Name
	1	**P-18913**	Float Needle Valve and Seat .113" **(NOT VAR.)**
	2	**J-4364-G**	Complete Gasket Set
	3	**P-18149**	Power By-Pass Jet 4 No. 56 **(NOT VAR.)**
	4	**P-19527**	Pump Piston and Link **(Includes P-16960 Spring)**
	5	**P-18215**	Spring—Pump Duration
	6	**P-18144**	Check Valve—Pump Inlet
	8	**P-6855**	Gasket—By-Pass Jet
	10	**P-17402**	Idle Needle Valve
	11	**P-15481**	Spring—Idle Needle Valve
	12	**P-17004**	Metering Jet **.082"** **(VAR.)**
	13	**P-17167**	Main Disch. Jet No. 28 **(NOT VAR.)**
	14	**P-17486**	Float with Lever
	15	**P-10666**	Gasket—Float N.V. Seat & Main Disch. Jet Plug
	17	**P-17557**	Gasket—Main Body
	18	**P-17228**	Idle Tube—No. 68 **(NOT VAR.)**
	19	**P-18130**	Plug—Main Disch. Jet
	21	**P-6592**	Lockwasher—Main Body Attach. Screw
	22	**P-18772**	Lead Ball
	23	**P-18125**	Pin—Float Fulcrum Screw
	24	**P-16960**	Spring—Pump Piston Leather Expansion
	27	**P-17000**	Screw—Main Body Attach.
	28	**P-15456**	Screw—Throttle Stop
	29	**P-15831**	Spring—Throttle Stop Screw
	30	**P-19755**	Throttle Lever and Stem
	31	**P-5436**	Throttle Valve **(20°)** **(VAR.)**
	32	**P-16716**	Screw—Throttle Valve Attach.
	40	**P-4522**	Screw—Choke Valve Attach.
	41	**P-18765**	Choke Valve
	42	**P-18314**	Choke Stem and Stop
	44	**P-17893-T**	Main Body 1⅜" Venturi **No. 70** High Speed Bleeder **(VAR.)**
	45	**P-17256**	Throttle Body **No. 56-58** Idle Disch. Holes **(VAR.)**
	46	**P-18331**	Pump Lever
	47	**P-19165**	Pump Rod
	51	**P-18141**	Pump Link
	52	**P-18114**	Cotter Pin—Pump Link
	53	**P-1791**	Lockwasher—Pump Lever Attach. Nut
	54	**P-2290**	Nut—Pump Lever Attach
	55	**P-18126**	Nozzle—Pump Disch **No. 66** **(VAR.)**
	56	**P-18135**	Nut—Pump Piston Adj.
	57	**P-4**	Cotter Pin—Pump Piston and Nut
	58	**P-17067**	Tube Holder (Complete)
		P-17051	Choke Holder
		P-11561	Choke Tube Clamp
		P-12868	Choke Tube Clamp Screw
		P-8806	Choke Tube Clamp Screw Nut
	59	**P-17093**	Screw—Tube Holder Attach.
	60	**P-17058**	Bushing—Choke Lever
	61	**P-17059**	Screw—Choke Lever Bushing
	62	**P-17053**	Choke Lever with Wire Conn. & Screw
		P-12867	Wire Conn. Screw
	63	**P-17132**	Spring—Choke Lever Return
	64	**P-17068**	Spring—Choke Valve Return
	65	**P-17449**	Washer—Choke Stem
	66	**P-6666**	Cotter Pin—Choke Stem
	67	**P-18124-F**	Float Cover
	68	**P-17778**	Gasket—Float Cover
	69	**P-2866**	Screw—Float Cover Attach.
	70	**P-12167**	Lockwasher—Float Cover Attach. Screw
	71	**P-15477**	Idle Air Bleeder—**No. 56** **(VAR.)**
	72	**P-15459**	Plug ¼"
	73	**P-21053**	Plug—Pump Disch. Channel
	74	**P-6387**	Plug—No. 10-32 Idle Disch. Holes

NOTE—For parts marked (VAR.) size must be specified when ordering.

BENDIX PRODUCTS DIVISION
SOUTH BEND **OF BENDIX AVIATION CORPORATION** **INDIANA**

STROMBERG "EE-1" CARBURETOR

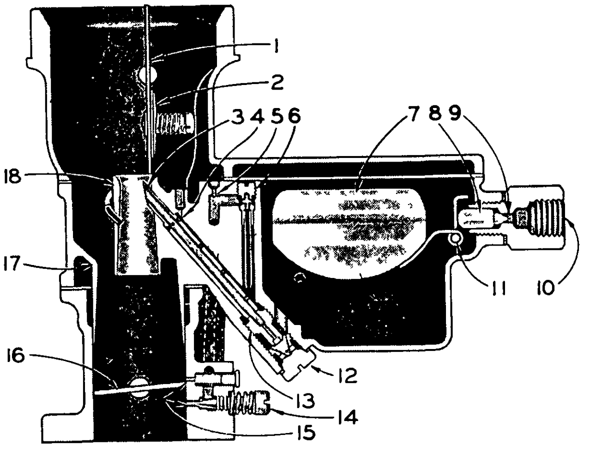
STROMBERG NO. A-17611 (CODE NO. 17-1) AUBURN SYMBOL J-10196

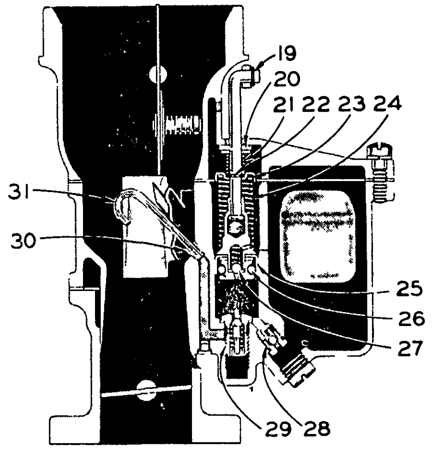
SIZE: 1" DUAL D. D. 3-HOLE FLANGE.

1934-36
AUBURN
MODELS
1934—8-50Y, 1935—8-51
1936—8-52
3-1/16"x4¼"—8 cyl.

PARTS ILLUSTRATED

1. Choke Valve
2. Poppet Valve
3. Main Discharge Jet
4. High Speed Bleeder
5. Idle Air Bleeder
6. Idle Tube
7. Float
8. Float Needle Valve
9. Float Needle Valve Seat
10. Gasoline Inlet
11. Float Fulcrum Pin
12. Main Discharge Jet Plug
13. Main Metering Jet
14. Idle Needle Valve
15. Idle Discharge Holes
16. Throttle Valve
17. Primary Venturi
18. Auxiliary Venturi
19. Pump Link
20. Dust Washer
21. Dust Washer Spring
22. Retainer Washer Lock
23. Duration Spring Retainer Washer
24. Pump Duration Spring
25. Pump Piston
26. Pump Piston Expansion Spring
27. Pump Relief Valve
28. Pump Inlet Check Valve
29. Power By-Pass Jet
30. Pump Discharge Nozzle Holder
31. Pump Discharge





Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **15/32"** below top surface of float chamber (without gasket) at 3 lbs. pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level)

MAIN METERING SYSTEM—Venturi **1-1/32"**; Main Discharge Jet **No. 36** P-19440 **(Tool T-24925)**; High Speed Bleeder **No. 65** (in body); Main Metering Jet **.050"** P-19442 **(Tool T-24924)**; **(Tool T-19099)** used for removing main jet plug; Main Metering System controls the flow of fuel up to approximately 65 to 70 M. P. H.

POWER SYSTEM—Combination Power and Pump By-Pass Jet **No. 61** P-19724 Pump piston to rest on seat of by-pass jet (less over-travel) with throttle valve opened **21/64"** + — **1/64"** (measure with shank end of **21/64"** drill) adjust by bending pump fulcrum arm at ball joint end. The Power Jet is brought into action at approximately 65 to 70 M. P. H.

ACCELERATION—Pump Discharge Nozzles **No. 60**; Pump capacity **11** to **15** c.c. per 10 fast strokes and **17** to **21** c.c. per 10 slow strokes. **(Tool T-24972)** Pump action takes place during acceleration period only.

IDLE SYSTEM—Idle Discharge Holes **Nos. 56-60**; with throttle valve fully closed and **No. 60** drill in idle hole, edge of valve is located **.030"** + — **.006"** from **No. 60** drill; Idle Air Bleed **No. 42** (in main body); Idle Tube **No. 70** P-19424; **Adjustment:** Adjust to smooth running, one barrel at a time, OUT to make richer and IN to make leaner Throttle at 7 to 8 M P H

FLANGE GASKET—P-20466.

SPECIAL TOOLS REQUIRED—T-24733 Float Adjuster; T-24925 Main Discharge Jet Remover; T-24924 Main Metering Jet Wrench; T-24970 By-Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burrette Gauge; T-24968 Handle; T-19099 Main Jet Plug Screw Driver.

MOTOR TUNE-UP DATA

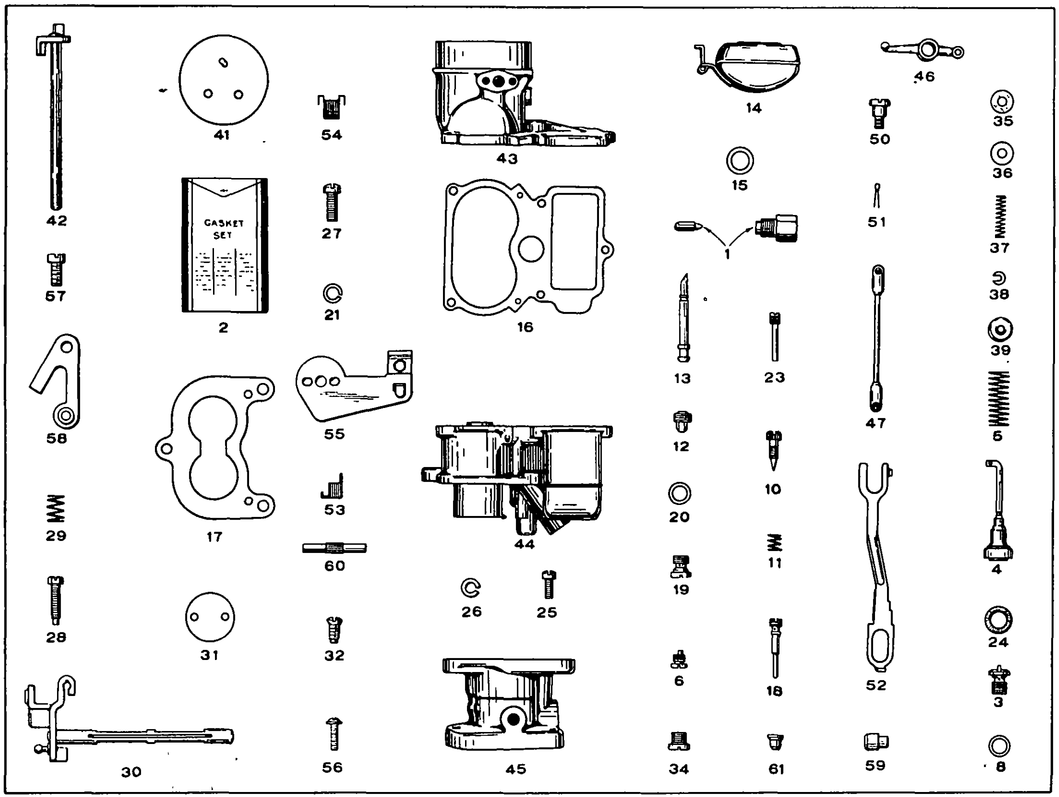
SPARK PLUGS—.025".
Clean and adjust at regular intervals.

DISTRIBUTOR—.015" to .017".
Breaker gap set .015" to .017".
Replace if necessary.

VALVES—Intake: .006" to .008".
Exhaust: .006" to .008". Engine hot.

IGNITION TIMING—Breaker contacts to open for No. 1 cylinder 3° BTDC when flywheel mark is in line with pointer.

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No.	Part No.	Part Name
	1	**P-19867**	Float Needle Valve and Seat .113" **(NOT VAR.)**
	2	**J-4383-G**	Complete Gasket Set
	3	**P-19724**	Power By-Pass Jet No. 61 **(NOT VAR.)**
	4	**P-19486**	Pump Piston and Link **(Includes P-16960 Spring)**
	4-A	**P-19525**	Pump Piston, Link and Spring (Complete)
	5	**P-19526**	Spring—Pump Duration
	6	**P-18144**	Pump Inlet Check Valve
	8	**P-19448**	Gasket—By-Pass Jet
	10	**P-17402**	Idle Needle Valve
	11	**P-15481**	Spring—Idle Needle Valve
	12	**P-19442**	Metering Jet **.050"** **(VAR.)**
	13	**P-19440**	Main Disch. Jet No. 36 **(NOT VAR.)**
	14	**P-19825**	Float with Lever
	15	**P-10666**	Gasket—Float Needle Valve Seat
	16	**P-19428**	Gasket—Air Horn
	17	**P-19432**	Gasket—Main Body
	18	**P-19424**	Idle Tube No. 70 **(NOT VAR.)**
	19	**P-19441**	Plug—Main Disch. Jet
	20	**P-7338**	Gasket—Main Disch. Jet & Check Valve Plug
	21	**P-3157**	Lockwasher—Main Body Attach. Screw
	23	**P-18125**	Screw—Fulcrum—Float Lever
	24	**P-16960**	Spring—Pump Piston Leather Expansion
	25	**P-3199**	Screw—Air Horn Attach.
	26	**P-1791**	Lockwasher—Air Horn Attach. Screw
	27	**P-709**	Screw—Main Body Attach.
	28	**P-19103**	Screw—Throttle Stop
	29	**P-15831**	Spring—Throttle Stop Screw
	30	**P-20462**	Throttle Lever and Stem
		P-19509	Ball Joint
	31	**P-19435**	Throttle Valve (5°) **(VAR.)**
	32	**P-4522**	Screw—Choke Valve & Throttle Valve Attach.
	34	**P-19716**	Plug—Check Valve
	35	**P-17380**	Washer—Felt

NOTE: For parts marked (VAR.) size must be specified when ordering.

Bin Location	Key No.	Part No.	Part Name
	36	**P-17060**	Washer—Splash—Pump Link
	38	**P-19459**	Washer—Cup
	37	**P-19488**	Spring—Packing Retainer
	39	**P-19460**	Washer—Spring Retainer
	41	**P-19746**	Choke Valve
	42	**P-19753**	Choke Stem and Lever
	43	**P-19748**	Air Horn with Bushing
		P-17996	Bushing—Air Horn
	43-A	**P-19726**	Assy.—Air Horn with Valve
	44	**P-19421**	Main Body 1-1/32" Venturi **No. 65** H. S. Bleeder with **No. 60** Pump Disch. Tube **(VAR.)**
		P-19429	Pump Disch. Tube Right and Left
		P-19430	Pump Tube Wedge
	45	**P-19519**	Throttle Body with Bushing **No. 56-60** Idle Disch. Holes **(VAR.)**
		P-19502	Bushing—Throttle Body
	46	**P-19533**	Lever—Pump
	47	**P-19420**	Pump Rod
	50	**P-19433**	Screw—Pump Lever Fulcrum
	51	**P-7170**	Cotter Pin—Pump Lever and Pump Link
	52	**P-20460**	Fast Idle Link with Cam
	53	**P-17068**	Spring—Choke Valve Return
	54	**P-17132**	Spring—Choke Lever Return
	55	**P-17067**	Assy.—Tube Holder
		P-17051	Choke Holder
		P-11561	Choke Tube Clamp
		P-12868	Choke Tube Clamp Screw
		P-8806	Choke Tube Clamp Screw Nut
	56	**P-17059**	Screw—Choke Lever Bushing
	57	**P-17093**	Screw—Tube Holder Attach.
	58	**P-17053**	Lever Choke with Wire Conn. & Screw
		P-12867	Wire Conn. Screw
	59	**P-17058**	Bushing—Choke Lever
	60	**P-19501**	Pin-Fast Idle Cam Lift
	61	**P-15458**	Plug—Idle Disch. Holes

BENDIX PRODUCTS DIVISION
SOUTH BEND **OF BENDIX AVIATION CORPORATION** **INDIANA**

STROMBERG SF-3 CARBURETOR

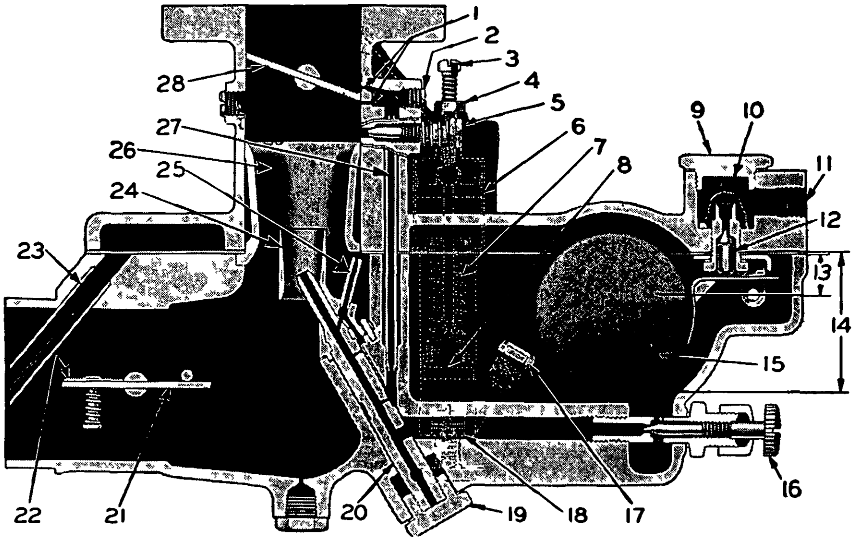
FOR STROMBERG NUMBER, CODE NUMBER, MANUFACTURER'S SYMBOL NUMBER, MODEL, BORE AND STROKE INFORMATION SEE PARTS PAGE

SIZE 1-1/2" UPDRAFT, S A E 2-15/16" FLANGE CENTERS

Auto-Car

PARTS ILLUSTRATED

1 Idle Discharge Holes
2 Idle Discharge Plug
3 Pump Adjustment Screw
4 Pump Adjustment Lock Screw
5. Idle Needle Valve
6 Vacuum Piston
7 Accelerating Pump Spring
8 Accelerating Pump Piston
9 Strainer Plug
10 Strainer
11 Gasoline Inlet
12 Float Needle Valve and Seat
13 Fuel Level (see instructions)
14 Float Setting (see instructions)
15 Float
16 Adjustable Metering Jet
17 Check Valve
18 Combination Power and Pump By Pass Jet
19 Main Discharge Jet Nut
20 Main Discharge Jet
21 Choke Valve
22 Choke Poppet Valve
23 Vent Tube
24 Small Venturi
25 High Speed Bleed
26 Large Venturi
27 Idle Tube
28 Throttle Valve



Main Metering System—

The main metering system controls the flow of the fuel during the intermediate speed of the engine Fuel enters the carburetor through the gasoline inlet (11) into the float chamber From here the gasoline passes through the metering jet (16) which controls the supply of fuel for the main metering system, to the main discharge jet (20) The main discharge jet delivers the fuel to the small venturi (24) (auxiliary venturi) where it is mixed with air and flows into the carburetor barrel The amount of air used in the mixture is controlled by the large venturi (26) (When replacing main discharge jet use new P 21372 gasket)

Power System—

For maximum power or higher speeds a richer mixture is needed This is accomplished by the power system During the intermediate speed of the engine sufficient fuel is furnished by the main metering jet However for hard pulls and wide open throttle this supply is not equivalent to the engine demands, therefore another valve comes into operation to supply this extra amount of gasoline needed While the engine runs at a moderate speed a certain amount of manifold vacuum is created This vacuum holds vacuum piston (6) in an up position but when the throttle is opened above normal to compensate for the extra power that may be needed from the engine the vacuum falls off accordingly and the vacuum piston drops until the pump piston (8), which is directly connected to the vacuum piston comes in contact with and opens the valve in the by pass jet (18) The opening of this valve allows an additional amount of gasoline to enter the main discharge jet and enrichens the mixture This is known as the Power System

Accelerating System—

As explained above, the vacuum piston of the pump is held in an up position by the manifold vacuum created by the engine On sudden opening of the throttle the vacuum drops off very rapidly and the vacuum piston (6) is released When this occurs accelerating pump spring (7) forces pump piston (8) down which in turn forces a discharge of gasoline to be driven through the by pass jet (18) and out the main discharge jet This sudden surplus of fuel enrichens the mixture for the moment and furnishes the engine the extra power needed for fast acceleration The amount of discharge can be controlled by the adjustment screw (3) Turn screw IN to lessen, OUT to make greater

Idle System—

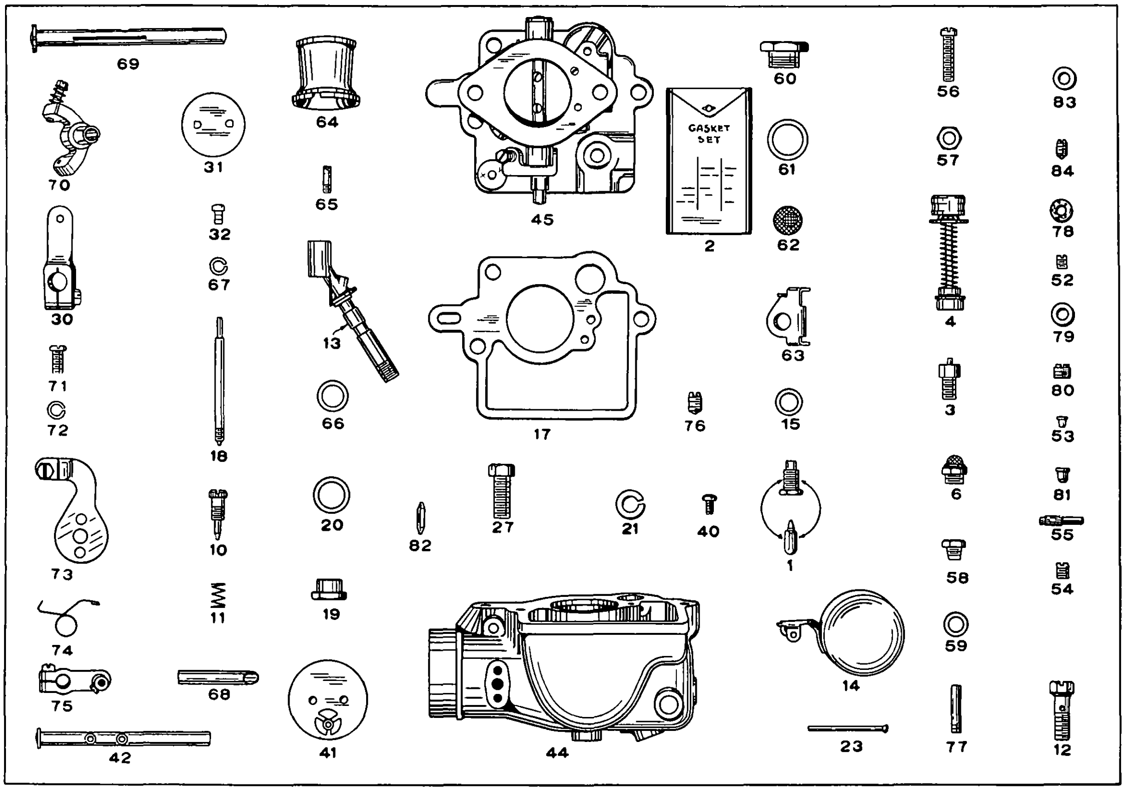
When the throttle valve is closed gasoline is delivered to the engine by means of the idle system of the carburetor Gasoline is taken up through the idle tube (27) which meters the quantity of fuel for the idle system It is mixed with air, the amount of which is governed by the idle needle valve (5) and reaches the engine by means of the idle holes (1) and up through the barrel of the carburetor To make the mixture richer turn idle needle valve (5) **IN**, to make mixture leaner screw **OUT.**

Fuel Level—

The gasoline level in the float chamber is properly set at the factory and should not be adjusted unless carburetor has been handled roughly or level has been changed for some other cause For measuring fuel level it is advisable to use an open vessel with a leveled top, large enough to support the throttle valve body and to accommodate the float assembly Place main body gasket between body and vessel before checking Connect gas line to inlet in throttle body and allow gas to feed into measuring vessel at the fuel pump pressure until flow is stopped by the closing of the float needle valve Fuel level should measure (see parts page) below top surface of vessel (without gasket) Use standard depth gauge for measuring fuel level To correct fuel level hold throttle body in inverted position and set float to measure (see parts page) from top of float (14) to gasket surface of throttle body, which will give approximate fuel level

MOTOR TUNE-UP DATA

Due to the number of Carburetor Specifications for various engines covered herein it is impossible to give Standard Motor Tune-up Data.



SERVICE REPLACEMENT PARTS LIST

Key No	Part Name	
1	Float Needle Valve and Seat	(NOT VAR)
2	Complete Gasket Set	
3	By Pass Jet	(VAR)
4	Pump Piston Assy	
6	Check Valve	
10	Idle Needle Valve	
11	Spring—Idle Needle Valve	
12	Metering Jet	(VAR)
13	Main Discharge Jet	(VAR)
14	Float	
15	Gasket—Float Needle Valve Seat	
17	Gasket—Main Body	
18	Idle Needle Valve	
19	Nut—Main Discharge Jet	
20	Gasket—Main Discharge Jet Nut	
21	Lockwasher—Main Body Attach Screw	
23	Fulcrum Pin—Float	
27	Screw—Main Body Attach	
30	Throttle Lever	
	Screw—Clamp	
31	Throttle Valve	
32	Screw—Throttle and Choke Valve Attach	
41	Choke Valve	
42	Choke Stem	
44	Main Body	
45	Throttle Body (complete with idle holes throttle valve & stem)	(VAR)
*51	Union	
52	Plug—Vacuum Suction Hole	
53	Plug—Pump Channel	
54	Plug—Idle Discharge Hole	
55	Pin—Choke Valve Stop	

Key No	Part Name	
56	Screw—Pump Adj	
57	Nut—Pump Adj Screw	
58	Plug—Gas Inlet	
59	Gasket—Metering Jet	
60	Plug—Strainer	
61	Gasket—Strainer Plug	
62	Strainer—Gasoline	
63	Hanger—Float	
64	Venturi	(VAR)
65	Pin—Main Discharge Jet Locating	
66	Gasket—Main Discharge Jet	
67	Lockwasher—Valve Attach Screw	
68	Vent Tube	
69	Throttle Stem	
70	Throttle Stop	
71	Screw—Tube Holder Attach	
72	Lockwasher—Tube Holder Attach Screw	
73	Tube Holder	
	Screw—Clamp	
74	Spring—Choke Lever Return	
75	Choke Lever	
76	Set Screw—Vent Tube	
77	H S Bleed	(VAR)
78	Gasket—Idle Tube—Cork	
79	Washer—Idle Tube	
80	Plug—Governor Conn	
81	Plug—Idle Discharge Drilling Hole	
82	Pin—Choke Stem Separator	
83	Collar—Choke Stem	
84	Set Screw—Choke Stem Collar	

*Parts Not Illustrated

BENDIX PRODUCTS DIVISION
SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

Printed in U S A

KEY NO	A-16683 AUTO CAR Symbol No. 6-RE-050 Code No. 31-1A 3-3/4" x 4-3/4"—6 cyl. OWN RE	A-17133 1932 AUTO CAR Symbol No. 6-DO-50 Code No. 31-2 3-3/4" and 4" x 4-3/4"—6 cyl. OWN RE and SD	A-17783 AUTO CAR Symbol No. 6-RG-450-A Code No. 31-20B	A-17973 AUTO CAR Symbol No. 60-450-B Code No. 31-26A 3-3/4" x 4"—6 cyl.
1	P-17282	P-17282	P-17282	P-17282
2	J-4221-G	J-4221-G	J-4221-G	J-4221-G
3	P-16786—.032"	P-16786—.032"	P-16786—.032"	P-16786—.036"
4	P-23129	P-16856	P-23129	P-23129
6	P-23135	P-16990	P-23135	P-23135
10	P-15396	P-15396	P-15396	P-15396
11	P-12530	P-12530	P-12530	P-12530
12	P-15384—.055"	P-15384—.057"	P-15384—.056"	P-15384—.060"
13	P-16863—**No. 28**	P-16863—**No. 28**	P-16863—**No. 28**	P-16863—**No. 28**
14	P-16851	P-16851	P-16851	P-16851
15	P-11572	P-11572	P-11572	P-11572
17	P-16844	P-16844	P-16844	P-16844
18	P-17745—**No. 70**	P-16847—**No. 68**	P-16847—**No. 68**	P-16847—**No. 68**
19	P-16762	P-16762	P-16762	P-16762
20	P-5636	P-5636	P-5636	P-5636
21	P-5364	P-5364	P-5364	P-5364
23	P-16760	P-16760	P-16760	P-16760
27	P-16849	P-16849	P-16849	P-16849
30	P-16062	P-16062	P-21588	P-21588
	P-15817	P-15817	P-15817	P-15817
31	P-12251	P-12251	P-12251	P-12251
32	P-15259	P-15259	P-15259	P-15259
41	P-16859	P-16859	P-21758	P-21758
42	P-16868	P-16868	P-21756	P-21756
44	P-16843	P-16843	P-19903	P-19903
45	382326—**No. 58-66**	382332—**No. 58-65**	382333—**No. 58-66**	382334—**No. 58-66**
*51	P-3222	P-3222	P-3222	P-3222
52	P-7098	P-7098	P-7098	P-7098
53	P-15458	P-15458	P-15458	P-15458
54	P-12780	P-12780	P-12780	P-12780
55	P-16764	P-16764	P-16764	P-16764
56	P-8898	P-8898	P-19911	P-19911
57	P-14618	P-14618	P-14618	P-14618
58	P-26	P-26	P-26	P-26
59	P-6855	P-6855	P-6855	P-6855
60	P-17140	P-17140	P-17140	P-17140
61	P-20235	P-20235	P-20235	P-20235
62	P-12958	P-12958	P-12958	P-12958
63	P-16761	P-16761	P-16761	P-16761
64	P-16845—**1-3/16"**	P-16845—**1-3/16"**	P-16845—**1-3/16"**	P-16845—**1-1/4"**
65	P-16850	P-16850	P-16850	P-16850
66	P-21372	P-21372	P-21372	P-21372
67	P-1693	P-1693	P-1693	P-1693
68	P-16848	P-16848	P-16848	P-16848
69	P-16866	P-16866	P-21592	P-21592
70	P-16795	P-18449	P-21590	P-21590
	P-18552	P-18552	P-18552	P-18552
	P-15831	P-15831	P-15831	P-15831
71	P-16766	P-16766	P-16766	P-16766
72	P-3157	P-3157	P-3157	P-3157
73	P-16805	P-16805	P-16805	P-16805
	P-16807	P-16807	P-16807	P-16807
74	P-16763	P-16763	P-16763	P-16763
75	P-16799	P-16799	P-16799	P-16799
	P-13046	P-13046	P-13046	P-13046
	P-18927	P-18927	P-18927	P-18927
76	P-14745	P-14745	P-14745	P-14745
77	P-14334—**No. 65**	P-14334—**No. 65**	P-14334—**No. 65**	P-14334—**No. 65**
78	P-14160	P-14160	P-14160	P-14160
79	P-22713	P-22713	P-22713	P-22713
80	P-3292	P-3292	P-3292	P-3292
81	P-15459	P-6406	P-15459	P-15459
82			P-3881	P-3881
83			P-19901	P-19901
84			P-16161	P-16161
*Parts	Not Illustrated.			
	Fuel Pressure—2 lbs. Fuel Level—7/8". Throttle Valve Location—Lower edge of throttle valve to be flush + — .004" from No. 58 idle hole.	Fuel Pressure—2 lbs. Fuel Level—7/8". Throttle Valve Location—Lower edge of throttle valve to be flush + — .004" from No. 58 idle hole.	Fuel Pressure—2 lbs. Fuel Level—7/8". Throttle Valve Location—Lower edge of throttle valve to be flush + — .004" from No. 58 idle hole.	Fuel Pressure—2 lbs. Fuel Level—7/8". Throttle Valve Location—Lower edge of throttle valve to be flush + — .003" from No. 58 idle hole.

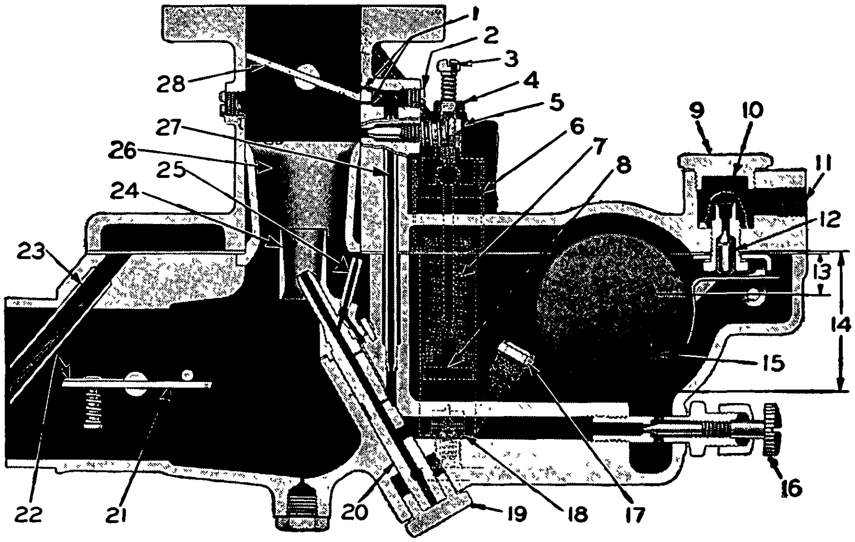
STROMBERG SF-4 CARBURETOR

FOR STROMBERG NUMBER, CODE NUMBER, MANUFACTURER'S SYMBOL NUMBER, MODELS, BORE AND STROKE INFORMATION SEE PARTS PAGE

SIZE: 1-3/4" UPDRAFT 3-5/16" FLANGE CENTERS

PARTS ILLUSTRATED

1. Idle Discharge Holes
2. Idle Discharge Plug
3. Pump Adjustment Screw
4. Pump Adjustment Lock Screw
5. Idle Needle Valve
6. Vacuum Piston
7. Accelerating Pump Spring
8. Accelerating Pump Piston
9. Strainer Plug
10. Strainer
11. Gasoline Inlet
12. Float Needle Valve and Seat
13. Fuel Level (see instructions)
14. Float Setting (see instructions)
15. Float
16. Adjustable Metering Jet
17. Check Valve
18. Combination Power and Pump By-Pass Jet
19. Main Discharge Jet Nut
20. Main Discharge Jet
21. Choke Valve
22. Choke Poppet Valve
23. Vent Tube
24. Small Venturi
25. High Speed Bleed
26. Large Venturi
27. Idle Tube
28. Throttle Valve



Main Metering System—

The main metering system controls the flow of the fuel during the intermediate speed of the engine. Fuel enters the carburetor through the gasoline inlet (11) into the float chamber. From here the gasoline passes through the metering jet (16) which controls the supply of fuel for the main metering system, to the main discharge jet (20). The main discharge jet delivers the fuel to the small venturi (24) (auxiliary venturi) where it is mixed with air and flows into the carburetor barrel. The amount of air used in the mixture is controlled by the large venturi (26). (When replacing main discharge jet use new P-21372 gasket.)

Power System—

For maximum power or higher speeds a richer mixture is needed. This is accomplished by the power system. During the intermediate speed of the engine sufficient fuel is furnished by the main metering jet. However for hard pulls and wide open throttle this supply is not equivalent to the engine demands; therefore another valve comes into operation to supply this extra amount of gasoline needed. While the engine runs at a moderate speed a certain amount of manifold vacuum is created. This vacuum holds vacuum piston (6) in an up position but when the throttle is opened above normal to compensate for the extra power that may be needed from the engine the vacuum falls off accordingly and the vacuum piston drops until the pump piston (8), which is directly connected to the vacuum piston, comes in contact with and opens the valve in the by-pass jet (18). The opening of this valve allows an additional amount of gasoline to enter the main discharge jet and enrichens the mixture. This is known as the Power System.

Accelerating System—

As explained above, the vacuum piston of the pump is held in an up position by the manifold vacuum created by the engine. On sudden opening of the throttle the vacuum drops off very rapidly and the vacuum piston (6) is released. When this occurs accelerating pump spring (7) forces pump piston (8) down which in turn forces a discharge of gasoline to be driven through the by-pass jet (18) and out the main discharge jet. This sudden surplus of fuel enrichens the mixture for the moment and furnishes the engine the extra power needed for fast acceleration. The amount of discharge can be controlled by the adjustment screw (3). Turn screw IN to lessen, OUT to make greater.

Idle System—

When the throttle valve is closed gasoline is delivered to the engine by means of the idle system of the carburetor. Gasoline is taken up through the idle tube (27) which meters the quantity of fuel for the idle system. It is mixed with air, the amount of which is governed by the idle needle valve (5) and reaches the engine by means of the idle holes (1) and up through the barrel of the carburetor. To make the mixture richer turn idle needle valve (5) **IN**, to make mixture leaner screw **OUT.**

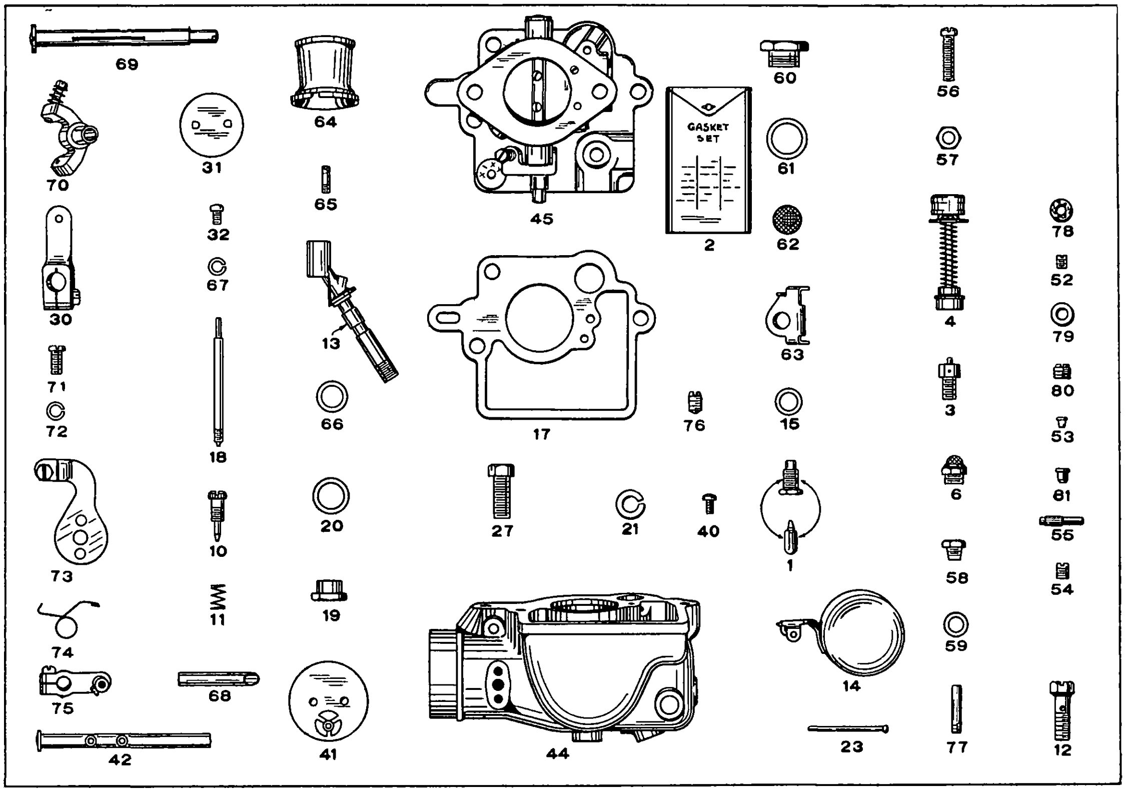
Fuel Level—

The gasoline level in the float chamber is properly set at the factory and should not be adjusted unless carburetor has been handled roughly or level has been changed for some other cause. For measuring fuel level it is advisable to use an open vessel with a leveled top, large enough to support the throttle valve body and to accommodate the float assembly. Place main body gasket between body and vessel before checking. Connect gas line to inlet in throttle body and allow gas to feed into measuring vessel at the fuel pump pressure until flow is stopped by the closing of the float needle valve. Fuel level should measure (see parts page) below top surface of vessel (without gasket). Use standard depth gauge for measuring fuel level. To correct fuel level hold throttle body in inverted position and set float to measure (see parts page) from top of float (14) to gasket surface of throttle body, which will give approximate fuel level.

MOTOR TUNE-UP DATA

Due to the number of Carburetor Specifications for various engines covered herein it is impossible to give Standard Motor Tune-up Data.

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Key No.	Part Name	
1	Float Needle Valve and Seat	(NOT VAR)
2	Complete Set of Gaskets	
3	By Pass Jet	(VAR)
4	Pump Assembly	
6	Pump Inlet Check Valve	
10	Idle Needle Valve	
11	Spring—Idle Needle Valve	
12	Metering Jet	(VAR)
13	Main Discharge Jet	(VAR)
14	Float	
15	Gasket—Float Needle Valve Seat	
17	Gasket—Main Body	
18	Idle Tube	
19	Nut—Main Discharge Jet	
20	Gasket—Main Discharge Jet Nut	
21	Lockwasher—Main Body Attach Screw	
*22	Lead Ball	
23	Fulcrum Pin—Float	
27	Screw—Main Body Attach	
30	Throttle Lever	
	Screw—Clamp	
31	Throttle Valve	
32	Screw—Throttle Valve Attach	
40	Screw—Choke Valve Attach	
41	Choke Valve	
42	Choke Stem	
44	Main Body	
45	Throttle Body (complete with idle holes throttle valve & stem)	(VAR)
*51	Union	
52	Plug—Vacuum Suction Channel	
53	Plug—Pump Channel	
54	Plug—Idle Discharge Holes	
55	Pin—Choke Valve Stop	

Key No	Part Name	
56	Screw—Pump Adj	
57	Nut—Pump Adj Screw	
58	Plug—Gas Inlet	
59	Gasket—Metering Jet	
60	Plug—Gasoline Strainer	
61	Gasket—Gasoline Strainer Plug	
62	Strainer—Gasoline	
63	Hanger—Float	
64	Venturi	(VAR)
65	Pin—Main Discharge Jet Locating	
66	Gasket—Main Discharge Jet	
67	Lockwasher—Valve Attach Screw	
68	Vent Tube	
69	Throttle Stem	
70	Throttle Stop	
	Screw—Idle Adj	
	Spring—Idle Adj Screw	
71	Screw—Choke Tube Holder Attach	
72	Lockwasher—Choke Tube Holder Attach Screw	
73	Tube Holder	
	Screw—Clamp	
74	Spring—Choke Lever Return	
75	Choke Lever	
	Screw—Wire Conn	
	Screw—Clamp	
76	Set Screw—Vent Tube	
77	H S Bleeder	(VAR)
78	Gasket—Cork—Idle Tube	
79	Washer—Idle Tube	
80	Plug—Governor Conn	
81	Plug—Idle Discharge Drilling Hole	

*Parts Not Illustrated

BENDIX PRODUCTS DIVISION
SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

KEY NO	A-16684 1932 AUTO CAR Code No 21-3A 4-1/4″ and 4-1/2″ x 4-3/4″—6 cyl OWN SCH, SCM	A-17694 1935 AUTO CAR Symbol No 6-CB-450A Code No 31-17B 4-1/2″ x 5-1/4″—6 cyl	A-17724 AUTO CAR Symbol No 6-TF-450 Code No 31-33
1	P 18811	P 18811	P 18811
2	J 4270 G	J 4270 G	J 4270-G
3	P 16786—**.050″**	P 16786—**.058″**	P 16786—**.050″**
4	P 23126	P 23126	P 23126
6	P 23135	P 23135	P 23135
10	P 15396	P 15396	P 15396
11	P 12530	P 12530	P 12530
12	P 15384— **063″**	P 15384—**.063″**	P 15384—**.063″**
13	P 17250—**No. 28**	P 17250—**No. 28**	P 17250—**No 28**
14	P 17501	P 17501	P 17501
15	P 14364	P 14364	P 14364
17	P 17496	P 17496	P 17496
18	P 17497—**No. 66**	P 19888—**No. 68**	P 17497—**No. 66**
19	P 16762	P 16762	P 16762
20	P 5636	P 5636	P 5636
21	P 5364	P 5364	P 5364
*22		P 18772	P 18772
23	P 16760	P 16760	P 16760
27	P 16849	P 16849	P 16849
30	P 13498	P 14298	P 14298
	P 15817	P 15817	P 15817
31	P 23225—**20°**	P 23225—**20°**	P 23225—**20°**
32	P 285	P 285	P 285
40	P 15259	P 15259	P 15259
41	P 17515	P 17515	P 17515
42	P 17517	P 17517	P 17517
44	P 17494	P 17494	P 17494
45	382330—**No. 54-60**	P 24841—**No. 54-60**	382331—**No. 54-60**
*51	P 755	P 755	P 755
52	P 7098	P 7098	P 7098
53	P 15458	P 15458	P 15458
54	P 12780	P 12780	P 12780
55	P 16764	P 16764	P 16764
56	P 19911	P 19911	P 19911
57	P 14618	P 14618	P 14618
58	P 8387	P 8387	P 8387
59	P 6855	P 6855	P 6855
60	P 17140	P 17140	P 17140
61	P 20235	P 20235	P 20235
62	P 12958	P 12958	P 12958
63	P 17500	P 17500	P 17500
64	P 17498—**1-9/32″**	P 17498—**1-3/8″**	P 17498—**1-9/32″**
65	P 16850	P 16850	P 16850
66	P 21372	P 21372	P 21372
67	P 1693	P 1693	P 1693
68	P 17499	P 17499	P 17499
69	P 17519	P 17519	P 17519
70	P 16795	P 16795	P 16795
	P 18552	P 18552	P-18552
	P 15831	P 15831	P 15831
71	P 16766	P 16766	P 16766
72	P 3157	P 3157	P 3157
73	P 17920	P 17920	P 17920
	P 16807	P 16807	P 16807
74	P 17468	P 17468	P 17468
75	P 16799	P 16799	P 16799
	P 13046	P 13046	P 13046
	P 18927	P 18927	P 18927
76	P 14745	P 14745	P-14745
77	P 16320—**No. 65**	P 16320—**No. 65**	P 16320—**No. 65**
78	P 14160	P 14160	P 14160
79	P 22713	P 22713	P 22713
80	P 3292	P 3292	P 3292
81	P-15459	P-15459	P 15459
*Parts	Not Illustrated		
	Fuel Pressure—2 lbs Fuel Level—7/8″ Throttle Valve Location—Lower edge of throttle valve to be flush +— 004″ from No 54 idle hole	Fuel Pressure—2 lbs Fuel Level—7/8″ Throttle Valve Location—Throttle valve to cover No 54 idle so a No 57 to No 64 drill can pass	Fuel Pressure—2 lbs Fuel Level—7/8″ Throttle Valve Location—Lower edge of throttle valve to be flush +— 004″ from No 54 idle hole

BENDIX STROMBERG BULLETIN

IMPORTANT - READ CAREFULLY AND FILE TECHNICAL

BULLETIN No. S-3402-1941

DATE April 24, 1941

SUBJECT: 1941 Buick Compound Carburetors

To: Stromberg Distributors, Associate-Distributors, Dealers & Catalog Holders

There have been a number of improvements developed for the front and rear carburetors of the 1941 Buick Compound Installation. The results are improved hot starting and better idling performance. Carburetors in the field are being changed by the Buick Dealers and parts are being furnished to them by the Buick Zone Offices. We will not furnish any of these parts to our distributors on a no-charge or memo basis. These changes are being sent to you for your records so that they can be incorporated in the units when you have occasion to repair them.

- -

The changes for both the front and rear units of the Series 40 and 50 installation are:

#382806	Idle Tubes #65
#65	Idle Air Bleed in Main Body (instead of #70)
#58	Second Idle Discharge Hole (instead of #60)
#46	External Float Chamber Vent (See Sketch)

New Code numbers for units with latest change:
Front-Code 7-42B (Carb. #380042) - Rear-Code 7-43A (Carb.#380043)

- -

The changes for the front and rear units of the Series 60-70-90 installation are:
Same as for Series 40-50 except
#60 Idle Air bleed (instead of #70 in main body)

New code numbers for units with latest change:
Front 7-39B (Carb. #380032) - Rear 7-41A (Carb. #380034)

- -

Production:
New units are being made up for production installation. These units have the foregoing changes incorporated in them; however, the design of the float chamber venting is slightly different than the service change. The numbers of the carburetors and their code numbers are:

40-50 Series (Front: #380066 code 7-46
(Rear: #380067 code 7-47

60-70-90 Series (Front: #380064 code 7-44
(Rear: #380065 code 7-45

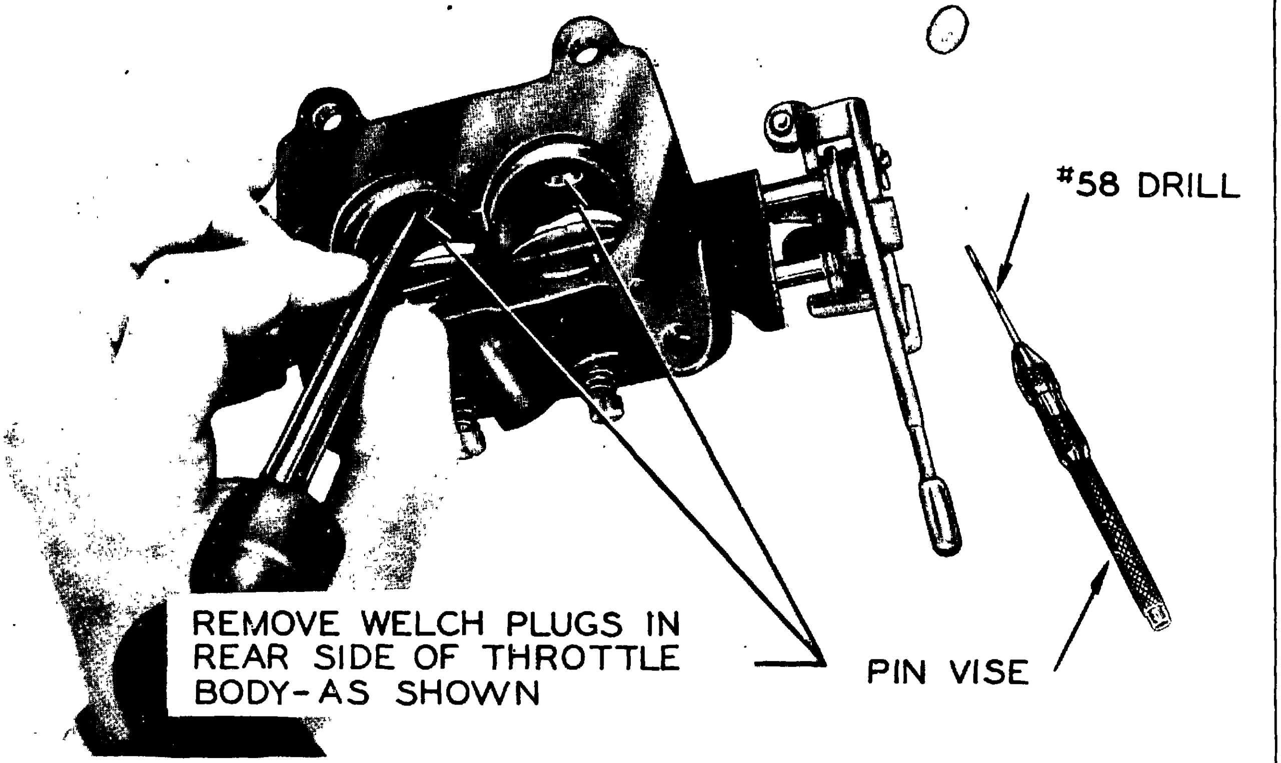
Regular catalog pages on these units will be issued at a later date. In the meantime this bulletin should be filed in the Buick Section of your manual for reference.

BENDIX PRODUCTS DIVISION

E. F. Wenzel

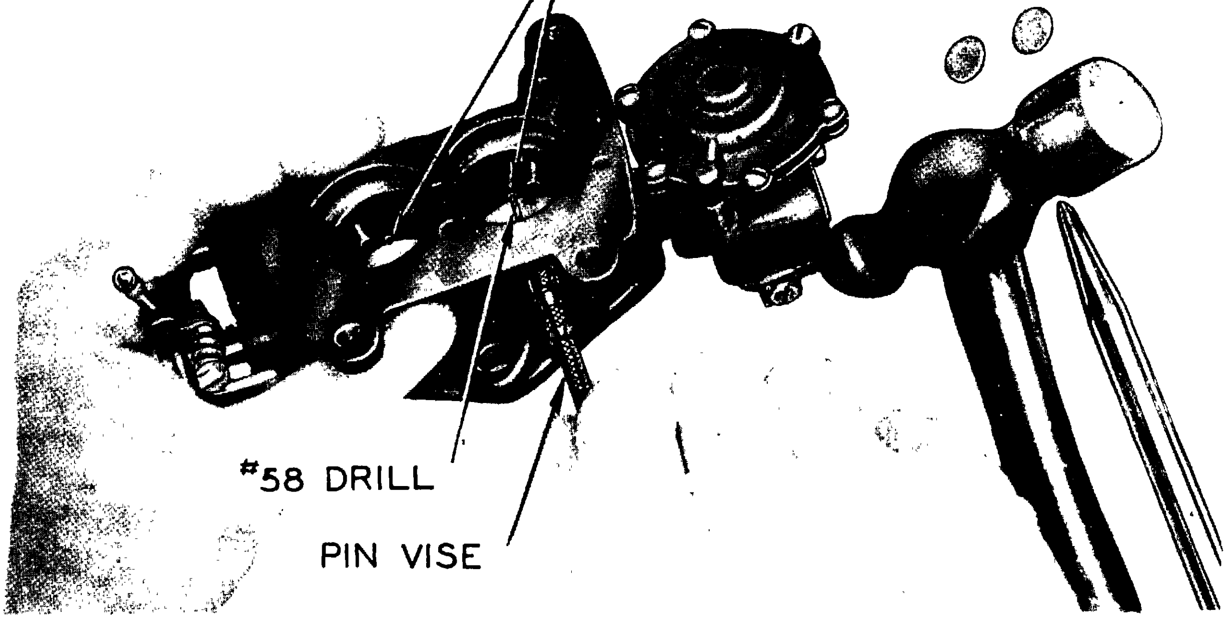
E. F. Wenzel
Service Sales Department

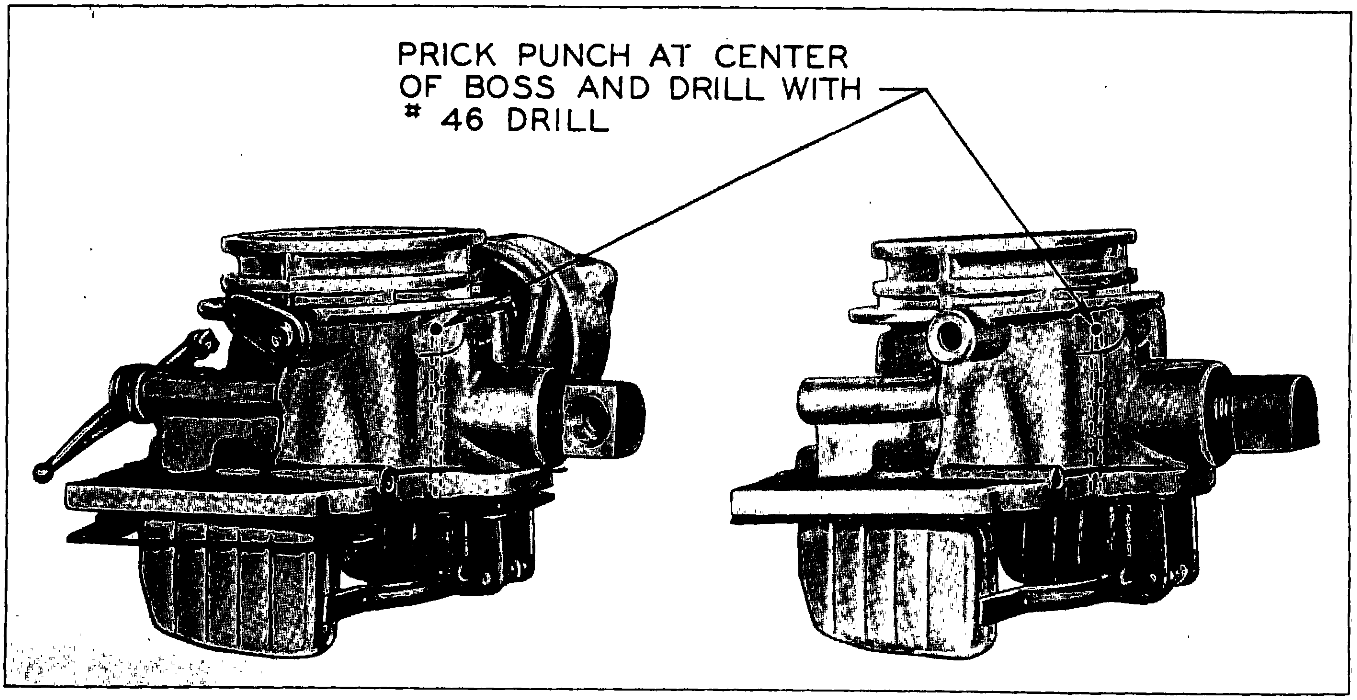
EFW:mep
cw
f
Att.



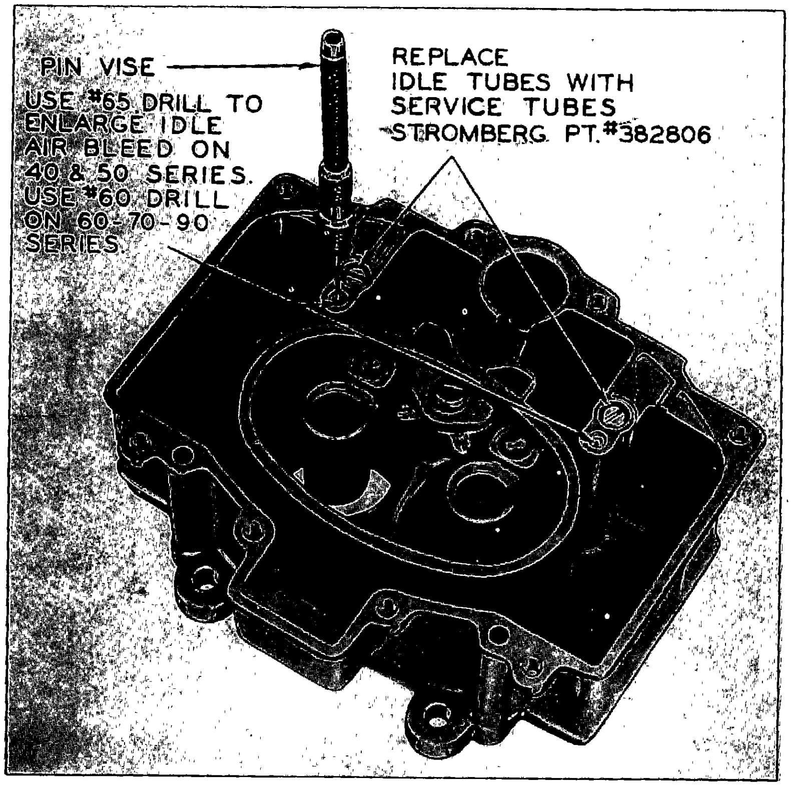
REMOVE WELCH PLUGS IN REAR SIDE OF THROTTLE BODY-AS SHOWN

DRILL SECONDARY IDLE DISCHARGE HOLES TO # 58 DRILL SIZE





PRICK PUNCH AT CENTER OF BOSS AND DRILL WITH # 46 DRILL



USE #65 DRILL TO ENLARGE IDLE AIR BLEED ON 40 & 50 SERIES. USE #60 DRILL ON 60-70-90 SERIES.

REPLACE IDLE TUBES WITH SERVICE TUBES STROMBERG PT. #382806

AUTOMATIC CHOKE CONTROL

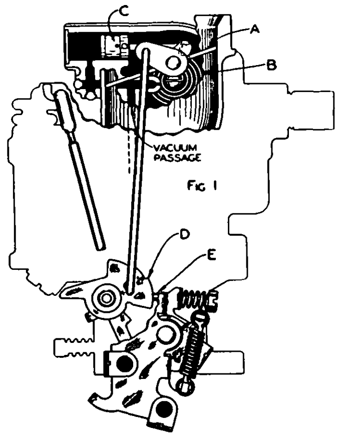
OPERATION AND ADJUSTMENTS

For Choke Units on Buick AAV-16 and AAV-26 Carburetors

BUICK
CHOKE
CONTROLS

GENERAL DESCRIPTION

The automatic choke control is built into a housing integral with the carburetor. The principles used in the operation of the automatic choke are manifold vacuum, thermostat spring, and an offset choke valve in the carburetor The vacuum piston and thermostat are directly connected to the carburetor choke valve and accurately control the opening and closing of the choke valve under varying operating temperatures and at various throttle positions. A tube leading from the exhaust manifold to the thermostat chamber transmits heat to govern the tension of the thermostat spring. A fast idle cam operating in conjunction with the automatic choke provides the proper throttle opening for a cold engine and thereby prevents the engine from stalling during the warming up period.

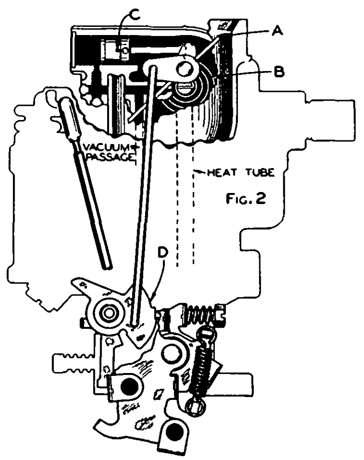


CHOKE CLOSED—FAST IDLE—COLD ENGINE

When the engine becomes cold, the thermostat also cools and gradually gains sufficient tension to partially close the choke valve "A." As soon as the accelerator pedal is depressed to start the engine, the throttle is partially opened so that the throttle stop screw "E" is lifted away from fast idle cam "D." This permits the choke valve to close in accordance with the thermostat tension. The throttle stop screw then comes to rest on a higher lobe of the fast idle cam after the engine is running, providing the proper throttle opening for the prevailing engine temperature. FIG 1 shows the position of the choke and fast idle mechanism during the cranking period. The choke valve "A" is held in closed position during this operation by the tension of the thermostat "B"

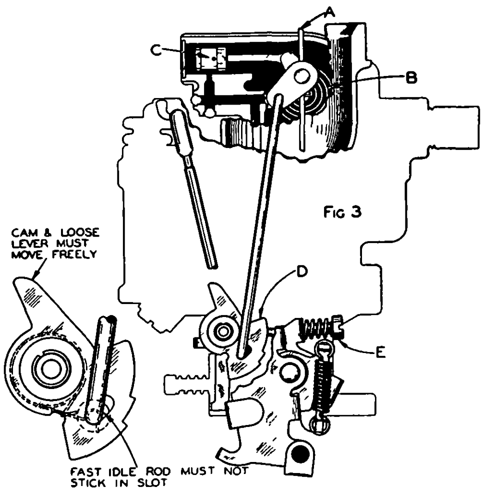
Important—On carburetors that have the "Start Aid" Feature as shown in FIG. 5 incorporated on the carburetor it is imperative the following instructions be followed to obtain best results when starting engine.

For starting an engine that is cold enough to require full closing of the choke valve, additional tension takes place in the throttle hook-up after the accelerator pedal engages the starter. When starting the engine, the accelerator pedal should be depressed only to the point where the additional tension is noticeable. Moving pedal beyond this point will have a tendency to partially open the choke valve to admit sufficient air to clear manifold if the engine should have become flooded



CHOKE PARTIALLY OPENED—ENGINE RUNNING—WARMING UP PERIOD

When the engine begins to fire, the manifold vacuum thus created pulls the vacuum piston "C," opening the choke valve "A" against the tension of the thermostat spring "B" Sufficient air is thereby admitted to give a satisfactory running mixture. As the choke valve opening is increased, the fast idle cam is allowed to revolve so that the throttle stop screw comes to rest on a lower step when the throttle is opened and then permitted to close. FIG. 2.


A
C
B
FIG 3
CAM & LOOSE LEVER MUST MOVE FREELY
D
E
FAST IDLE ROD MUST NOT STICK IN SLOT

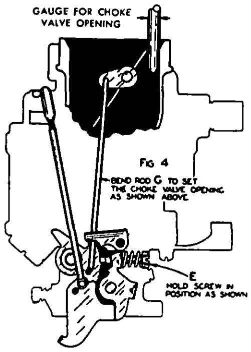
ENGINE WARM—CHOKE WIDE OPEN—SLOW IDLE

While the engine continues to run, the inrushing air forces the off center choke valve "A" open The amount the choke valve opens is controlled by the vacuum piston and tension of the thermostat. Heat is transmitted into the thermostat chamber by hot air being drawn from a "stove" in the exhaust manifold. The thermostat gradually absorbs sufficient heat so that its tension decreases until it does not offer any further resistance to the choke valve opening, and at the same time the fast idle cam "D" rotates until the throttle stop screw is at normal idle position See FIG. 3. The throttle stop screw should be adjusted for a car speed of 7 to 8 M P H with the engine at normal operating temperature.

NOTE: The torsional spring of the fast idle cam has one end connected to the fast idle rod Make certain that the washer is placed on the rod after the rod is assembled in the cam and that the hook of the spring is properly assembled on the rod. It is very essential that the cam moves freely and that the rod does not stick or bind in the slot of the cam.

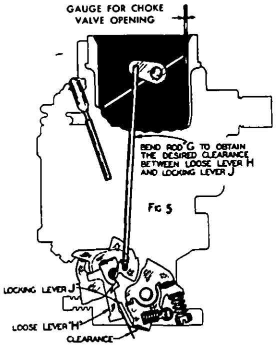
ADJUSTMENTS

NOTE—Gauges and drill sizes for the various settings are listed on Buick pages of this Catalog which cover individual carburetor units.


GAUGE FOR CHOKE VALVE OPENING
FIG 4
BEND ROD G TO SET THE CHOKE VALVE OPENING AS SHOWN ABOVE
E
HOLD SCREW IN POSITION AS SHOWN

SETTING A. Fast Idle Setting for 1939 Models

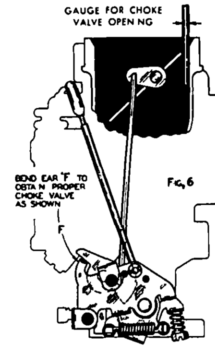
To check the fast idle setting of the carburetor it is merely necessary to hold the throttle stop screw "E" on the low lobe of the fast idle cam, FIG 4 Move the choke valve as far as possible to closed position The opening that remains should be gauged as specified on Page 1 of Carburetor Form If the correct amount of opening is not obtained it is only necessary to slightly bend the fast idle rod "G" Care should be taken so as not to distort the fast idle cam return spring or cause a bind between the rod and the slot in the cam


GAUGE FOR CHOKE VALVE OPENING
BEND ROD G TO OBTAIN THE DESIRED CLEARANCE BETWEEN LOOSE LEVER H AND LOCKING LEVER J
FIG 5
LOCKING LEVER J
LOOSE LEVER H
CLEARANCE

SETTING B. Start Aid and Fast Idle Setting for 1940-41 Models

When checking the "START AID" mechanism, the fast idle cam setting is automatically obtained. The procedure is to hold a drill, size specified on Page 1 of Carburetor Form, between the choke valve and the air horn as illustrated in FIG 5

In this position, locking lever "J" should just clear loose lever "H" while the throttle is opened and closed To obtain the desired clearance, bend the fast idle rod at the point indicated Care should be taken so as not to distort the fast idle cam return spring or cause a bind between the rod and the slot in the cam


GAUGE FOR CHOKE VALVE OPENING
BEND EAR F TO OBTAIN PROPER CHOKE VALVE AS SHOWN
F
FIG 6

SETTING C. Wide Open Kick and Deflooder Setting

With the throttle in the wide open position, the space between the top of the valv and the air horn should be as specified on Page 1 of Carburetor Form This can be measured by placing a drill of the correct diameter between the valve and the air horn, FIG. 6 This setting is properly made at the factory, however, if it is necessary to re-adjust it, it can be done by bending ear "F" to the desired position Care should be taken to make certain that the fast idle rod does not bind and the fast idle cam spring is not distorted

SERVICING

DISASSEMBLY

1 Remove carburetor from manifold

2 Remove thermostat cover screws and lug washers

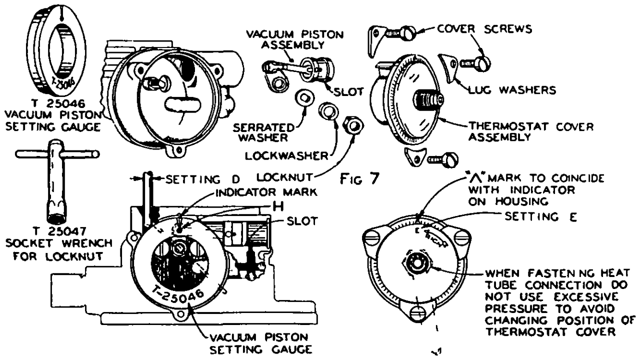
   Thermostat cover assembly can then be taken off of the choke housing

3 Loosen lock nut, removing lock washer and serrated washer.

4 Remove vacuum piston assembly from housing

5. With a clean rag saturated with acetone or alcohol, thoroughly clean the cylinder walls of any dirt or other foreign material which may have accumulated in regular service Use compressed air to blow out all of the channels. The surface of the piston should also be thoroughly cleaned. Do not use any abrasive materials for cleaning piston or cylinder.

6. Thoroughly clean the screen on the inside of the cover by blowing compressed air into the heat tube connection, and also between the screen and the cover, using precaution not to distort the screen


T 25046 VACUUM PISTON SETTING GAUGE
T 25047 SOCKET WRENCH FOR LOCKNUT
VACUUM PISTON ASSEMBLY
SLOT
SERRATED WASHER
LOCKWASHER
LOCKNUT
COVER SCREWS
LUG WASHERS
THERMOSTAT COVER ASSEMBLY
FIG 7
SETTING D
INDICATOR MARK
H
SLOT
T-25046
VACUUM PISTON SETTING GAUGE
"Λ" MARK TO COINCIDE WITH INDICATOR ON HOUSING
SETTING E
WHEN FASTENING HEAT TUBE CONNECTION DO NOT USE EXCESSIVE PRESSURE TO AVOID CHANGING POSITION OF THERMOSTAT COVER

REASSEMBLY

1 Place vacuum piston in cylinder with slot on piston assembled **DOWN. THIS IS VERY IMPORTANT, ALSO DO NOT USE ANY TYPE OF LUBRICANT ON PISTON OR IN CYLINDER.** Assemble lever onto choke stem Next assemble serrated washer, lockwasher, and locknut, fastening the nut **merely by hand.**

2 Referring to FIG 7, place tool **T-25046** on choke housing with the small hole (H) fitting over the pin of the choke lever. The indication line at the outer diameter of the tool should be set to line up with the projection on the choke housing The tool should be held in this position by hand or two of the cover screws and lug washers can be used to do this

3. Place drill or tool, size specified on Carburetor page form, between the choke valve and the air horn as illustrated in FIG 7 Tighten locknut lightly with tool T 25047

4. Remove tool **T-25057** and tool **T-25046.** Hold choke valve in closed position and tighten locknut securely CHECK CHOKE VALVE OPENING to be certain the setting wasn't disturbed Do not endeavor to change position of serrated washer or piston lever without loosening locknut

THERMOSTAT SETTING

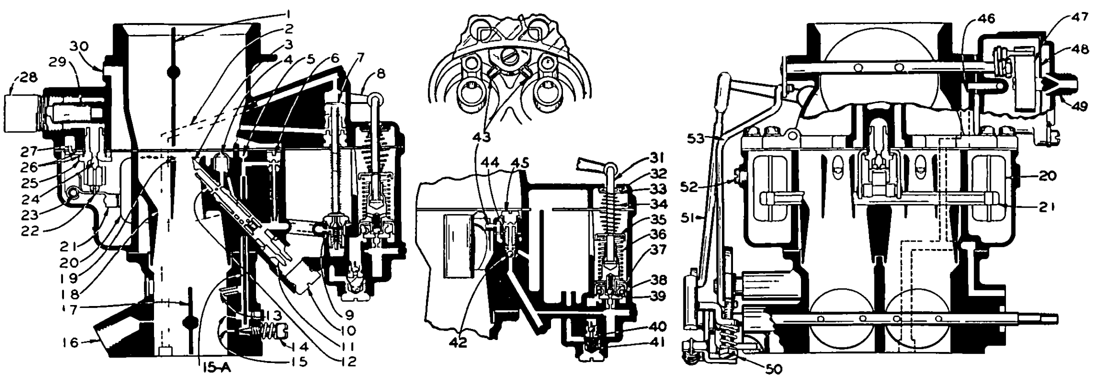
The thermostat is calibrated and properly set at the factory to give satisfactory performance with the regular blends of gasoline When placing the thermostat cover assembly on the housing, use precaution that the edge of the screen is not crimped or creased to cause a leak Locate the thermostat hook at the bottom of the housing and then rotate the cover in the "RICH" direction until the "O" mark coincides with the projection on the housing This procedure is recommended to make certain that the thermostat hook contacts the pin on the choke lever Place the lugs in position and fasten the cover screws securely. If extremely high volatile fuel is continuously used or if some exceptional condition is encountered, it may be desirable to slightly vary the adjustment of the cover to obtain the best possible performance **Do not, however, vary the adjustment more than two graduations in either direction.** The thermostat need not be changed unless some part of the assembly has been tampered with or is damaged In such cases it is necessary to replace the entire assembly The numeral stamped at "E" identifies the thermostat cover to be used on each particular unit NOTE When assembling heat tube connection nut onto thermostat cover do not use excessive pressure in order to avoid changing the position of the cover

STROMBERG AAV-16 CARBURETOR

STROMBERG NO. 380029 (CODE NO. 7-37) BUICK SYMBOL NO. 1320493

SIZE: 1″ DUAL D. D. 3-HOLE FLANGE

1941-42
BUICK
MODEL
40—Special
3-3/32″ x 4-1/8″—8 cyl.



PARTS ILLUSTRATED

1. Choke Valve
2. Power Piston Vac Passage
3. Main Discharge Jet
4. High Speed Bleeder
5. Idle Air Bleeder
6. Idle Tube
7. Vacuum Power Piston
8. Pump Fulcrum Arm
9. Power By-Pass Jet
10. Main Discharge Jet Plug
11. Main Metering Jet
12. Main Dis Jet Lead Gasket
13. Sec Idle Air Bleeder
14. Idle Needle Valve
15. Idle Discharge Holes
15A. Wire—Idle Channel
16. Vacuum Spark Conn.
17. Throttle Valve
18. Primary Venturi
19. Auxiliary Venturi
20. Float
21. Float Lever
22. Float Needle Valve Clip
23. Float Fulcrum Pin
24. Float Needle Valve
25. Float Needle Valve Seat
26. Float Hanger Gaskets
27. Float Hanger
28. Gasoline Inlet
29. Gasoline Strainer
30. Float Chamber Vent
31. Pump Piston Link
32. Felt Dust Washer
33. Retainer Washer
34. Dust Washer Spring
35. Spring Retainer Washer
36. Pump Duration Spring
37. Pump Piston
38. Piston Expansion Spring
39. Pump Relief Valve
40. Pump Inlet Check Valve
41. Pump Inlet Strainer
42. Pump Outlet Check Valve
43. Pump Discharge Nozzles
44. Pump Disch. Restriction
45. Pump Discharge Screw
46. Auto. Choke Vac. Passage
47. Thermostat
48. Screen
49. Hot Air Tube Conn
50. Throttle Stop Screw
51. Pump Rod
52. Fuel Level Sight Plug
53. Fast Idle Rod

Note—Specifications below are for latest production; previous major changes listed on parts page.

FUEL LEVEL—Measure **19/32″** below top surface of float chamber (without gasket) or level with bottom of level sight hole at **5 lbs.** pressure. To correct fuel level, hold air horn in inverted position. Place Tool **T-24971** on gasket. Tops of floats should be **1/32″** below tops of vertical guides, which will give approximate fuel level; change if necessary. Sides of floats should be parallel to guides of tool without drag. (On Carburetors using Brass Float setting should be **3/64″** above tops of vertical guides.)

MAIN METERING SYSTEM—Venturi **1-1/32″**; Main Discharge Jet **No. 32-28** P-24670 **(Tool T-24967)**; High Speed Bleeder **No. 70** P-23985. Main Metering Jet **.045″** P-24773 **(Tool T-24924)**; Use **Tool T-19099** Screwdriver for removing main jet plug. Main metering system controls the flow of fuel up to approximately 65 to 70 M.P.H.

POWER SYSTEM—Power By-Pass Jet **No. 60** P-24674 Power jet to come into operation at **5″ to 6″** of manifold vacuum, which is approximately 65 to 70 M.P.H. **(Tool T-24733)** used to remove vacuum power piston.

ACCELERATION—Pump Discharge Nozzles **No. 68** P-24594; Pump capacity **11** to **15** c.c. per 10 fast strokes, and **15** to **19** c.c. per 10 slow strokes with pump rod link set in middle setting. **(Tool T-24972)** Pump action takes place during acceleration period only.

IDLE SYSTEM—Idle Discharge holes **Nos. 54-60.** With throttle valve fully closed and **No. 60** drill in idle hole, edge of valve is located **.022″ + — .004″** from **No. 60** drill; Idle Air Bleed **No. 42** P-24683 (in throttle body), **No. 70** in main body; Idle Tube **No. 70** P-19424. Adjustment: Adjust to smooth running one barrel at a time, OUT to make richer and IN to make leaner; throttle at 7 to 8 M.P.H.

VACUUM SPARK CONTROL—With throttle fully closed and **No. 58** drill in spark hole, edge of valve is located **.041″ + — .004″** from **No. 58** drill.

AUTOMATIC CHOKE AND THERMOSTAT SETTINGS—See automatic choke control, operation and adjustment form 10C-712 Buick section of this catalog.

SETTING B—No. 53 Drill
SETTING C—11/64″ Dia. Drill, T-25057
SETTING D—15/64″ Dia. Drill, T-25085
SETTING E—No. 6 Identification Mark

FLANGE GASKET—P-20466

SPECIAL TOOLS mentioned above contained in Tool Kit SER-459. See Form 10-265A.

MOTOR TUNE-UP DATA

SPARK PLUG—.025″ to .028″. Clean and adjust at regular intervals.

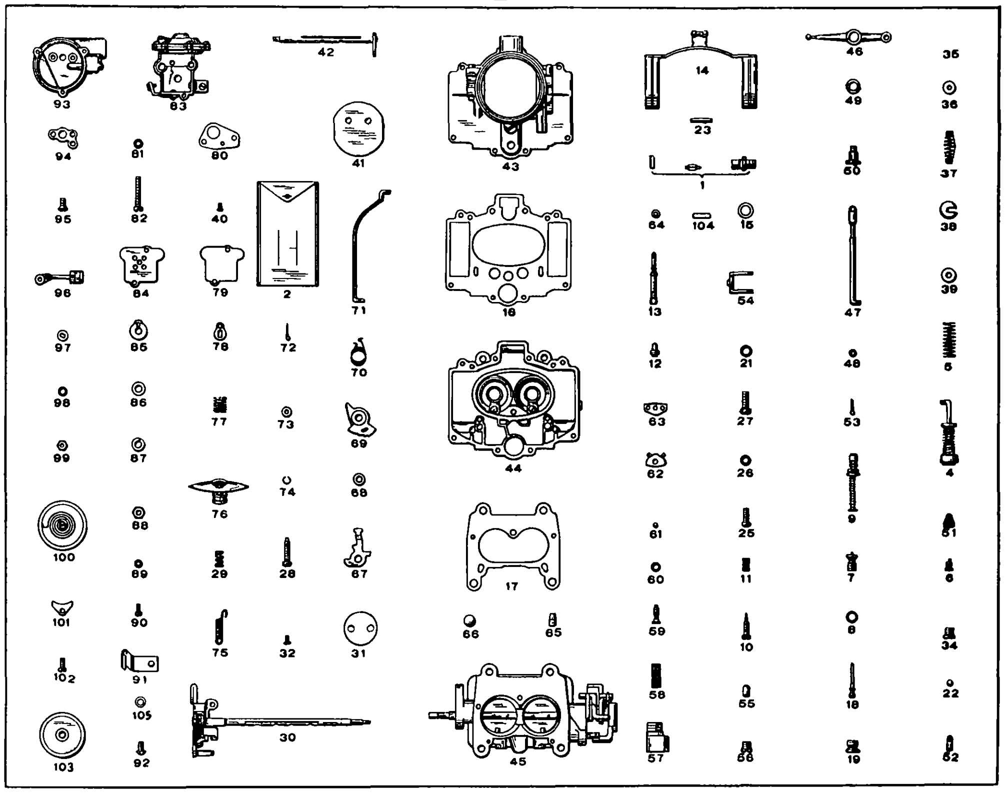
DISTRIBUTOR—.015″. Breaker gap set .015″. Replace if necessary.

VALVES—Intake: .015″. Exhaust: .015″. Engine hot.

IGNITION TIMING—The timing mark on flywheel is 1/4″ wide. Breaker contacts to open for No. 1 cylinder when trailing edge of mark is opposite index line on housing.

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Repair Parts Kit No. RK-72

Bin Location	Key No	Part No	Part Name
	1	**P-22499**	Float Needle Valve Clip & Seat 101" **(NOT VAR)**
	2	**J-5656-G**	Complete Gasket Set
	4	**P-24675**	Pump Piston Link and Spring (Complete)
	5	**P-24676**	Spring—Pump Duration
	6	**P-18144**	Pump Inlet Check Valve
	7	**P-24674**	Power By Pass Jet No 60 **(NOT VAR)**
	8	**P-19448**	Gasket—By Pass Jet
	9	**P-22803**	Vacuum Power Piston
	10	**P-15478**	Idle Needle Valve
	11	**P-18710**	Spring—Idle Needle Valve
	12	**P-24773**	Metering Jet 045" **(VAR)**
	13	**P-24670**	Main Disch Jet No 32 28 **(NOT VAR)**
	*14	382269	Float with Lever
	15	**P-2885**	Gasket—Float Needle Valve Seat
	16	**P-24727**	Gasket—Air Horn
	17	**P-24672**	Gasket—Main Body
	18	**P-19424**	Idle Tube
	19	**P-23902**	Plug—Main Discharge Jet
	21	**P-3157**	Lockwasher—Main Body Attach Screw
	22	**P-18772**	Lead Ball
	23	**P-22439**	Fulcrum Pin—Float Lever
	25	**P-2475**	Screw—Air Horn Attaching
	26	**P-6668**	Lockwasher—Air Horn Attaching Screw
	27	**P-709**	Screw—Main Body Attaching
	28	**P-19103**	Screw—Throttle Stop
	29	**P-15831**	Spring—Throttle Stop Screw
	30	**P-24679**	Throttle Lever and Stem
	31	**P-24684**	Throttle Valve (5°) **(NOT VAR)**
	32	**P-20904**	Screw—Throttle Valve Attaching
	34	**P-24678**	Plug—Check Valve
	35	**P-17380**	Washer—Felt
	36	**P-17060**	Washer—Splash—Pump Link
	37	**P-22643**	Spring—Packing Retainer
	38	**P-22045**	Washer—Cup
	39	**P-22046**	Washer—Spring Retainer
	40	**P-4522**	Screw—Choke Valve Attach
	41	**P-23913**	Choke Valve
	42	**P-23959**	Choke Stem and Lever
	43	**P-24713**	Assy —Air Horn
	44	**P-24711**	Assy —Main Body **1-1/32"** Venturi **No 70** H S Bleeder **No 70** Idle Air Bleed **(VAR)**
	*45	382230	Assy —Throttle Body **No 54-60** Idle Disch Hole **No 42** Air Bleed **(VAR)**
	46	**P-24677**	Pump Lever
	47	**P-22620**	Pump Rod
	48	**P-9394**	Washer—Pump Rod
	49	**P-19820**	Spring—Washer—Pump Lever Fulcrum Screw
	50	**P-20611**	Fulcrum Screw—Pump Lever
	51	**P-23858**	Strainer—Check Valve
	52	**P-24683**	Idle Air Bleeder No 42 **(NOT VAR)**
	53	**P-7170**	Cotter Pin—Pump Rod and Pump Link
	54	**P-22441**	Float Hanger
	55	**P-23985**	High Speed Bleeder No 70 **(NOT VAR**
	56	**P-6406**	Plug—Float Level Sight.
	57	**P-23911**	Elbow—Gas Connection
	58	**P-23912**	Strainer—Gasoline
	59	**P-24669**	Screw—Pump Disch Nozzle Attach
	60	**P-17063**	Gasket—Pump Disch Nozzle Attach Screw
	61	**P-17030**	Ball—Pump Disch Channel Check Valve
	62	**P-24594**	Nozzle—Pump Discharge **No 68** **(VAR)**
	63	**P-24668**	Gasket—Pump Discharge Nozzle
	64	**P-22602**	Lead Gasket—Main Disch Jet.
	65	**P-15458**	Plug—Idle Channel
	66	**P-23507**	Expansion Plug—Idle Disch Hole
	67	**P-24662**	Lever—Start Aid Loose Lever Lock
	68	**P-23203**	Washer—Start Aid Loose Lever Lock Lever Spacer
	69	**P-24685**	Fast Idle Cam
	70	**P-23952**	Spring—Fast Idle Cam
	71	**P-24728**	Fast Idle Rod
	72	**112-S-1**	Cotter Pin—Fast Idle Rod
	73	**P-21032**	Washer—Fast Idle Rod
	74	**P-23974**	Snap Ring—Fast Idle
	75	**P-24681**	Spring—Start Aid Loose Lever
	*76	382200	Diaphragm—Starter Switch
	*77	382199	Spring—Diaphragm Return
	78	**P-24693**	Washer—Starting Switch Adjusting **(VAR)**
	79	**P-24733**	Gasket—Starting Switch Cover
	80	**P-24694**	Gasket—Starting Switch Housing
	81	**40-S-49**	Lockwasher—Starting Switch Housing Attach Screw
	82	**61-S-45**	Screw—Starting Switch Housing Attach Screw
	83	**P-24690**	Housing—Starting Switch
	84	**P-24691**	Cover—Starting Switch
	85	**P-24692**	Rotor—Starting Switch
	86	**P-24732**	Washer—Starting Switch Rotor—Rear
	87	**40-S-1**	Lockwasher—Starting Switch Rotor Attach Nut.
	88	**P-24731**	Nut—Starting Switch Rotor Attach
	89	**40-S-18**	Lockwasher—Starting Switch Cover Att Screw
	90	**61-S-24**	Screw—Starting Switch Cover Attach
	91	**P-24643**	Spring Clips
	92	**49-S-14**	Screw—Starter Switch Cover Attach
	93	**P-24714**	Assy —Choke Housing
	94	**P-23297**	Gasket—Auto Choke Housing
	95	**P-23918**	Screw—Auto Choke Housing Attach
	96	**P-23919**	Vacuum Piston with Link and Lever
	97	**P-23933**	Washer—Thermostat Lever Adj
	98	**P-15875**	Lockwasher—Vac Piston and Link Attach Nut.
	99	**P-16571**	Nut—Vac Piston and Link Attach
	100	**P-24687**	Thermostat Cover with Thermostat
	101	**P-23932**	Washer—Thermostat Cover Attach Screw
	102	**P-2866**	Screw—Thermostat Cover Attach Screw
	103	**P-23927**	Screen—Thermostat Cover
	104	**P-22523**	Clip—Float Needle Valve
	105	**40-S-47**	Lockwasher—Starter Switch Cover Attach Screw
	106	**P-24861**	Wire—Idle Channel (Not illustrated)

*Indicates New Part

*Indicates New Parts

BENDIX PRODUCTS DIVISION

SOUTH BEND **OF BENDIX AVIATION CORPORATION** **INDIANA**

STROMBERG AAV-16 CARBURETOR

FRONT CARBURETOR OF COMPOUND INSTALLATION

STROMBERG NO. 380103 (CODE NO. 7-59A) BUICK SYMBOL NO. 1326280

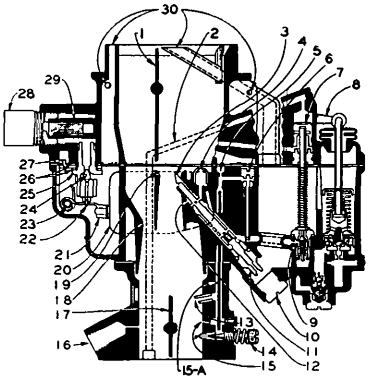
SIZE: 1" DUAL D. D. 3-HOLE FLANGE

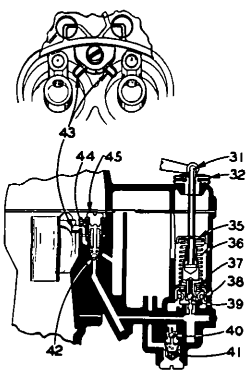
1942
BUICK

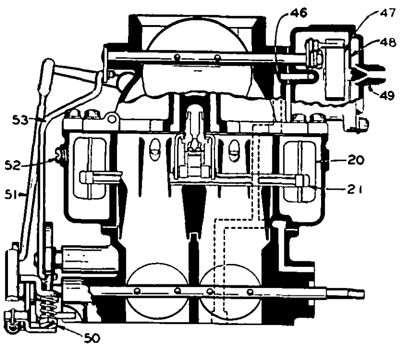
MODEL
50—Super
3-3/32" x 4-1/8"—8 cyl.

PARTS ILLUSTRATED

1. Choke Valve
2. Power Piston Vac. Passage
3. Main Discharge Jet
4. High Speed Bleeder
5. Idle Air Bleeder
6. Idle Tube
7. Vacuum Power Piston
8. Pump Fulcrum Arm
9. Power By-Pass Jet
10. Main Discharge Jet Plug
11. Metering Jet
12. Main Dis. Jet Lead Gasket
13. Sec. Idle Air Bleeder
14. Idle Needle Valve
15. Idle Discharge Holes
15A. Idle Channel Wire
16. Vacuum Spark Conn.
17. Throttle Valve
18. Primary Venturi
19. Auxiliary Venturi
20. Float
21. Float Lever
22. Float Needle Valve Clip
23. Float Fulcrum Pin
24. Float Needle Valve
25. Float Needle Valve Seat
26. Float Hanger Gaskets
27. Float Hanger







28. Gasoline Inlet
29. Gasoline Strainer
30. Venting Holes and Tube
31. Pump Piston Link
32. Pump Piston Link Seal
35. Spring Retainer Washer
36. Pump Duration Spring
37. Pump Piston
38. Pump Expansion Spring
39. Pump Relief Valve
40. Pump Inlet Check Valve
41. Pump Inlet Strainer
42. Pump Outlet Check Valve
43. Pump Discharge Nozzles
44. Pump Disch. Restriction
45. Pump Discharge Screw
46. Auto. Choke Vac. Passage
47. Thermostat
48. Screen
49. Hot Air Tube Conn.
50. Throttle Stop Screw
51. Pump Rod
52. Fuel Level Sight Plug
53. Fast Idle Rod

Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **19/32"** below top surface of float chamber (without gasket) or level with bottom of level sight hole at **5 lbs.** pressure. To correct fuel level, hold air horn in inverted position. Place Tool **T-24971** on gasket. Tops of floats should be **1/32"** below tops of vertical guides, which will give approximate fuel level; change if necessary. Sides of floats should be parallel to guides of tool without drag.

MAIN METERING SYSTEM—Venturi **15/16"**; Main Discharge Jet **No. 32-28** P-24670 (**Tool T-24967**); High Speed Bleeder **No. 70** P-23985. Main Metering Jet **.041"** P-24773 (**Tool T-24924**); Use **Tool T-19099** Screwdriver for removing main jet plug. Main metering system controls the flow of fuel up to approximately 65 to 70 M.P.H.

POWER SYSTEM—Power By-Pass Jet **No. 60** P-24674; Power jet to come into operation at **5" to 6"** of manifold vacuum, which is approximately 65 to 70 M.P.H. (**Tool T-24733**) used to remove vacuum power piston.

ACCELERATION—Pump Discharge Nozzles **No. 68** P-24594; Pump capacity **11** to **15** c.c. per 10 fast strokes, and **16** to **20** c.c. per 10 slow strokes with pump rod link set in middle setting. (**Tool T-24972**) Pump action takes place during acceleration period only.

IDLE SYSTEM—Idle Discharge hole—Upper **No. 58**; Idle Discharge Nozzle **No. 56-53** (Code No. 7-59A); Idle Discharge Nozzle **No. 60** (Code **No. 7-59**). With throttle valve fully closed and **No. 58** drill in idle hole, edge of valve is located **.010" + — .004"** from **No. 58** drill; Idle Air Bleed **No. 42** P-24683 (in throttle body), **No. 65** in main body; Idle Tube **No. 65** 382806. Adjustment: Adjust to smooth running one barrel at a time, OUT to make richer and IN to make leaner; throttle at 7 to 8 M.P.H. (See Page 4, Form 10C-704, Starter Switch and throttle Hook-up Information.)

VACUUM SPARK CONTROL—With throttle fully closed and **No. 58** drill in spark hole, edge of valve is located **.080" + — .004"** from **No. 58** drill.

AUTOMATIC CHOKE AND THERMOSTAT SETTINGS—See automatic choke control, operation and adjustment form 10C-712 Buick section of this catalog.

SETTING B—No. 53 Drill
SETTING C—11/64" Dia. Drill, T-25057
SETTING D—No. 5 Drill
SETTING E—No. 6 Identification Mark

For Starter Switch and Throttle Hook-up Information refer to Form 10C-704.

FLANGE GASKET—P-20466

SPECIAL TOOLS mentioned above contained in Tool Kit SER-459. See Form 10-265A.

MOTOR TUNE-UP DATA

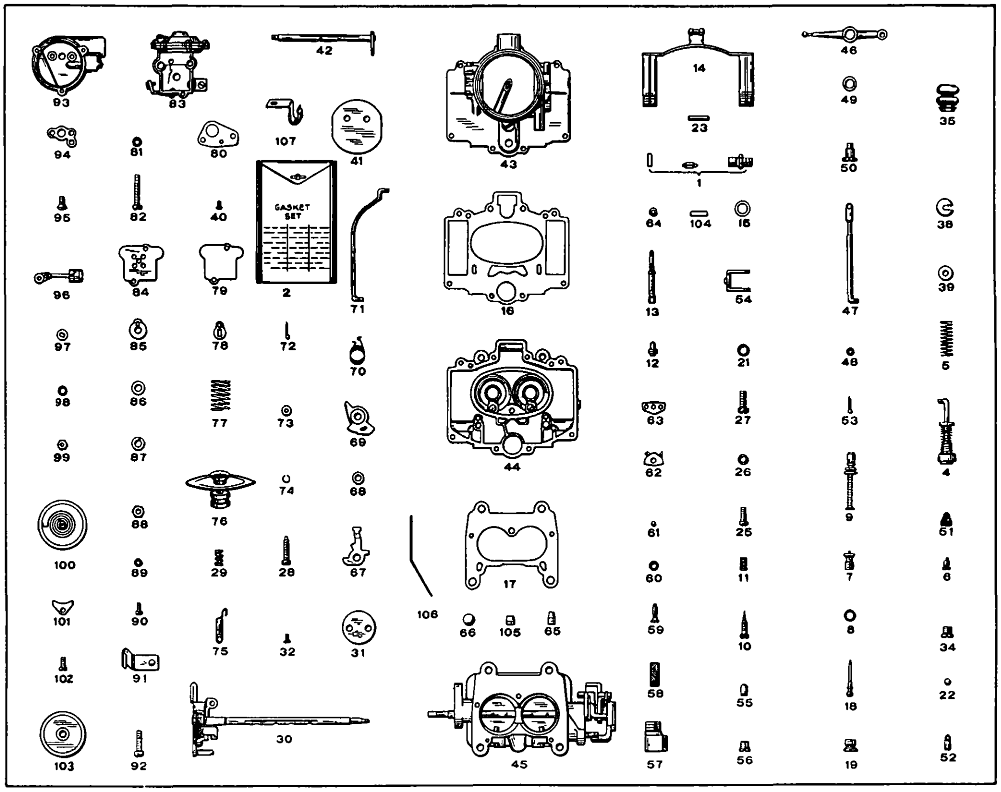
SPARK PLUG—.025" to .028". Clean and adjust at regular intervals.

DISTRIBUTOR—.015". Breaker gap set .015". Replace if necessary.

VALVES—Intake: .015". Exhaust: .015". Engine hot.

IGNITION TIMING—The timing mark on flywheel is 1/4" wide. Breaker contacts to open for No. 1 cylinder when leading edge of mark is opposite index line on housing.

SERVICE RECOMMENDATION—Check heat control valves and damper valve to see that they are free during their entire travel and that thermostats are properly positioned.



SERVICE REPLACEMENT PARTS LIST

Repair Parts Kit No. RK-114

Bin Location	Key No	Part No.	Part Name	
	1	P-22498	Float Needle Valve Clip & Seat 093″	(NOT VAR)
	2	382398	Complete Gasket Set	
	4	382239	Pump Piston Link and Spring (Complete)	
	5	P-24676	Spring—Pump Duration	
	6	P-18144	Pump Inlet Check Valve	
	7	P-24674	Power By Pass Jet No 60	(NOT VAR)
	8	P-19448	Gasket—By Pass Jet	
	9	P-22803	Vacuum Power Piston	
	10	P-15478	Idle Needle Valve	
	11	P-18710	Spring—Idle Needle Valve	
	12	P-24773	Metering Jet .041″	(VAR)
	13	P-24670	Main Disch Jet No 32 28	(NOT VAR)
	14	382269	Float with Lever	
	15	P-2885	Gasket—Float Needle Valve Seat	
	16	382255	Gasket—Air Horn	
	17	P-24672	Gasket—Main Body	
	18	382806	Idle Tube	
	19	P-23902	Plug—Main Discharge Jet	
	21	P-3157	Lockwasher—Main Body Attach Screw	
	22	P-18772	Lead Ball	
	23	P-22439	Fulcrum Pin—Float Lever	
	25	P-2475	Screw—Air Horn Attaching	
	26	P-6668	Lockwasher—Air Horn Attaching Screw	
	27	P-709	Screw—Main Body Attaching	
	28	P-19103	Screw—Throttle Stop	
	29	P-15831	Spring—Throttle Stop Screw	
	30	382243	Throttle Lever and Stem	
	31	382600	Throttle Valve	(NOT VAR)
	32	P-20904	Screw—Throttle Valve Attaching	
	34	P-24678	Plug—Check Valve	
	35	382242	Seal—Pump Piston Link	
	38	P-22045	Washer—Cup	
	39	P-22046	Washer—Spring Retainer	
	40	P-4522	Screw—Choke Valve Attach	
	41	P-23913	Choke Valve	
	42	382253	Choke Stem and Lever	
	43	382819	Assy —Air Horn	
		P-24045	Vent Tube	
	44	382853	Assy —Main Body 15/16″ Venturi No 70 H S Bleeder, No 65 Idle Air Bleed	(VAR)
	*45	383047	Throttle Body (complete with No 56-58 idle hole No 42 idle air bleed throttle stem and valve)	(VAR)
	46	P-24677	Pump Lever	
	47	P-22620	Pump Rod	
	48	P-9394	Washer—Pump Rod	
	49	P-19820	Spring—Washer—Pump Lever Fulcrum Screw	
	50	P-20611	Fulcrum Screw—Pump Lever	
	51	P-23858	Strainer—Check Valve	
	52	P-24683	Idle Air Bleeder No 42	(NOT VAR)
	53	P-7170	Cotter Pin—Pump Rod and Pump Link	
	54	P-22441	Float Hanger	
	55	P-23985	High Speed Bleeder No 70	(NOT VAR)
	56	P-6406	Plug—Float Level Sight	
	57	P-23911	Elbow—Gas Connection	
	58	P-23912	Strainer—Gasoline	
	59	P-24669	Screw—Pump Disch Nozzle Attach	
	60	P-17063	Gasket—Pump Disch Nozzle Attach Screw	
	61	P-17030	Ball—Pump Disch Channel Check Valve	
	62	P-24594	Nozzle—Pump Discharge No 68	(VAR)
	63	P-24668	Gasket—Pump Discharge Nozzle	
	64	P-22602	Lead Gasket—Main Disch Jet	
	65	P-15458	Plug—Idle Channel	
	66	P-23507	Expansion Plug—Idle Disch Hole	
	67	382247	Lever—Start Aid Loose Lever Lock	
	68	P-23203	Washer—Start Aid Loose Lever Lock Lever Spacer	
	69	382248	Fast Idle Cam	
	70	P-23952	Spring—Fast Idle Cam	
	71	P-24728	Fast Idle Rod	
	72	112-S-1	Cotter Pin—Fast Idle Rod	
	73	P-21032	Washer—Fast Idle Rod	
	74	P-23974	Snap Ring—Fast Idle	
	75	382245	Spring—Start Aid Loose Lever	
	76	382200	Diaphragm—Starter Switch	
	77	382199	Spring—Diaphragm Return	
	78	P-24693	Washer—Spring Switch Adjusting	(VAR)
	79	P-24733	Gasket—Starting Switch Cover	
	80	P-24694	Gasket—Starting Switch Housing	
	81	40-S-49	Lockwasher—Starting Switch Housing Attach Screw	
	82	61-S-45	Screw—Starting Switch Housing Attach Screw	
	83	P-24690	Housing—Starting Switch	
	84	P-24691	Cover—Starting Switch	
	85	P-24692	Rotor—Starting Switch	
	86	P-24732	Washer—Starting Switch Rotor—Rear	
	87	40-S-1	Lockwasher—Starting Switch Rotor Attach Nut	
	88	P-24731	Nut—Starting Switch Rotor Attach	
	89	40-S-18	Lockwasher—Starting Switch Cover Att Screw	
	90	61-S-24	Screw—Starting Switch Cover Attach	
	91	382493	Spring Clips	
	92	49-S-14	Screw—Starter Switch Cover Attach	
	93	P-24714	Assy —Choke Housing	
	94	P-23297	Gasket—Auto Choke Housing	
	95	P-23918	Screw—Auto Choke Housing Attach	
	96	P-23919	Vacuum Piston with Link and Lever	
	97	P-23933	Washer—Thermostat Lever Adj	
	98	P-15875	Lockwasher—Vac Piston and Link Attach Nut	
	99	P-16571	Nut—Vac Piston and Link Attach	
	100	P-24687	Thermostat Cover with Thermostat	
	101	P-23932	Washer—Thermostat Cover Attach Screw	
	102	P-2866	Screw—Thermostat Cover Attach Screw	
	103	P-23927	Screen—Thermostat Cover	
	104	P-22523	Clip—Float Needle Valve	
	105	40-S-49	Lockwasher—Starter Switch Cover Attach Screw	
	106	P-24861	Wire—Idle Channel	
	107	P-24643	Spring Clip	

*Indicates New Part

BENDIX PRODUCTS DIVISION
SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

Printed in U S A

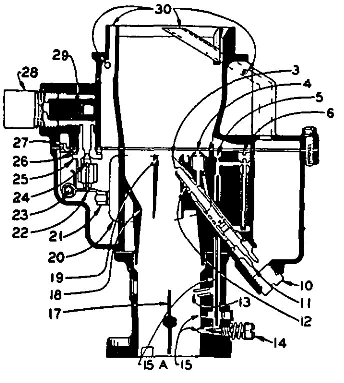
STROMBERG AA-1 CARBURETOR

REAR CARBURETOR OF COMPOUND INSTALLATION

STROMBERG NO 380096 (CODE NO 7-56A) BUICK SYMBOL NO 1326130

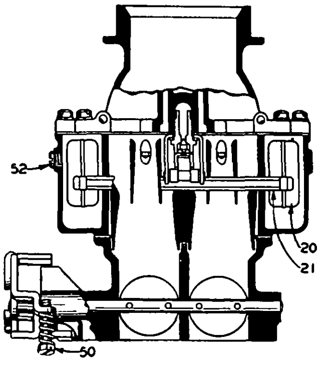
SIZE 1″ DUAL D D 3-HOLE FLANGE

1942
BUICK
MODEL
50—Super
3-3/32″ x 4-1/8″—8 cyl.



PARTS ILLUSTRATED

3	Main Disch Jet
4	High Speed Bleeder
5	Idle Air Bleeder
6	Idle Tube
10	Main Disch Jet Plug
11	Metering Jet
12	Main Dis Jet Lead Gasket
13	Sec Idle Air Bleeder
14	Idle Needle Valve
15	Idle Disch Holes
15A	Wire—Idle Channel
17	Throttle Valve
18	Primary Venturi
19	Auxiliary Venturi
20	Float
21	Float Lever
22	Float Needle Valve Clip
23	Float Fulcrum Pin
24	Float Needle Valve
25	Float Needle Valve Seat
26	Float Hanger Gasket
27	Float Hanger
28	Gasoline Inlet
29	Gasoline Strainer
30	Venting Holes and Tube
50	Throttle Stop Screw
52	Fuel Level Sight Plug



Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **19/32″** below top surface of float chamber (without gasket) or level with bottom of level sight hole To correct fuel level, hold air horn in inverted position Place **Tool T-24971** on gasket Tops of floats should be **1/32″ below** tops of vertical guides, which will give approximate fuel level, change if necessary Sides of floats should be parallel to guides of tool without drag

MAIN METERING SYSTEM — Venturi 15/16″; Main Discharge Jet **No. 32-28** P 24670 (**Tool T-24967**); High Speed Bleeder P-23985 **No. 70** in body Main Metering Jet **.048″** P-24773 (**Tool T-24924**); Use **Tool T-19099** Screwdriver for removing main jet plug Main metering system controls the flow of fuel up to approximately 65 to 70 M P H

IDLE SYSTEM—Idle Discharge hole—Upper **No. 58,** Idle Discharge Nozzle **No. 56-53** (Code No 7-56A), Idle Discharge Nozzle **No. 60** (Code No 7-56) With throttle valve fully closed and **No. 58** drill in idle hole, edge of valve is located **.022″** + — **.004″** from **No. 58** drill, Idle Air Bleed **No. 42** P 24683 (in throttle body, No 65 in main Body, Idle Tube **No. 65** 382806 Adjustment Adjust to smooth running one barrel at a time, OUT to make richer and IN to make leaner, throttle at 7 to 8 M P H) (See Page 4 Form 10C-704 Starter Switch and Throttle Hook up Information)

FLANGE GASKET—P-20466

SPECIAL TOOLS MENTIONED ABOVE CONTAINED IN TOOL KIT SER-459 SEE FORM 10-265A

MOTOR TUNE-UP DATA

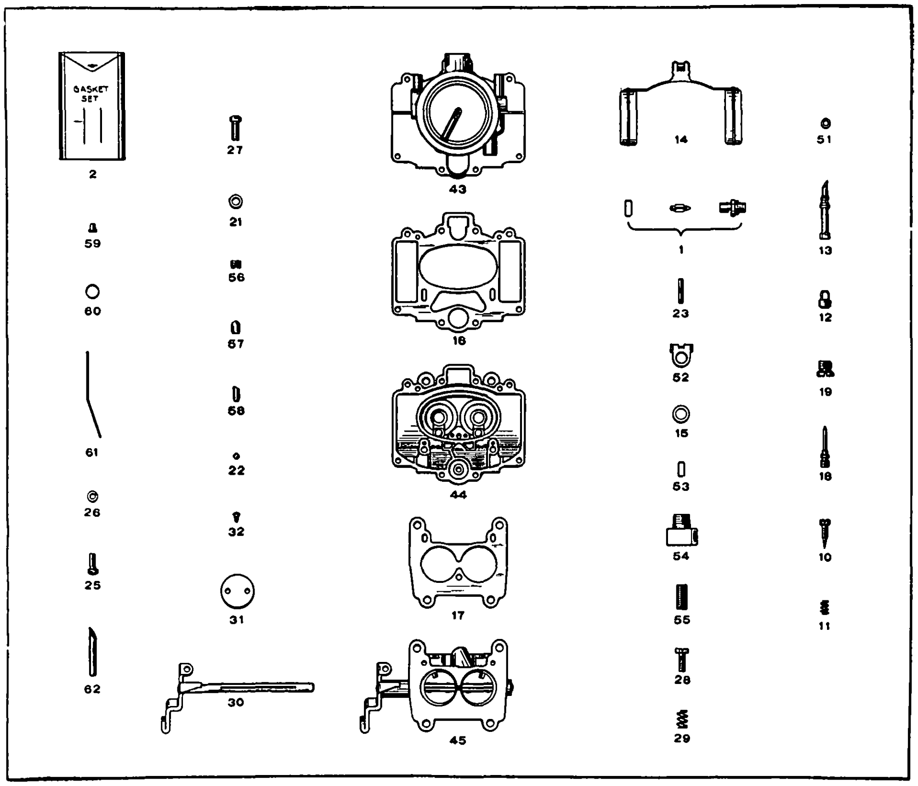
SPARK PLUG—.025″ to .028″. Clean and adjust at regular intervals.

DISTRIBUTOR—.015″. Breaker gap set .015″. Replace if necessary.

VALVES—Intake: .015″. Exhaust: .015″. Engine hot.

IGNITION TIMING—The timing mark on flywheel is ¼″ wide. Breaker contacts to open for No. 1 cylinder when leading edge of mark is opposite index line on housing.

SERVICE RECOMMENDATION—Check heat control valves and damper valve to see that they are free during their entire travel and that thermostats are properly positioned.



SERVICE REPLACEMENT PARTS LIST

Repair Parts Kit No. RK-124

Bin Loca-tion	Key No.	Part No	Part Name	
	1	383046	Float Needle Valve and Seat	(NOT VAR)
	2	382399	Complete Gasket Set	
	10	P-15478	Idle Needle Valve	
	11	P-18710	Spring—Idle Needle Valve	
	12	P-24773	Metering Jet 048″	(VAR)
	13	P-24670	Main Disch Jet No 32 28	(NOT VAR)
	14	382269	Float	
	15	P-2885	Gasket—Float Needle Valve Seat	
	16	382255	Gasket—Air Horn	
	17	P-24672	Gasket—Main Body	
	18	382806	Idle Tube	
	19	P-23902	Plug—Main Disch Jet	
	21	P-3157	Lockwasher—Main Body Attach Screw	
	22	P-18772	Lead Ball	
	23	P-22439	Pin—Float Fulcrum	
	25	P-2475	Screw—Air Horn Attach	
	26	P-6668	Lockwasher—Air Horn Attach Screw	
	27	P-709	Screw—Main Body Attach	
	28	P-18769	Screw—Idle Adj	
	29	P-15831	Spring—Idle Adj Screw	
	30	383051	Throttle Lever and Stem	
	31	382246	Throttle Valve (5°)	
	32	P-20904	Screw—Throttle Valve Attach	
	43	382821	Air Horn	
	44	382852	Main Body (complete with 15/16 Venturi **No 70** High Speed Bleed **No 65** Idle Air Bleed)	**(VAR**
	45	383045	Throttle Body (complete with **No 56-58** Idle Holes **No 42** Idle Air Bleed Throttle Stem & Valve)	**(VAR)**
	51	P-22602	Gasket—Main Disch Jet	
	52	P-22441	Hanger—Float	
	53	P-22523	Clip—Float Needle Valve Seat	
	54	383008	Tee—Gas Conn	
	55	P-23912	Strainer—Gasoline	
	56	P-6406	Plug—Fuel Level Sight	
	57	P-23985	H S Bleeder No 70	(NOT VAR)
	58	P-24683	Idle Air Bleeder No 42	(NOT VAR)
	59	P-15458	Plug—Idle Channel	
	60	P-23507	Plug—Idle Disch Holes	
	61	P-24861	Wire—Idle Channel	
	62	P 24045	Vent Tube	

BENDIX PRODUCTS DIVISION

SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

Printed in U S A

STROMBERG AAV-16 CARBURETOR

FRONT CARBURETOR OF COMPOUND INSTALLATION

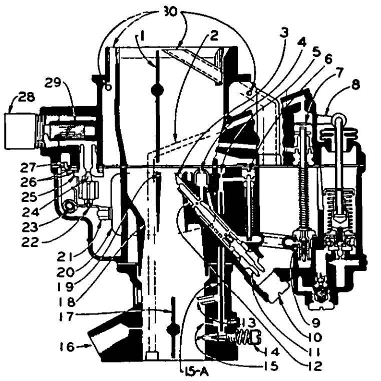
STROMBERG NO. 380104 (CODE NO 7-60A) BUICK SYMBOL NO 1326281

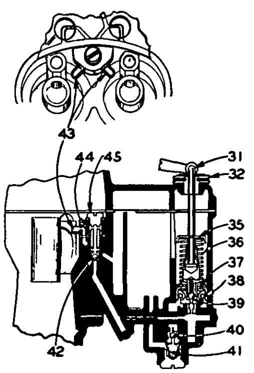
SIZE: 1″ DUAL D. D. 3-HOLE FLANGE

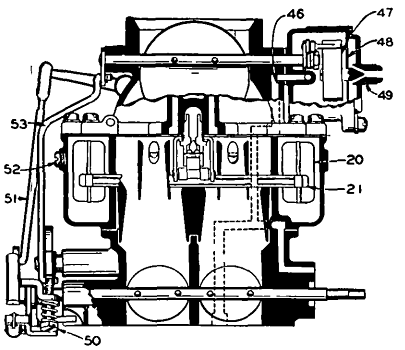
1942
BUICK
MODELS
60—Century
70—Roadmaster
90—Limited
3-7/16″ x 4-5/16″—8 cyl.

PARTS ILLUSTRATED

1 Choke Valve
2 Power Piston Vac Passage
3 Main Discharge Jet
4 High Speed Bleeder
5 Idle Air Bleeder
6 Idle Tube
7 Vacuum Power Piston
8 Pump Fulcrum Arm
9 Power By Pass Jet
10 Main Discharge Jet Plug
11 Metering Jet
12 Main Dis Jet Lead Gasket
13 Sec Idle Air Bleeder
14 Idle Needle Valve
15 Idle Discharge Holes
15A Idle Channel Wire
16 Vacuum Spark Conn
17 Throttle Valve
18 Primary Venturi
19 Auxiliary Venturi
20 Float
21 Float Lever
22 Float Needle Valve Clip
23 Float Fulcrum Pin
24 Float Needle Valve
25 Float Needle Valve Seat
26 Float Hanger Gaskets
27 Float Hanger







28 Gasoline Inlet
29 Gasoline Strainer
30 Venting Holes and Tube
31 Pump Piston Link
32 Pump Piston Link Seal
35 Spring Retainer Washer
36 Pump Duration Spring
37 Pump Piston
38 Pump Expansion Spring
39 Pump Relief Valve
40 Pump Inlet Check Valve
41 Pump Inlet Strainer
42 Pump Outlet Check Valve
43 Pump Discharge Nozzles
44 Pump Disch Restriction
45 Pump Discharge Screw
46 Auto Choke Vac Passage
47 Thermostat
48 Screen
49 Hot Air Tube Conn
50 Throttle Stop Screw
51 Pump Rod
52 Fuel Level Sight Plug
53 Fast Idle Rod

Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **19/32″** below top surface of float chamber (without gasket) or level with bottom of level sight hole at **5 lbs.** pressure. To correct fuel level, hold air horn in inverted position. Place Tool **T-24971** on gasket. Tops of floats should be **1/32″** below tops of vertical guides, which will give approximate fuel level, change if necessary. Sides of floats should be parallel to guides of tool without drag.

MAIN METERING SYSTEM—Venturi **1-1/32″**; Main Discharge Jet **No. 32-28** P-24670 (**Tool T-24967**); High Speed Bleeder **No. 70** P-23985. Main Metering Jet **.047″** P-24773 (**Tool T-24924**); Use **Tool T-19099** Screwdriver for removing main jet plug. Main metering system controls the flow of fuel up to approximately 65 to 70 M P H.

POWER SYSTEM—Power By-Pass Jet **No. 56** P-21657 Power jet to come into operation at **5″ to 6″** of manifold vacuum, which is approximately 65 to 70 M P.H. (**Tool T-24733**) used to remove vacuum power piston.

ACCELERATION—Pump Discharge Nozzles **No. 68** P-24594, Pump capacity **11** to **15** c.c. per 10 fast strokes, and **16** to **20** c.c. per 10 slow strokes with pump rod link set in middle setting. (**Tool T-24972**) Pump action takes place during acceleration period only.

IDLE SYSTEM—Idle Discharge hole—Upper **No. 58**; Idle Discharge Nozzle **No. 56-53** (Code No 7-60A); Idle Discharge Nozzle **No. 60** (Code No.7-60). With throttle valve fully closed and **No. 58** drill in idle hole, edge of valve is located **.010″ + — .004″** from **No. 58** drill, Idle Air Bleed **No. 42** P-24683 (in throttle body), **No. 60** in main body, Idle Tube **No. 65** 382806. Adjustment: Adjust to smooth running one barrel at a time, OUT to make richer and IN to make leaner, throttle at 7 to 8 M.P.H. (See Page 4, Form 10C-704, Starter Switch and Throttle Hook-up Information.)

VACUUM SPARK CONTROL—With throttle fully closed and **No. 58** drill in spark hole, edge of valve is located **.080″ + — .004″** from **No. 58** drill.

AUTOMATIC CHOKE AND THERMOSTAT SETTINGS—See automatic choke control, operation and adjustment form 10C-712 Buick section of this catalog.

SETTING B—No. 53 Drill
SETTING C—11/64″ Dia. Drill, Tool T-25057
SETTING D—No. 5 Drill
SETTING E—No. 6 Identification Mark

For Starter Switch and Throttle Hook-up Information Refer to Form 10C-704.

FLANGE GASKET—P-20466

SPECIAL TOOLS mentioned above contained in Tool Kit SER-459. See Form 10-265A.

MOTOR TUNE-UP DATA

SPARK PLUG—.025″ to .028″. Clean and adjust at regular intervals.

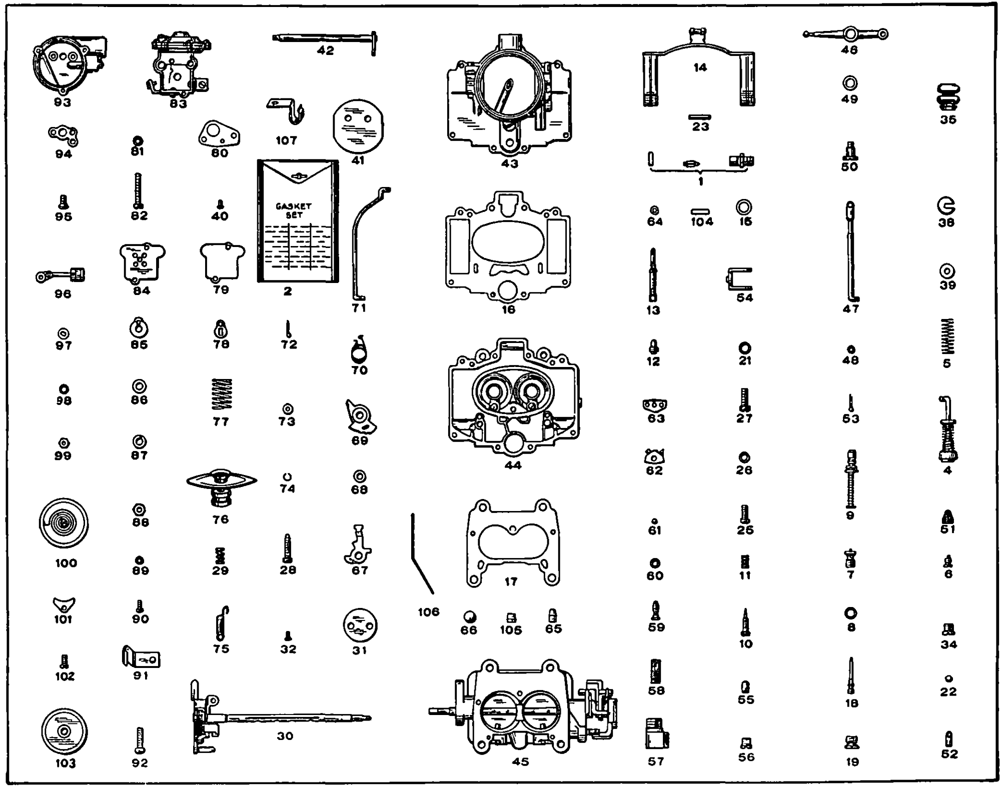
DISTRIBUTOR—.015″. Breaker gap set .015″. Replace if necessary.

VALVES—Intake: .015″. Exhaust: .015″. Engine hot.

IGNITION TIMING—Breaker contacts to open for No. 1 cylinder when flywheel mark is opposite index line on housing.

SERVICE RECOMMENDATION—Check heat control valves and damper valves to see that they are free during their entire travel and that thermostats are properly positioned.

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Repair Parts Kit No. RK-116

Bin Location	Key No	Part No	Part Name
	1	P-22498	Float Needle Valve Clip and Seat 093" **(NOT VAR)**
	2	382398	Complete Gasket Set
	4	382239	Pump Piston Link and Spring (Complete)
	5	P-24676	Spring—Pump Duration
	6	P-18144	Pump Inlet Check Valve
	7	P-21657	Power By Pass Jet No 56 **(NOT VAR)**
	8	P-19448	Gasket—By Pass Jet
	9	P-22803	Vacuum Power Piston
	10	P-15478	Idle Needle Valve
	11	P-18710	Spring—Idle Needle Valve
	12	P-24773	Metering Jet 047" **(VAR)**
	13	P-24670	Main Disch Jet No 32 28 **(NOT VAR)**
	14	382269	Float with Lever
	15	P-2885	Gasket—Float Needle Valve Seat
	16	382255	Gasket—Air Horn
	17	P-24672	Gasket—Main Body
	18	382806	Idle Tube
	19	P-23902	Plug—Main Discharge Jet
	21	P-3157	Lockwasher—Main Body Attach Screw
	22	P-18772	Lead Ball
	23	P-22439	Fulcrum Pin—Float Lever
	25	P-2475	Screw—Air Horn Attaching
	26	P-6668	Lockwasher—Air Horn Attaching Screw
	27	P-709	Screw—Main Body Attaching
	28	P-19103	Screw—Throttle Stop
	29	P-15831	Spring—Throttle Stop Screw
	30	382243	Throttle Lever and Stem
	31	382600	Throttle Valve
	32	P-20904	Screw—Throttle Valve Attaching
	34	P-24678	Plug—Check Valve
	35	382242	Seal—Pump Piston Link
	38	P-22045	Washer—Cup
	39	P-22046	Washer—Spring Retainer
	40	P-4522	Screw—Choke Valve Attach
	41	P-23913	Choke Valve
	42	382253	Choke Stem and Lever
	43	382819	Assy —Air Horn
		P-24045	Vent Tube
	44	382856	Assy —Main Body 1-1/32' Venturi **No** 70 H S Bleeder **No** 60 Idle Air Bleed **(VAR)**
	*45	383047	Throttle Valve (complete with **No** 56-58 idle hole **No** 42 idle air bleed throttle stem and valve) **(VAR)**
	46	P-24677	Pump Lever
	47	P-22620	Pump Rod
	48	P-9394	Washer—Pump Rod
	49	P-19820	Spring—Washer—Pump Lever Fulcrum Screw
	50	P-20611	Fulcrum Screw—Pump Lever
	51	P-23858	Strainer—Check Valve
	52	P-24683	Idle Air Bleeder No 42 **(NOT VAR)**
	53	P-7170	Cotter Pin—Pump Rod and Pump Link
	54	P-22441	Float Hanger
	55	P-23985	High Speed Bleeder No 70 **(NOT VAR)**
	56	P-6406	Plug—Float Level Sight

Bin Location	Key No	Part No	Part Name
	57	P-23911	Elbow—Gas Connection
	58	P-23912	Strainer—Gasoline
	59	P-24669	Screw—Pump Disch Nozzle Attach
	60	P-17063	Gasket—Pump Disch Nozzle Attach Screw
	61	P-17030	Ball—Pump Disch Channel Check Valve
	62	P-24594	Nozzle—Pump Discharge **No 68** **(VAR)**
	63	P-24668	Gasket—Pump Discharge Nozzle
	64	P-22602	Lead Gasket—Main Disch Jet
	65	P-15458	Plug—Idle Channel
	66	P-23507	Expansion Plug—Idle Disch Hole
	67	382247	Lever—Start Aid Loose Lever Lock
	68	P-23203	Washer—Start Aid Loose Lever Lock Lever Spacer
	69	382248	Fast Idle Cam
	70	P-23952	Spring—Fast Idle Cam
	71	P-24728	Fast Idle Rod
	72	112-S-1	Cotter Pin—Fast Idle Rod
	73	P-21032	Washer—Fast Idle Rod
	74	P-23974	Snap Ring—Fast Idle
	75	382245	Spring—Start Aid Loose Lever
	76	382200	Diaphragm—Starter Switch
	77	382199	Spring—Diaphragm Return
	78	P-24693	Washer—Starting Switch Adjusting **(VAR)**
	79	P-24733	Gasket—Starting Switch Cover
	80	P-24694	Gasket—Starting Switch Housing
	81	40-S-49	Lockwasher—Starting Switch Housing Attach Screw
	82	61-S-45	Screw—Starting Switch Housing Attach Screw
	83	P-24690	Housing—Starting Switch
	84	P-24691	Cover—Starting Switch
	85	P-24692	Rotor—Starting Switch
	86	P-24732	Washer—Starting Switch Rotor—Rear
	87	40-S-1	Lockwasher—Starting Switch Rotor Attach Nut
	88	P-24731	Nut—Starting Switch Rotor Attach
	89	40-S-18	Lockwasher—Starting Switch Cover Att Screw
	90	61-S-24	Screw—Starting Switch Cover Attach
	91	382493	Spring Clips
	92	49-S-14	Screw—Starter Switch Cover Attach
	93	P-24714	Assy —Choke Housing
	94	P-23297	Gasket—Auto Choke Housing
	95	P-23918	Screw—Auto Choke Housing Attach
	96	P-23919	Vacuum Piston with Link and Lever
	97	P-23933	Washer—Thermostat Lever Adj
	98	P-15875	Lockwasher—Vac Piston and Link Attach Nut
	99	P-16571	Nut—Vac Piston and Link Attach
	100	P-24687	Thermostat Cover with Thermostat
	101	P-23932	Washer—Thermostat Cover Attach Screw
	102	P-2866	Screw—Thermostat Cover Attach Screw
	103	P-23927	Screen—Thermostat Cover
	104	P-22523	Clip—Float Needle Valve
	105	40-S-47	Lockwasher—Starter Switch Cover Attach Screw
	106	P-24861	Wire—Idle Channel
	107	P-24643	Clip Spring

*Indicates New Part

BENDIX PRODUCTS DIVISION

SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

Printed in U S A

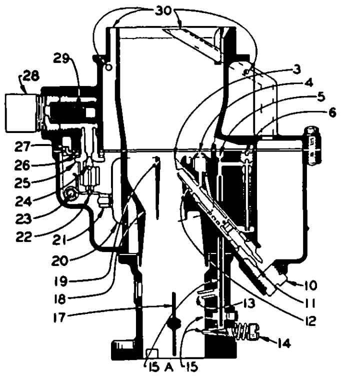
STROMBERG AA-1 CARBURETOR

REAR CARBURETOR OF COMPOUND INSTALLATION

STROMBERG NO. 380095 (CODE NO 7-55A) BUICK SYMBOL NO 1326103

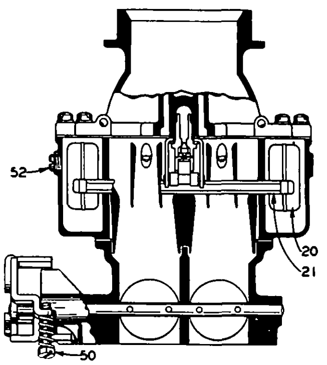
SIZE 1 DUAL D D 3-HOLE FLANGE

1942
BUICK
MODELS
60—Century
70—Roadmaster
90—Limited
3-7/16″ x 4-5/16″—8 cyl



PARTS ILLUSTRATED

3	Main Disch Jet
4	High Speed Bleeder
5	Idle Air Bleeder
6	Idle Tube
10	Main Disch Jet Plug
11	Metering Jet
12	Main Dis Jet Lead Gasket
13	Sec Idle Air Bleeder
14	Idle Needle Valve
15	Idle Disch Holes
15A	Idle Channel Wire
17	Throttle Valve
18	Primary Venturi
19	Auxiliary Venturi
20	Float
21	Float Lever
22	Float Needle Valve Clip
23	Float Fulcrum Pin
24	Float Needle Valve
25	Float Needle Valve Seat
26	Float Hanger Gasket
27	Float Hanger
28	Gasoline Inlet
29	Gasoline Strainer
30	Venting Holes and Tube
50	Throttle Stop Screw
52	Fuel Level Sight Plug



Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **19/32″** below top surface of float chamber (without gasket) or level with bottom of level sight hole To correct fuel level, hold air horn in inverted position Place **Tool T-24971** on gasket Tops of floats should be **1/32″ below** tops of vertical guides, which will give approximate fuel level, change if necessary. Sides of floats should be parallel to guides of tool without drag

MAIN METERING SYSTEM — Venturi **1-1/32″**; Main Discharge Jet **No. 32-28** P-24670 (**Tool T-24967**); High Speed Bleeder P 23985 **No. 70** in body Main Metering Jet **.053″** P-24773 (**Tool T-24924**); Use **Tool T-19099** Screwdriver for removing main jet plug Main metering system controls the flow of fuel up to approximately 65 to 70 M P H

IDLE SYSTEM—Idle Discharge hole—Upper **No. 58**; Idle Discharge Nozzle **No. 56-53** (Code No 7-55A), Idle Discharge Nozzle **No. 60** (Code No 7-55) With throttle valve fully closed and **No. 58** drill in idle hole, edge of valve is located **.022″** + — **.004″** from **No. 58** drill, Idle Air Bleed **No. 42** P-24683 (in throttle body), **No. 60** in main body, Idle Tube **No. 65** 382806 Adjustment Adjust to smooth running one barrel at a time, OUT to make richer and IN to make leaner, throttle at 7 to 8 M P H (See Page 4 Form 10C 704 Starter Switch and Throttle Hook up Information)

FLANGE GASKET—P 20466

SPECIAL TOOLS MENTIONED ABOVE CONTAINED IN TOOL KIT SER-459 SEE FORM 10-265A

MOTOR TUNE-UP DATA

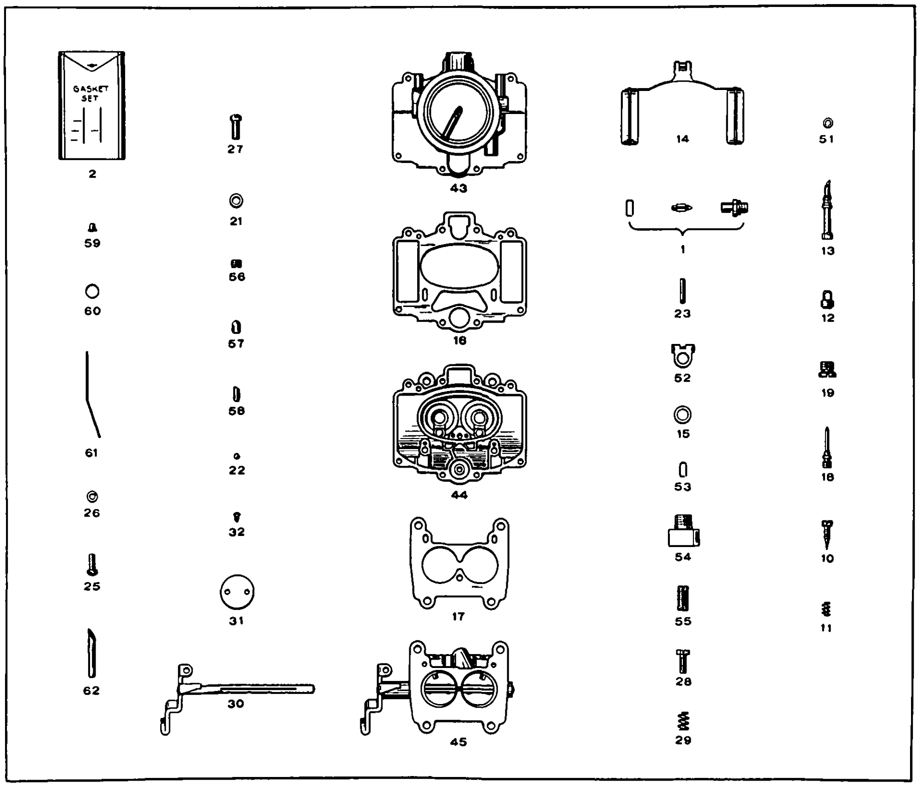
SPARK PLUG—.025″ to .028″. Clean and adjust at regular intervals.

DISTRIBUTOR—.015″. Breaker gap set .015″. Replace if necessary.

VALVES—Intake: .015″. Exhaust: .015″. Engine hot.

IGNITION TIMING—Breaker contacts to open for No. 1 cylinder when flywheel mark is opposite index line on housing.

SERVICE RECOMMENDATION—Check heat control valves and damper valve to see that they are free during their entire travel and that thermostats are properly positioned.



SERVICE REPLACEMENT PARTS LIST

Repair Parts Kit No. RK-123

Bin Loca-tion	Key No	Part No.	Part Name	
	1	383046	Float Needle Valve and Seat	(NOT VAR)
	2	382399	Complete Gasket Set	
	10	P-15478	Idle Needle Valve	
	11	P-18710	Spring—Idle Needle Valve	
	12	P-24773	Metering Jet 053″	(VAR)
	13	P-24670	Main Disch Jet No 32 28	(NOT VAR)
	14	382269	Float	
	15	P-2885	Gasket—Float Needle Valve Seat	
	16	382255	Gasket—Air Horn	
	17	P-24672	Gasket—Main Body	
	18	382806	Idle Tube	
	19	P-23902	Plug—Main Disch Jet	
	21	P-3157	Lockwasher—Main Body Attach Screw	
	22	P-18772	Lead Ball	
	23	P-22439	Pin—Float Fulcrum	
	25	P-2475	Screw—Air Horn Attach	
	26	P-6668	Lockwasher—Air Horn Attach Screw	
	27	P-709	Screw—Main Body Attach	
	28	P-18769	Screw—Idle Adj	
	29	P-15831	Spring—Idle Adj Screw	
	30	383051	Throttle Lever and Stem	
	31	382246	Throttle Valve (5°)	
	32	P-20904	Screw—Throttle Valve Attach	
	43	382821	Air Horn	
	44	382854	Main Body (complete with 1-1/32′ Venturi No 7 High Speed Bleed No 60 Idle Air Bleed)	(VAR)
	45	383045	Throttle Body (complete with No 56-58 Idle Holes No 42 Idle Air Bleed Throttle Stem & Valve	(VAR)
	51	P-22602	Gasket—Main Disch Jet	
	52	P-22441	Hanger—Float	
	53	P-22523	Clip—Float Needle Valve Seat	
	54	383008	Tee—Gas Conn	
	55	P-23912	Strainer—Gasoline	
	56	P-6406	Plug—Fuel Level Sight	
	57	P-23985	H S Bleeder No 70	(NOT VAR)
	58	P-24683	Idle Air Bleeder No 42	(NOT VAR)
	59	P-15458	Plug—Idle Channel	
	60	P-23507	Plug—Idle Disch Holes	
	61	P-24861	Wire—Idle Channel	
	62	P-24045	Vent Tube	

BENDIX PRODUCTS DIVISION

SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

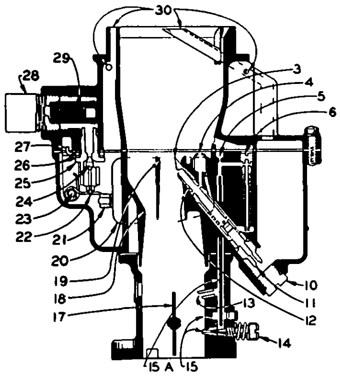
STROMBERG AA-1 CARBURETOR

REAR CARBURETOR OF COMPOUND INSTALLATION

STROMBERG NO 380095 (CODE NO 7-55A) BUICK SYMBOL NO 1326103

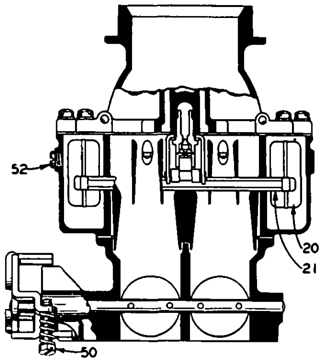
SIZE 1 DUAL D D 3-HOLE FLANGE

1942
BUICK
MODELS
60—Century
70—Roadmaster
90—Limited
3-7/16" x 4-5/16'—8 cyl



PARTS ILLUSTRATED

3	Main Disch Jet	20	Float
4	High Speed Bleeder	21	Float Lever
5	Idle Air Bleeder	22	Float Needle Valve Clip
6	Idle Tube	23	Float Fulcrum Pin
10	Main Disch Jet Plug	24	Float Needle Valve
11	Metering Jet	25	Float Needle Valve Seat
12	Main Dis Jet Lead Gasket	26	Float Hanger Gasket
13	Sec Idle Air Bleeder	27	Float Hanger
14	Idle Needle Valve	28	Gasoline Inlet
15	Idle Disch Holes	29	Gasoline Strainer
15A	Idle Channel Wire	30	Venting Holes and Tube
17	Throttle Valve	50	Throttle Stop Screw
18	Primary Venturi	52	Fuel Level Sight Plug
19	Auxiliary Venturi		



Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure 19/32" below top surface of float chamber (without gasket) or level with bottom of level sight hole To correct fuel level, hold air horn in inverted position Place **Tool T-24971** on gasket Tops of floats should be **1/32" below** tops of vertical guides, which will give approximate fuel level, change if necessary Sides of floats should be parallel to guides of tool without drag

MAIN METERING SYSTEM—Venturi **1-1/32"**; Main Discharge Jet **No. 32-28** P 24670 **(Tool T-24967)**; High Speed Bleeder P 23985 **No. 70** in body Main Metering Jet **.053"** P-24773 **(Tool T-24924)**; Use **Tool T-19099** Screwdriver for removing main jet plug Main metering system controls the flow of fuel up to approximately 65 to 70 M P H

IDLE SYSTEM—Idle Discharge hole—Upper **No. 58**; Idle Discharge Nozzle **No. 56-53** (Code No 7 55A), Idle Discharge Nozzle **No. 60** (Code No 7-55) With throttle valve fully closed and **No. 58** drill in idle hole, edge of valve is located **.022" + — .004"** from **No. 58** drill, Idle Air Bleed **No. 42** P 24683 (in throttle body), **No. 60** in main body, Idle Tube **No. 65** 382806 Adjustment Adjust to smooth running one barrel at a time, OUT to make richer and IN to make leaner, throttle at 7 to 8 M P H (See Page 4 Form 10C-704 Starter Switch and Throttle Hook up Information)

FLANGE GASKET—P 20466.

SPECIAL TOOLS MENTIONED ABOVE CONTAINED IN TOOL KIT SER-459 SEE FORM 10-265A

MOTOR TUNE-UP DATA

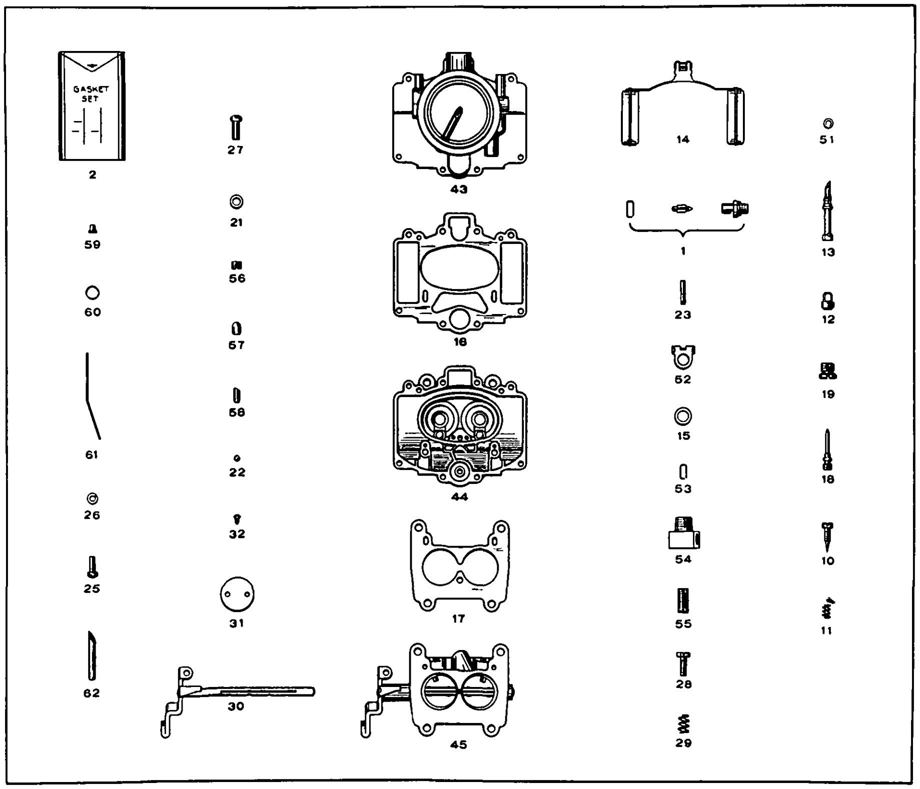
SPARK PLUG—.025" to .028". Clean and adjust at regular intervals.

DISTRIBUTOR—.015". Breaker gap set .015". Replace if necessary.

VALVES—Intake: .015". Exhaust: .015". Engine hot.

IGNITION TIMING—Breaker contacts to open for No. 1 cylinder when flywheel mark is opposite index line on housing.

SERVICE RECOMMENDATION—Check heat control valves and damper valve to see that they are free during their entire travel and that thermostats are properly positioned.



SERVICE REPLACEMENT PARTS LIST

Repair Parts Kit No. RK-123

Bin Location	Key No	Part No.	Part Name
	1	**383046**	Float Needle Valve and Seat.. - **(NOT VAR)**
	2	**382399**	Complete Gasket Set
	10	**P-15478**	Idle Needle Valve
	11	**P-18710**	Spring—Idle Needle Valve
	12	**P-24773**	Metering Jet **053″** **(VAR)**
	13	**P-24670**	Main Disch Jet No 32 28 ---- **(NOT VAR)**
	14	**382269**	Float
	15	**P-2885**	Gasket—Float Needle Valve Seat
	16	**382255**	Gasket—Air Horn
	17	**P-24672**	Gasket—Main Body
	18	**382806**	Idle Tube
	19	**P-23902**	Plug—Main Disch Jet
	21	**P-3157**	Lockwasher—Main Body Attach Screw
	22	**P-18772**	Lead Ball
	23	**P-22439**	Pin—Float Fulcrum
	25	**P-2475**	Screw—Air Horn Attach
	26	**P-6668**	Lockwasher—Air Horn Attach Screw
	27	**P-709**	Screw—Main Body Attach
	28	**P-18769**	Screw—Idle Adj
	29	**P-15831**	Spring—Idle Adj Screw
	30	**383051**	Throttle Lever and Stem
	31	**382246**	Throttle Valve (5°)
	32	**P-20904**	Screw—Throttle Valve Attach
	43	**382821**	Air Horn
	44	**382854**	Main Body (complete with **1-1/32′** Venturi **No 7J** High Speed Bleed **No 60** Idle Air Bleed) **(VAR)**
	45	**383045**	Throttle Body (complete with **No 56-58** Idle Holes No 42 Idle Air Bleed Throttle Stem & Valve **(VAR)**
	51	**P-22602**	Gasket—Main Disch Jet
	52	**P-22441**	Hanger—Float
	53	**P-22523**	Clip—Float Needle Valve Seat
	54	**383008**	Tee—Gas Conn
	55	**P-23912**	Strainer—Gasoline
	56	**P-6406**	Plug—Fuel Level Sight
	57	**P-23985**	H S Bleeder No 70 - **(NOT VAR)**
	58	**P-24683**	Idle Air Bleeder No 42 **(NOT VAR)**
	59	**P-15458**	Plug—Idle Channel
	60	**P-23507**	Plug—Idle Disch Holes
	61	**P-24861**	Wire—Idle Channel
	62	**P-24045**	Vent Tube

BENDIX PRODUCTS DIVISION
SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

Printed in U S A

STROMBERG AAV-16 CARBURETOR

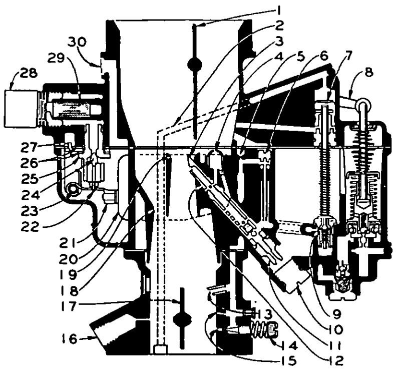
STROMBERG NO. 380029 (CODE NO. 7-37) BUICK SYMBOL NO. 1320493

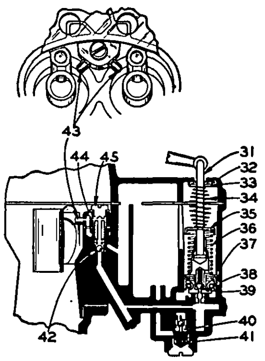
SIZE: 1″ DUAL D. D. 3-HOLE FLANGE

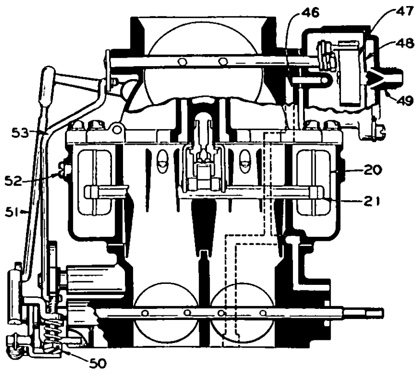
1941
BUICK
MODEL 40
3-3/32″ x 4-1/8″—8 cyl.

PARTS ILLUSTRATED

1. Choke Valve
2. Power Piston Vac. Passage
3. Main Discharge Jet
4. High Speed Bleeder
5. Idle Air Bleeder
6. Idle Tube
7. Vacuum Power Piston
8. Pump Fulcrum Arm
9. Power By-Pass Jet
10. Main Discharge Jet Plug
11. Main Metering Jet
12. Main Dis. Jet Lead Gasket
13. Sec. Idle Air Bleeder
14. Idle Needle Valve
15. Idle Discharge Holes
16. Vacuum Spark Conn.
17. Throttle Valve
18. Primary Venturi
19. Auxiliary Venturi
20. Float
21. Float Lever
22. Float Needle Valve Clip
23. Float Fulcrum Pin
24. Float Needle Valve
25. Float Needle Valve Seat
26. Float Hanger Gaskets
27. Float Hanger
28. Gasoline Inlet
29. Gasoline Strainer
30. Float Chamber Vent
31. Pump Piston Link
32. Felt Dust Washer
33. Retainer Washer
34. Dust Washer Spring
35. Spring Retainer Washer
36. Pump Duration Spring
37. Pump Piston
38. Piston Expansion Spring
39. Pump Relief Valve
40. Pump Inlet Check Valve
41. Pump Inlet Strainer
42. Pump Outlet Check Valve
43. Pump Discharge Nozzles
44. Pump Disch. Restriction
45. Pump Discharge Screw
46. Auto. Choke Vac. Passage
47. Thermostat
48. Screen
49. Hot Air Tube Conn.
50. Throttle Stop Screw
51. Pump Rod
52. Fuel Level Sight Plug
53. Fast Idle Rod







Note—Specifications below are for latest production; previous major changes listed on parts page.

FUEL LEVEL—Measure **19/32″** below top surface of float chamber (without gasket) or level with bottom of level sight hole at **5 lbs.** pressure. To correct fuel level, hold air horn in inverted position. Place Tool **T-24971** on gasket. Tops of floats should be **3/64″** above tops of vertical guides, which will give approximate fuel level; change if necessary. Sides of floats should be tangent to guides of tool without drag.

MAIN METERING SYSTEM—Venturi **1-1/32″**; Main Discharge Jet **No. 32-28** P-24670 (**Tool T-24967**); High Speed Bleeder **No. 70** P-23985. Main Metering Jet **.045″** P-24773 (**Tool T-24924**); Use **Tool T-19099** Screwdriver for removing main jet plug. Main metering system controls the flow of fuel up to approximately 65 to 70 M.P.H.

POWER SYSTEM—Power By-Pass Jet **No. 60** P-24674 Power jet to come into operation at **5″ to 6″** of manifold vacuum, which is approximately 65 to 70 M.P.H. (**Tool T-24733**) used to remove vacuum power piston.

ACCELERATION—Pump Discharge Nozzles **No. 68** P-24594; Pump capacity **11** to **15** c.c. per 10 fast strokes, and **15** to **19** c.c. per 10 slow strokes with pump rod link set in middle setting. (**Tool T-24972**) Pump action takes place during acceleration period only.

IDLE SYSTEM—Idle Discharge holes **Nos. 54-60.** With throttle valve fully closed and **No. 60** drill in idle hole, edge of valve is located **.022″** + — **.004″** from **No. 60** drill; Idle Air Bleed **No. 42** P-24683 (in throttle body), **No. 70** in main body; Idle Tube **No. 70** P-19424. Adjustment: Adjust to smooth running one barrel at a time, OUT to make richer and IN to make leaner; throttle at 7 to 8 M.P.H.

VACUUM SPARK CONTROL—With throttle fully closed and **No. 58** drill in spark hole, edge of valve is located **.041″** + — **.004″** from **No. 58** drill.

FLANGE GASKET—P-20466.

SPECIAL TOOLS REQUIRED—Use Buick complete Tool Kit **SER-373** T-24733 power piston wrench T-24967 Main Discharge Jet Remover; T-24924 Main Metering Jet Wrench; T-24970 By-Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burrette Gauge; T-24968 Handle. T-19099 Main Jet Plug Screwdriver; T-24971 Float Gauge; T-25047 Socket Wrench; T-25057 Auto-Choke Step Gauge, T-25046 Vacuum Piston Setting Gauge. T-25086 Choke Valve Step Gauge.

MOTOR TUNE-UP DATA

SPARK PLUG—.025″ to .028″. Clean and adjust at regular intervals.

DISTRIBUTOR—.015″. Breaker gap set .015″. Replace if necessary.

VALVES—Intake: .015″. Exhaust: .015″. Engine hot.

IGNITION TIMING—The timing mark on flywheel is 1/4″ wide. Breaker contacts to open for No. 1 cylinder when trailing edge of mark is opposite index line on housing.

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

AUTOMATIC CHOKE CONTROL

GENERAL DESCRIPTION

The automatic choke control is built into a housing integral with the carburetor. The principles used in the operation of the automatic choke are manifold vacuum, thermostat spring, and an offset choke valve in the carburetor. The vacuum piston and thermostat are directly connected to the carburetor choke valve and accurately control the opening and closing of the choke valve under varying operating temperatures and at various throttle positions. A tube leading from the exhaust manifold to the thermostat chamber transmits heat to govern the tension of the thermostat spring. A fast idle cam operating in conjunction with the automatic choke provides the proper throttle opening for a cold engine and thereby prevents the engine from stalling during the warming up period

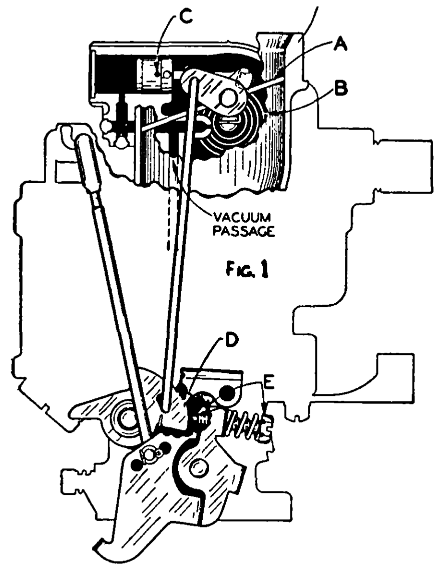


FIG. 1

STARTING ENGINE

For starting an engine that is cold enough to require full closing of the choke valve, additional tension takes place in the throttle-hook-up after the accelerator pedal engages the starter. When starting the engine, the accelerator pedal should be depressed only to the point where the additional tension is noticeable. Moving pedal beyond this point will have a tendency to partially open the choke valve to admit sufficient air to clear manifold if the engine should have become flooded.

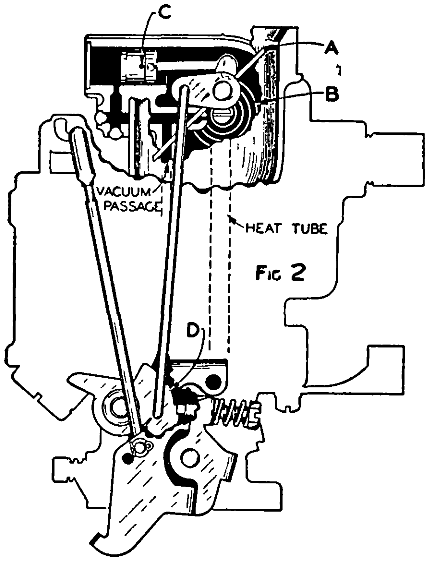


FIG 2

OPERATION AND ADJUSTMENTS

CHOKE CLOSED—FAST IDLE—COLD ENGINE

When the engine becomes cold, the thermostat also cools and gradually gains sufficient tension to partially close the choke valve "A." As soon as the accelerator pedal is depressed to start the engine, the throttle is partially opened so that the throttle stop screw "E" is lifted away from fast idle cam "D." This permits the choke valve to close in accordance with the thermostat tension. The throttle stop screw then comes to rest on a higher lobe of the fast idle cam after the engine is running, providing the proper throttle opening for the prevailing engine temperature. FIG. 1 shows the position of the choke and fast idle mechanism during the cranking period. The choke valve "A" is held in closed position during this operation by the tension of the thermostat "B."

CHOKE PARTIALLY OPENED—ENGINE RUNNING—WARMING UP PERIOD

When the engine begins to fire, the manifold vacuum thus created pulls the vacuum piston "C," opening the choke valve "A" against the tension of the thermostat spring "B." Sufficient air is thereby admitted to give a satisfactory running mixture. As the choke valve opening is increased, the fast idle cam is allowed to revolve so that the throttle stop screw comes to rest on a lower step when the throttle is opened and then permitted to close. FIG. 2.

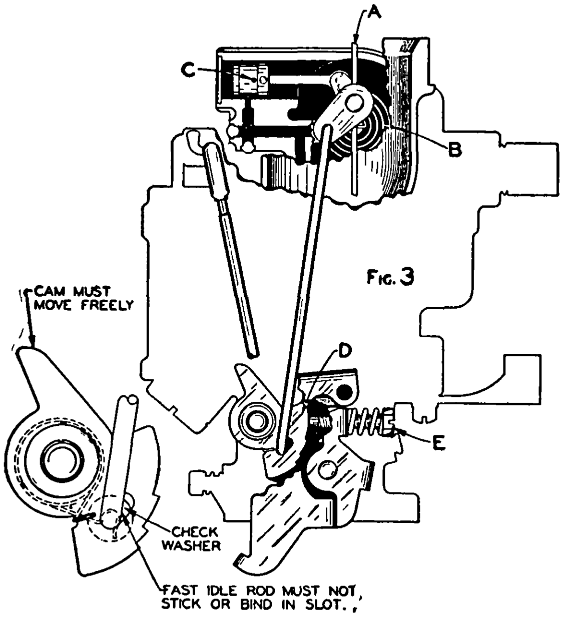
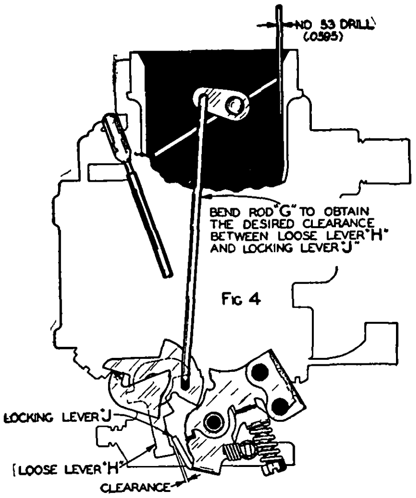


FIG. 3

ENGINE WARM—CHOKE WIDE OPEN—SLOW IDLE

While the engine continues to run, the inrushing air forces the off center choke valve "A" open. The amount the choke valve opens is controlled by the vacuum piston and tension of the thermostat Heat is transmitted into the thermostat chamber by hot air being drawn from a "stove" in the exhaust manifold. The thermostat gradually absorbs sufficient heat so that its tension decreases until it does not offer any further resistance to the choke valve opening, and at the same time the fast idle cam "D" rotates until the throttle stop screw is at normal idle position See FIG. 3. The throttle stop screw should be adjusted for a car speed of 7 to 8 M P H. with the engine at normal operating temperature.

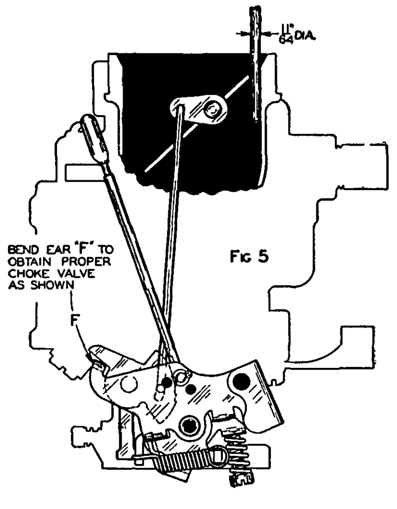
NOTE. The torsonal spring of the fast idle cam has one end connected to the fast idle rod. Make certain that the washer is placed on the rod after the rod is assembled in the cam and that the hook of the spring is properly assembled on the rod. It is very essential that the cam moves freely and that the rod does not stick or bind in the slot of the cam.


NO 53 DRILL (.0595)
BEND ROD "G" TO OBTAIN THE DESIRED CLEARANCE BETWEEN LOOSE LEVER "H" AND LOCKING LEVER "J"
FIG 4
LOCKING LEVER "J"
LOOSE LEVER "H"
CLEARANCE

When checking the "START AID" mechanism, the fast idle cam setting is automatically obtained. The procedure is to hold a **No. 53** drill between the choke valve and the air horn as illustrated in FIG 4.

In this position, locking lever "J" should just clear loose lever "H" while the throttle is opened and closed To obtain the desired clearance, bend the fast idle rod at the point indicated. Care should be taken so as not to distort the fast idle cam return spring or cause a bind between the rod and the slot in the cam.

With the throttle in the wide open position, the space between the top of the valve and the air horn should be between **.156″** and **.187″**. This can be measured by placing a drill of **11/64″** diameter Tool T 25057 between the valve and the air horn, FIG. 5 This setting is properly made at the factory, however, if it is necessary to re adjust it, it can be done by bending ear "F" to the desired position Care should be taken to make certain that the fast idle rod does not bind and the fast idle cam spring is not distorted



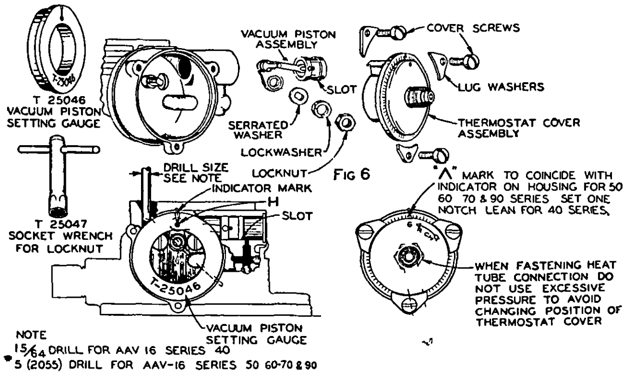
SERVICING THE AUTOMATIC CHOKE CONTROL

The automatic choke control is properly set at the factory. Under ordinary circumstances it will give many miles of satisfactory service.

In the operations of an automatic choke control the one point that must be borne in mind at all times is that all parts of the unit must operate freely and not stick or bind in any position of travel

DISASSEMBLY

1. Remove carburetor from manifold.
2. Remove thermostat cover screws and lug washers
   Thermostat cover assembly can then be taken off of the choke housing.
3. Loosen lock nut, removing lock washer and serrated washer.
4. Remove vacuum piston assembly from housing
5. With a clean rag saturated with acetone or alcohol, thoroughly clean the cylinder walls of any dirt or other foreign material which may have accumulated in regular service. Use compressed air to blow out all of the channels. The surface of the piston should also be thoroughly cleaned Do not use any abrasive materials for cleaning piston or cylinder
6. Thoroughly clean the screen on the inside of the cover by blowing compressed air into the heat tube connection, and also between the screen and the cover, using precaution not to distort the screen.


T 25046
VACUUM PISTON SETTING GAUGE
T-25046
VACUUM PISTON ASSEMBLY
SLOT
SERRATED WASHER
LOCKWASHER
LOCKNUT
COVER SCREWS
LUG WASHERS
THERMOSTAT COVER ASSEMBLY
T 25047
SOCKET WRENCH FOR LOCKNUT
DRILL SIZE SEE NOTE
INDICATOR MARK
H
SLOT
FIG 6
"Λ" MARK TO COINCIDE WITH INDICATOR ON HOUSING FOR 50 60 70 & 90 SERIES SET ONE NOTCH LEAN FOR 40 SERIES.
6
WHEN FASTENING HEAT TUBE CONNECTION DO NOT USE EXCESSIVE PRESSURE TO AVOID CHANGING POSITION OF THERMOSTAT COVER
VACUUM PISTON SETTING GAUGE
NOTE
15/64 DRILL FOR AAV 16 SERIES 40
5 (2055) DRILL FOR AAV-16 SERIES 50 60-70 & 90

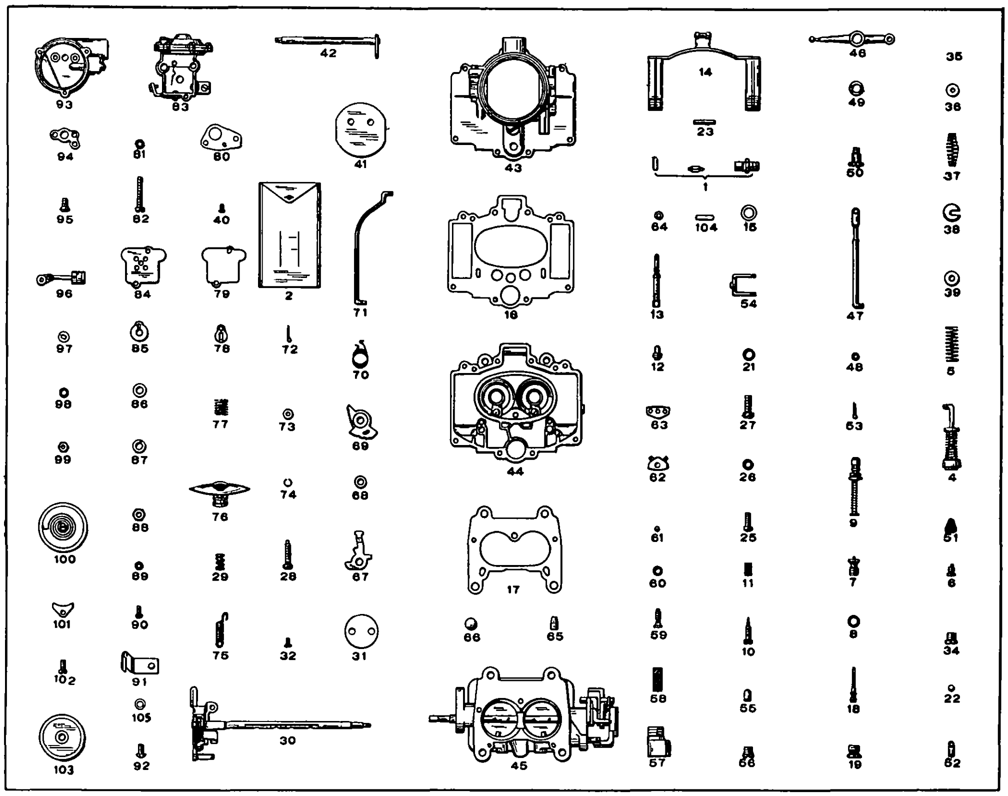
REASSEMBLY

1. Place vacuum piston in cylinder with slot on piston assembled **DOWN. THIS IS VERY IMPORTANT, ALSO DO NOT USE ANY TYPE OF LUBRICANT ON PISTON OR IN CYLINDER.** Assemble lever onto choke stem. Next assemble serrated washer, lockwasher, and locknut, fastening the nut **merely by hand.**
2. Referring to FIG 6, place tool **T-25046** on choke housing with the small hole (H) fitting over the pin of the choke lever. The indication line at the outer diameter of the tool should be set to line up with the projection on the choke housing The tool should be held in this position by hand or two of the cover screws and lug washers can be used to do this.
3. Holding Choke Valve against **15/64″** drill or Tool T-25086 for AAV-16, 40 Series, and **No. 5** drill for AAV-16, 50-60-70 and 90 Series between the choke valve and the Air Horn as illustrated in FIG. 6. Tighten Locknut lightly with Tool T-25047.
4. Remove tool **T-25047** and tool **T-25046.** Hold choke valve in closed position and tighten locknut securely. CHECK CHOKE VALVE OPENING to be certain the setting wasn't disturbed Do not endeavor to change position of serrated washer or piston lever without loosening locknut.

THERMOSTAT SETTING

The thermostat is calibrated and properly set at the factory to give satisfactory performance with the regular blends of gasoline When placing the thermostat cover assembly on the housing, use precaution that the edge of the screen is not crimped or creased to cause a leak. Locate the thermostat hook at the bottom of the housing and then rotate the cover in the "RICH" direction until the "V" mark coincides with the projection on the housing. **Set 1 notch lean for 40 Series.** This procedure is recommended to make certain that the thermostat hook contacts the pin on the choke lever Place the lugs in position and fasten the cover screws securely If extremely high volatile fuel is continuously used or if some exceptional condition is encountered, it may be desirable to slightly vary the adjustment of the cover to obtain the best possible performance. **Do not, however, vary the adjustment more than two graduations in either direction.** The thermostat need not be changed unless some part of the assembly has been tampered with or is damaged In such cases it is necessary to replace the entire assembly. The numeral **"6"** is stamped on the face of the thermostat cover to distinguish them from covers used on previous models. NOTE: When assembling heat tube connection nut onto thermostat cover do not use excessive pressure in order to avoid changing the position of the cover.

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No	Part No	Part Name
	1	**P-22499**	Float Needle Valve Clip & Seat 101″ **(NOT VAR)**
	2	**J-5656-G**	Complete Gasket Set
	4	**P-24675**	Pump Piston Link and Spring (Complete)
	5	**P-24676**	Spring—Pump Duration
	6	**P-18144**	Pump Inlet Check Valve
	7	**P-24674**	Power By Pass Jet No 60 **(NOT VAR)**
	8	**P-19448**	Gasket—By Pass Jet
	9	**P-22803**	Vacuum Power Piston
	10	**P-15478**	Idle Needle Valve
	11	**P-18710**	Spring—Idle Needle Valve
	12	**P-24773**	Metering Jet **045″** **(VAR)**
	13	**P-24670**	Main Disch Jet No 32 28 **(NOT VAR)**
	14	**P-24780**	Float with Lever
	15	**P-2885**	Gasket—Float Needle Valve Seat
	16	**P-24727**	Gasket—Air Horn
	17	**P-24672**	Gasket—Main Body
	18	**P-19424**	Idle Tube
	19	**P-23902**	Plug—Main Discharge Jet
	21	**P-3157**	Lockwasher—Main Body Attach Screw
	22	**P-18772**	Lead Ball
	23	**P-22439**	Fulcrum Pin—Float Lever
	25	**P-2475**	Screw—Air Horn Attaching
	26	**P-6668**	Lockwasher—Air Horn Attaching Screw
	27	**P-709**	Screw—Main Body Attaching
	28	**P-19103**	Screw—Throttle Stop
	29	**P-15831**	Spring—Throttle Stop Screw
	30	**P-24679**	Throttle Lever and Stem
	31	**P-24684**	Throttle Valve (5°) **(NOT VAR)**
	32	**P-20904**	Screw—Throttle Valve Attaching
	34	**P-24678**	Plug—Check Valve
	35	**P-17380**	Washer—Felt
	36	**P-17060**	Washer—Splash—Pump Link
	37	**P-22643**	Spring—Packing Retainer
	38	**P-22045**	Washer—Cup
	39	**P-22046**	Washer—Spring Retainer
	40	**P-4522**	Screw—Choke Valve Attach
	41	**P-23913**	Choke Valve
	42	**P-23959**	Choke Stem and Lever
	43	**P-24713**	Assy —Air Horn
	44	**P-24711**	Assy —Main Body **1-1/32″** Venturi **No 70** H S Bleeder **No 70** Idle Air Bleed **(VAR)**
	*45	382230	Assy —Throttle Body **No 54-60** Idle Disch Hole **No** 42 Air Bleed **(VAR)**
	46	**P-24677**	Pump Lever
	47	**P-22620**	Pump Rod
	48	**P-9394**	Washer—Pump Rod
	49	**P-19820**	Spring—Washer—Pump Lever Fulcrum Screw
	50	**P-20611**	Fulcrum Screw—Pump Lever
	51	**P-23858**	Strainer—Check Valve
	52	**P-24683**	Idle Air Bleeder No 42 **(NOT VAR)**
	53	**P-7170**	Cotter Pin—Pump Rod and Pump Link
	54	**P-22441**	Float Hanger

*Indicates New Part

Bin Location	Key No.	Part No	Part Name
	55	**P-23985**	High Speed Bleeder No 70 **(NOT VAR)**
	56	**P-6406**	Plug—Float Level Sight
	57	**P-23911**	Elbow—Gas Connection
	58	**P-23912**	Strainer—Gasoline
	59	**P-24669**	Screw—Pump Disch Nozzle Attach
	60	**P-17063**	Gasket—Pump Disch Nozzle Attach Screw
	61	**P-17030**	Ball—Pump Disch Channel Check Valve
	62	**P-24594**	Nozzle—Pump Discharge **No 68** **(VAR)**
	63	**P-24668**	Gasket—Pump Discharge Nozzle
	64	**P-22602**	Lead Gasket—Main Disch Jet
	65	**P-15458**	Plug—Idle Channel
	66	**P-23507**	Expansion Plug—Idle Disch Hole
	67	**P-24662**	Lever—Start Aid Loose Lever Lock
	68	**P-23203**	Washer—Start Aid Loose Lever Lock Lever Spacer
	69	**P-24685**	Fast Idle Cam
	70	**P-23952**	Spring—Fast Idle Cam
	71	**P-24728**	Fast Idle Rod
	72	**112-S-1**	Cotter Pin—Fast Idle Rod
	73	**P-21032**	Washer—Fast Idle Rod
	74	**P-23974**	Snap Ring—Fast Idle
	75	**P-24681**	Spring—Start Aid Loose Lever
	*76	382200	Diaphragm—Starter Switch
	*77	382199	Spring—Diaphragm Return
	78	**P-24693**	Washer—Starting Switch Adjusting **(VAR)**
	79	**P-24733**	Gasket—Starting Switch Cover
	80	**P-24694**	Gasket—Starting Switch Housing
	81	**40-S-49**	Lockwasher—Starting Switch Housing Attach Screw
	82	**61-S-45**	Screw—Starting Switch Housing Attach Screw
	83	**P-24690**	Housing—Starting Switch
	84	**P-24691**	Cover—Starting Switch
	85	**P-24692**	Rotor—Starting Switch
	86	**P-24732**	Washer—Starting Switch Rotor—Rear
	87	**40-S-1**	Lockwasher—Starting Switch Rotor Attach Nut
	88	**P-24731**	Nut—Starting Switch Rotor Attach
	89	**40-S-18**	Lockwasher—Starting Switch Cover Att Screw
	90	**61-S-24**	Screw—Starting Switch Cover Attach
	91	**P-24643**	Spring Clips
	92	**49-S-14**	Screw—Starter Switch Cover Attach
	93	**P-24714**	Assy —Choke Housing
	94	**P-23297**	Gasket—Auto Choke Housing
	95	**P-23918**	Screw—Auto Choke Housing Attach
	96	**P-23919**	Vacuum Piston with Link and Lever
	97	**P-23933**	Washer—Thermostat Lever Adj
	98	**P-15875**	Lockwasher—Vac Piston and Link Attach Nut
	99	**P-16571**	Nut—Vac Piston and Link Attach
	100	**P-24687**	Thermostat Cover with Thermostat
	101	**P-23932**	Washer—Thermostat Cover Attach Screw
	102	**P-2866**	Screw—Thermostat Cover Attach Screw
	103	**P-23927**	Screen—Thermostat Cover
	104	**P-22523**	Clip—Float Needle Valve
	105	**40-S-47**	Lockwasher—Starter Switch Cover Attach Screw
	106	**P-24861**	Wire—Idle Channel (Not illustrated)

*Indicates New Parts

BENDIX PRODUCTS DIVISION
SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

STROMBERG AAV-16 CARBURETOR

FRONT CARBURETOR OF COMPOUND INSTALLATION

STROMBERG NO. 380064 (CODE NO. 7-44) BUICK SYMBOL NO. 1325111

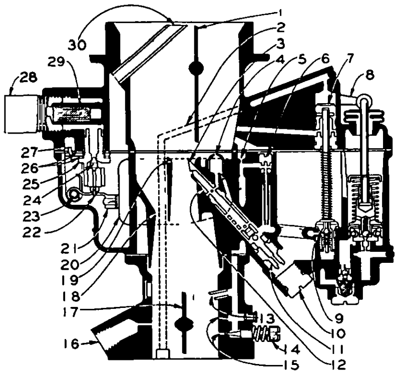
SIZE: 1″ DUAL D. D. 3-HOLE FLANGE

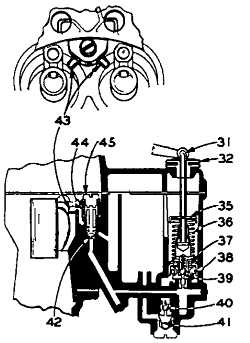
THIS UNIT SUPERSEDES AAV-16 EQPT. NO. 380032 (CODE NO. 7-39B) BUICK SYM. NO. 1317969

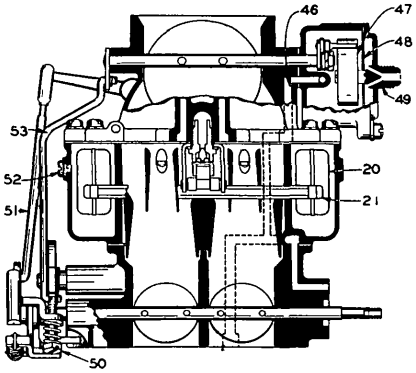
1941
BUICK
MODELS 60-70-90
3-7/16″ x 4-5/16″—8 cyl.

PARTS ILLUSTRATED

1. Choke Valve
2. Power Piston Vac. Passage
3. Main Discharge Jet
4. High Speed Bleeder
5. Idle Air Bleeder
6. Idle Tube
7. Vacuum Power Piston
8. Pump Fulcrum Arm
9. Power By-Pass Jet
10. Main Discharge Jet Plug
11. Metering Jet
12. Main Dis. Jet Lead Gasket
13. Sec. Idle Air Bleeder
14. Idle Needle Valve
15. Idle Discharge Holes
16. Vacuum Spark Conn
17. Throttle Valve
18. Primary Venturi
19. Auxiliary Venturi
20. Float
21. Float Lever
22. Float Needle Valve Clip
23. Float Fulcrum Pin
24. Float Needle Valve
25. Float Needle Valve Seat
26. Float Hanger Gaskets
27. Float Hanger
28. Gasoline Inlet
29. Gasoline Strainer
30. Vent Tube
31. Pump Piston Link
32. Pump Piston Link Seal
35. Spring Retainer Washer
36. Pump Duration Spring
37. Pump Piston
38. Pump Expansion Spring
39. Pump Relief Valve
40. Pump Inlet Check Valve
41. Pump Inlet Strainer
42. Pump Outlet Check Valve
43. Pump Discharge Nozzles
44. Pump Disch. Restriction
45. Pump Discharge Screw
46. Auto. Choke Vac. Passage
47. Thermostat
48. Screen
49. Hot Air Tube Conn
50. Throttle Stop Screw
51. Pump Rod
52. Fuel Level Sight Plug
53. Fast Idle Rod







Note—Specifications below are for latest production; previous major changes listed on parts page.

FUEL LEVEL—Measure **19/32″** below top surface of float chamber (without gasket) or level with bottom of level sight hole at **5 lbs.** pressure. To correct fuel level, hold air horn in inverted position. Place Tool **T-24971** on gasket. Tops of floats should be **1/32″** below tops of vertical guides, which will give approximate fuel level; change if necessary. Sides of floats should be parallel to guides of tool without drag.

MAIN METERING SYSTEM—Venturi **1-1/32″**; Main Discharge Jet **No. 32-28** P-24670 (**Tool T-24967**); High Speed Bleeder **No. 70** P-23985. Main Metering Jet **.047″** P-24773 (**Tool T-24924**); Use **Tool T-19099** Screwdriver for removing main jet plug. Main metering system controls the flow of fuel up to approximately 65 to 70 M.P.H.

POWER SYSTEM—Power By-Pass Jet **No. 56** P-21657 Power jet to come into operation at **5″ to 6″** of manifold vacuum, which is approximately 65 to 70 M.P.H. (**Tool T-24733**) used to remove vacuum power piston.

ACCELERATION—Pump Discharge Nozzles **No. 68** P-24594; Pump capacity **11** to **15** c.c. per 10 fast strokes, and **16** to **20** c.c. per 10 slow strokes with pump rod link set in middle setting. (**Tool T-24972**) Pump action takes place during acceleration period only.

IDLE SYSTEM (See Note on Page 2)—Idle Discharge holes **Nos. 54-58.** With throttle valve fully closed and **No. 58** drill in idle hole, edge of valve is located **.010″ + — .004″** from **No. 58** drill; Idle Air Bleed **No. 42** P-24683 (in throttle body), **No. 60** in main body; Idle Tube **No. 70** 382806. Adjustment: Adjust to smooth running one barrel at a time, OUT to make richer and IN to make leaner; throttle at 7 to 8 M.P.H. (See Page 4, Form 10C-704, Starter Switch and Throttle Hook-up Information.)

VACUUM SPARK CONTROL—With throttle fully closed and **No. 58** drill in spark hole, edge of valve is located **.080″ + — .004″** from **No. 58** drill.

AUTOMATIC CHOKE AND THERMOSTAT SETTINGS—See automatic choke control, operation and adjustment form 10C-712 Buick section of this catalog.

SETTING B—No. 53 Drill
SETTING C—11/64″ Dia. Drill, Tool T-25057
SETTING D—No. 5 Drill
SETTING E—No. 6 Identification Mark

FLANGE GASKET—P-20466

SPECIAL TOOLS mentioned above contained in Tool Kit SER-459. See Form 10-265A.

MOTOR TUNE-UP DATA

SPARK PLUG—.025″ to .028″. Clean and adjust at regular intervals.

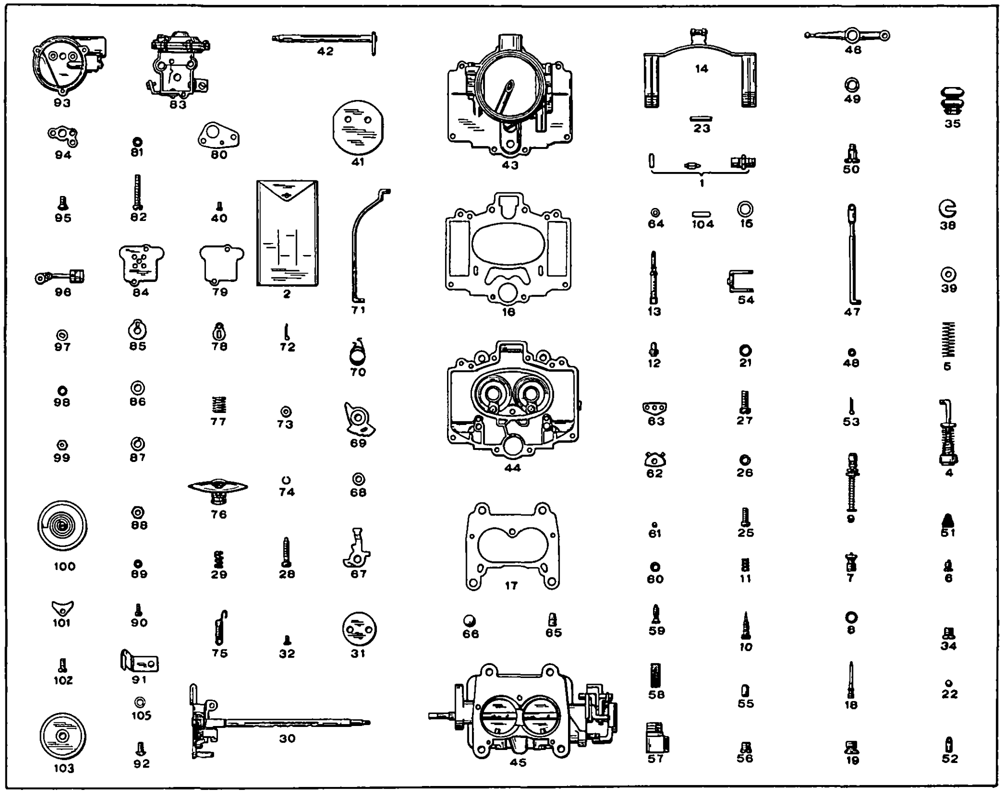
DISTRIBUTOR—.015″. Breaker gap set .015″. Replace if necessary.

VALVES—Intake: .015″. Exhaust: .015″. Engine hot.

IGNITION TIMING—Breaker contacts to open for No. 1 cylinder when flywheel mark is opposite index line on housing.

SERVICE RECOMMENDATION—Check heat control valves and damper valve to see that they are free during their entire travel and that thermostats are properly positioned.

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Repair Parts Kit No. RK-116

Bin Location	Key No	Part No	Part Name
	1	P-22498	Float Needle Valve Clip and Seat 093" (NOT VAR
	* 2	382398	Complete Gasket Set
	* 4	382239	Pump Piston Link and Spring (Complete)
	5	P-24676	Spring—Pump Duration
	6	P-18144	Pump Inlet Check Valve
	7	P-21657	Power By Pass Jet No 56 (NOT VAR)
	8	P-19448	Gasket—By Pass Jet
	9	P-22803	Vacuum Power Piston
	10	P-15478	Idle Needle Valve
	11	P-18710	Spring—Idle Needle Valve
	12	P-24773	Metering Jet 047" (VAR)
	13	P-24670	Main Disch Jet No 32 28 (NOT VAR)
	*14	382269	Float with Lever
	15	P-2885	Gasket—Float Needle Valve Seat
	*16	382255	Gasket—Air Horn
	17	P-24672	Gasket—Main Body
	*18	382806	Idle Tube
	19	P-23902	Plug—Main Discharge Jet
	21	P-3157	Lockwasher—Main Body Attach Screw
	22	P-18772	Lead Ball
	23	P-22439	Fulcrum Pin—Float Lever
	25	P-2475	Screw—Air Horn Attaching
	26	P-6668	Lockwasher—Air Horn Attaching Screw
	27	P-709	Screw—Main Body Attaching
	28	P-19103	Screw—Throttle Stop
	29	P-15831	Spring—Throttle Stop Screw
	*30	382243	Throttle Lever and Stem
	‡31	382600	Throttle Valve
	32	P-20904	Screw—Throttle Valve Attaching
	34	P-24678	Plug—Check Valve
	*35	382242	Seal—Pump Piston Link
	38	P-22045	Washer—Cup
	39	P-22046	Washer—Spring Retainer
	40	P-4522	Screw—Choke Valve Attach
	41	P-23913	Choke Valve
	*42	382253	Choke Stem and Lever
	*43	382819	Assy —Air Horn
		P-24045	Vent Tube
	*44	382856	Assy —Main Body 1-1/32' Venturi **No** 60 H S Bleeder **No** 60 Idle Air Bleed (VAR)
	*45	382855	Throttle Valve (complete with **No** 54-58 idle hole **No** 42 idle air bleed throttle stem and valve) (VAR)
	46	P-24677	Pump Lever
	47	P-22620	Pump Rod
	48	P-9394	Washer—Pump Rod
	49	P-19820	Spring—Washer—Pump Lever Fulcrum Screw
	50	P-20611	Fulcrum Screw—Pump Lever
	51	P-23858	Strainer—Check Valve
	52	P-24683	Idle Air Bleeder No 42 (NOT VAR)
	53	P-7170	Cotter Pin—Pump Rod and Pump Link
	54	P-22441	Float Hanger
	55	P-23985	High Speed Bleeder No 70 (NOT VAR)
	56	P-6406	Plug—Float Level Sight
	57	P-23911	Elbow—Gas Connection
	58	P-23912	Strainer—Gasoline
	59	P-24669	Screw—Pump Disch Nozzle Attach
	60	P-17063	Gasket—Pump Disch Nozzle Attach Screw
	61	P-17030	Ball—Pump Disch Channel Check Valve
	62	P-24594	Nozzle—Pump Discharge **No** 68 (VAR)
	63	P-24668	Gasket—Pump Discharge Nozzle
	64	P-22602	Lead Gasket—Main Disch Jet
	65	P-15458	Plug—Idle Channel
	66	P-23507	Expansion Plug—Idle Disch Hole
	*67	382247	Lever—Start Aid Loose Lever Lock
	68	P-23203	Washer—Start Aid Loose Lever Lock Lever Spacer
	*69	382248	Fast Idle Cam
	70	P-23952	Spring—Fast Idle Cam
	71	P-24728	Fast Idle Rod
	72	112-S-1	Cotter Pin—Fast Idle Rod
	73	P-21032	Washer—Fast Idle Rod
	74	P-23974	Snap Ring—Fast Idle
	*75	382245	Spring—Start Aid Loose Lever
	*76	382200	Diaphragm—Starter Switch
	*77	382199	Spring—Diaphragm Return
	78	P-24693	Washer—Starting Switch Adjusting (VAR)
	79	P-24733	Gasket—Starting Switch Cover
	80	P-24694	Gasket—Starting Switch Housing
	81	40-S-49	Lockwasher—Starting Switch Housing Attach Screw
	82	61-S-45	Screw—Starting Switch Housing Attach Screw
	83	P-24690	Housing—Starting Switch
	84	P-24691	Cover—Starting Switch
	85	P-24692	Rotor—Starting Switch
	86	P-24732	Washer—Starting Switch Rotor—Rear
	87	40-S-1	Lockwasher—Starting Switch Rotor Attach Nut
	88	P-24731	Nut—Starting Switch Rotor Attach
	89	40-S-18	Lockwasher—Starting Switch Cover Att Screw
	90	61-S-24	Screw—Starting Switch Cover Attach
	91	382493	Spring Clips
	92	49-S-14	Screw—Starter Switch Cover Attach
	93	P-24714	Assy —Choke Housing
	94	P-23297	Gasket—Auto Choke Housing
	95	P-23918	Screw—Auto Choke Housing Attach
	96	P-23919	Vacuum Piston with Link and Lever
	97	P-23933	Washer—Thermostat Lever Adj
	98	P-15875	Lockwasher—Vac Piston and Link Attach Nut
	99	P-16571	Nut—Vac Piston and Link Attach
	100	P-24687	Thermostat Cover with Thermostat
	101	P-23932	Washer—Thermostat Cover Attach Screw
	102	P-2866	Screw—Thermostat Cover Attach Screw
	103	P-23927	Screen—Thermostat Cover
	104	P-22523	Clip—Float Needle Valve
	105	40-S-47	Lockwasher—Starter Switch Cover Attach Screw
	106	P-24861	Wire—Idle Channel (Not illustrated)

*Indicates New Part

‡When repairing or ordering parts for Carburetors with Code No 7-39 it is necessary to make the following changes Key No 31—Use No 382246 Throttle Valve in place of No 382600 and set at 022" + — 004" instead of 010" + — 004" The difference between these valves can be determined by the notch which appears on the edge of Part 382600 only When lean OFF idle condition is encountered on Carburetors with Code No 7-39 use No 382698 Throttle Valve and set 010" + — 004" instead of No 382246 Valve

BENDIX PRODUCTS DIVISION

SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

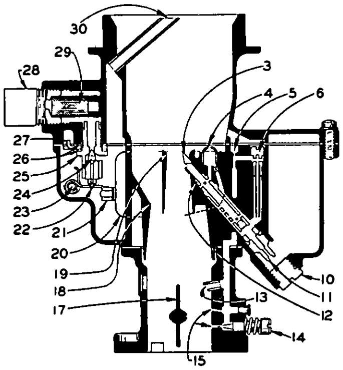
Printed in U S A

STROMBERG AA-1 CARBURETOR

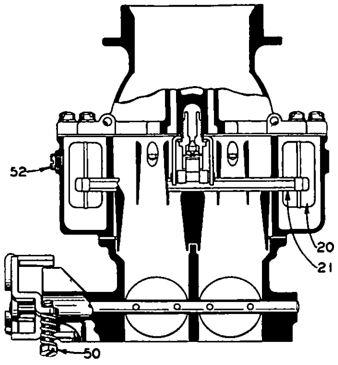
REAR CARBURETOR OF COMPOUND INSTALLATION
STROMBERG NO. 380065 (CODE NO. 7-45A) BUICK SYMBOL NO. 1325112
SIZE: 1" DUAL D. D. 3-HOLE FLANGE
THIS UNIT SUPERSEDES AA-1 EQUIPMENT NO. 380034 (CODE NO. 7-41) BUICK SYMBOL NO. 1317964

1941
BUICK

MODELS 60-70-90
3-7/16" x 4-5/16"—8 cyl.



3.	Main Disch Jet	20	Float
4.	High Speed Bleeder	21	Float Lever
5	Idle Air Bleeder	22.	Float Needle Valve Clip
6.	Idle Tube	23.	Float Fulcrum Pin
10.	Main Disch Jet Plug	24.	Float Needle Valve
11	Metering Jet	25.	Float Needle Valve Seat
12.	Main Dis Jet Lead Gasket	26	Float Hanger Gasket
13.	Sec Idle Air Bleeder	27	Float Hanger
14	Idle Needle Valve	28	Gasoline Inlet
15	Idle Disch Holes	29.	Gasoline Strainer
17	Throttle Valve	30	Vent Tube
18	Primary Venturi	50	Throttle Stop Screw
19	Auxiliary Venturi	52	Fuel Level Sight Plug



Note—Specifications below are for latest production; previous major changes listed on parts page.

FUEL LEVEL—Measure **19/32"** below top surface of float chamber (without gasket) or level with bottom of level sight hole. To correct fuel level, hold air horn in inverted position. Place **Tool T-24971** on gasket. Tops of floats should be **1/32" below** tops of vertical guides, which will give approximate fuel level; change if necessary. Sides of floats should be parallel to guides of tool without drag.

MAIN METERING SYSTEM – Venturi **1-1/32"**; Main Discharge Jet **No. 32-28** P-24670 (**Tool T-24967**); High Speed Bleeder **No. 70** in body. P-23985 Main Metering Jet **.053"** P-24773 (**Tool T-24924**); Use **Tool T-19099** Screwdriver for removing main jet plug. Main metering system controls the flow of fuel up to approximately 65 to 70 M.P.H.

IDLE SYSTEM—Idle Discharge holes **Nos. 54-58.** With throttle valve fully closed and **No. 58** drill in idle hole, edge of valve is located **.022" + — .004"** from **No. 58** drill; Idle Air Bleed **No. 42** P-24683 (in throttle body), **No. 60** in main body; Idle Tube **No. 70** 382806. Adjustment: Adjust to smooth running one barrel at a time, OUT to make richer and IN to make leaner; throttle at 7 to 8 M.P.H. (See Page 4 Form 10C-704 Starter Switch and Throttle Hook-up Information.)

FLANGE GASKET—P-20466.

SPECIAL TOOLS MENTIONED ABOVE CONTAINED IN TOOL KIT SER-459 SEE FORM 10-265A

MOTOR TUNE-UP DATA

SPARK PLUG—.025" to .028". Clean and adjust at regular intervals.

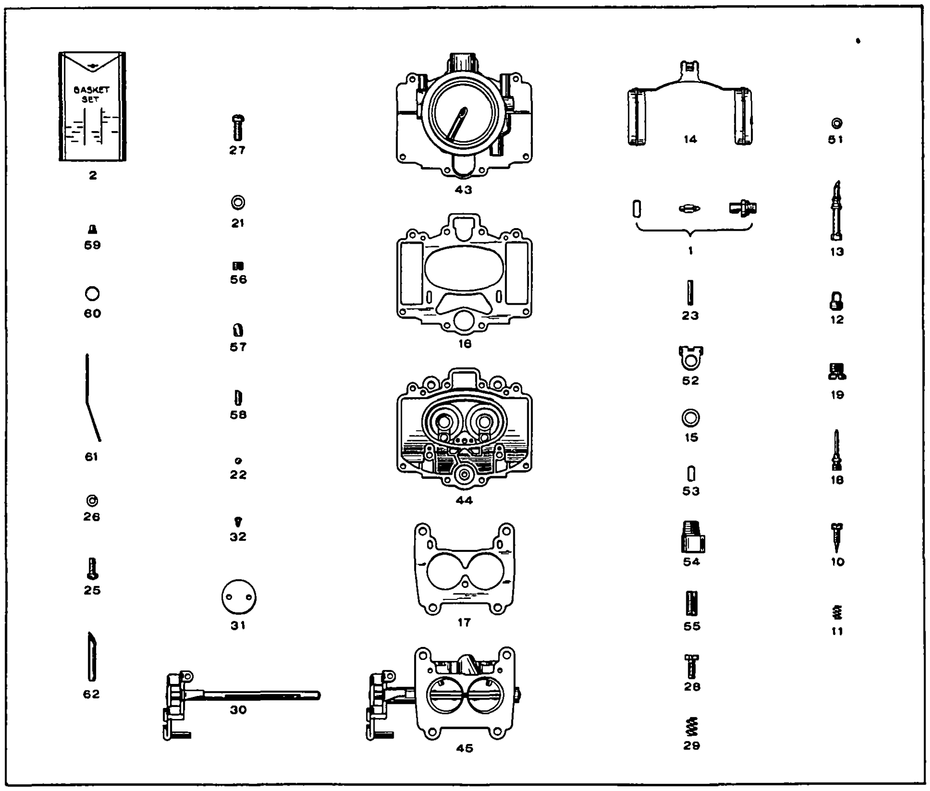
DISTRIBUTOR—.015". Breaker gap set .015". Replace if necessary.

VALVES—Intake: .015". Exhaust: .015". Engine hot.

IGNITION TIMING—Breaker contacts to open for No. 1 cylinder when flywheel mark is opposite index line on housing.

SERVICE RECOMMENDATION—Check heat control valves and damper valve to see that they are free during their entire travel and that thermostats are properly positioned.

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Repair Parts Kit No. RK-117

Bin Loca-tion	Key No.	Part No.	Part Name	
	1	P-22498	Float Needle Valve and Seat	(NOT VAR)
	2	382399	Complete Gasket Set	
	10	P-15478	Idle Needle Valve	
	11	P-18710	Spring—Idle Needle Valve	
	12	P-24773	Metering Jet 053″	(VAR)
	13	P-24670	Main Disch Jet No 32 28	(NOT VAR)
	14	382269	Float	
	15	P-2885	Gasket—Float Needle Valve Seat	
	16	382255	Gasket—Air Horn	
	17	P-24672	Gasket—Main Body	
	18	382806	Idle Tube	
	19	P-23902	Plug—Main Disch Jet	
	21	P-3157	Lockwasher—Main Body Attach Screw	
	22	P-18772	Lead Ball	
	23	P-22433	Pin—Float Fulcrum	
	25	P-2475	Screw—Air Horn Attach	
	26	P-6668	Lockwasher—Air Horn Attach Screw	
	27	P-709	Screw—Main Body Attach	
	28	P-18769	Screw—Idle Adj	
	29	P-15831	Spring—Idle Adj Screw	

Bin Loca-tion	Key No	Part No	Part Name	
	30	382261	Throttle Lever and Stem	
	31	382246	Throttle Valve (5°)	
	32	P-20904	Screw—Throttle Valve Attach	
	43	382821	Air Horn	
	44	382854	Main Body (complete with 1-1/32′ Venturi **No** 70 High Speed Bleed **No** 60 Idle Air Bleed)	(VAR)
	45	382851	Throttle Body (complete with **No** 54-58 Idle Holes Throttle Stem and Valve	(VAR)
	51	P-22602	Gasket—Main Disch Jet	
	52	P-22441	Hanger—Float	
	53	P-22523	Clip—Float Needle Valve Seat	
	54	P-23911	Elbow—Gas Conn	
	55	P-23912	Strainer—Gasoline	
	56	P-6406	Plug—Fuel Level Sight	
	57	P-23985	H S Bleeder No 70	(NOT VAR)
	58	P-24683	Idle Air Bleeder No 42	(NOT VAR)
	59	P-15458	Plug—Idle Channel	
	60	P-23507	Plug—Idle Disch Holes	
	61	P-24861	Wire—Idle Channel	
	62	P-24045	Vent Tube	

BENDIX PRODUCTS DIVISION

SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

STROMBERG AAV-16 CARBURETOR

FRONT CARBURETOR OF COMPOUND INSTALLATION

STROMBERG NO. 380066 (CODE NO 7-46) BUICK SYMBOL NO 1325109

SIZE· 1" DUAL D D. 3-HOLE FLANGE

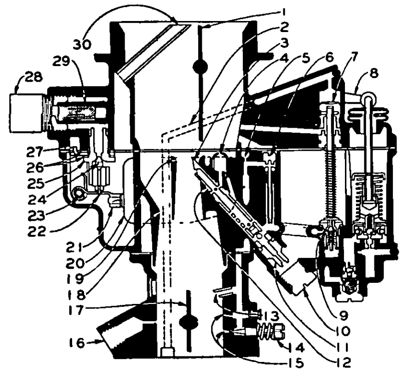
THIS UNIT SUPERSEDES AAV-16 EQPT. NO. 380042 (CODE NO. 7-42B) BUICK SYM. NO. 1321277

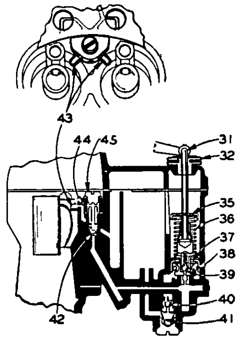
1941 BUICK

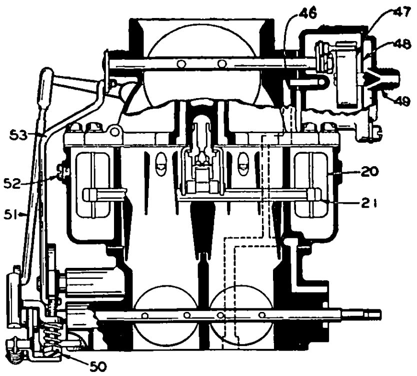
MODEL 50

3-3/32" x 4-1/8"—8 cyl.

PARTS ILLUSTRATED







1.	Choke Valve
2	Power Piston Vac Passage
3.	Main Discharge Jet
4	High Speed Bleeder
5	Idle Air Bleeder
6.	Idle Tube
7.	Vacuum Power Piston
8	Pump Fulcrum Arm
9	Power By-Pass Jet
10	Main Discharge Jet Plug
11	Metering Jet
12	Main Dis Jet Lead Gasket
13	Sec Idle Air Bleeder
14	Idle Needle Valve
15	Idle Discharge Holes
16	Vacuum Spark Conn.
17	Throttle Valve
18	Primary Venturi
19	Auxiliary Venturi
20	Float
21	Float Lever
22	Float Needle Valve Clip
23	Float Fulcrum Pin
24	Float Needle Valve
25	Float Needle Valve Seat
26	Float Hanger Gaskets
27	Float Hanger
28	Gasoline Inlet
29	Gasoline Strainer
30	Vent Tube
31	Pump Piston Link
32	Pump Piston Link Seal
35	Spring Retainer Washer
36	Pump Duration Spring
37	Pump Piston
38	Pump Expansion Spring
39	Pump Relief Valve
40	Pump Inlet Check Valve
41	Pump Inlet Strainer
42	Pump Outlet Check Valve
43	Pump Discharge Nozzles
44	Pump Disch Restriction
45	Pump Discharge Screw
46	Auto Choke Vac Passage
47	Thermostat
48	Screen
49	Hot Air Tube Conn
50	Throttle Stop Screw
51	Pump Rod
52	Fuel Level Sight Plug
53	Fast Idle Rod

NOTE—Specifications below are for latest production; previous major changes listed on parts page.

FUEL LEVEL—Measure **19/32"** below top surface of float chamber (without gasket) or level with bottom of level sight hole at **5 lbs.** pressure. To correct fuel level, hold air horn in inverted position. Place Tool **T-24971** on gasket. Tops of floats should be **1/32"** below tops of vertical guides, which will give approximate fuel level; change if necessary. Sides of floats should be parallel to guides of tool without drag.

MAIN METERING SYSTEM — Venturi 15/16"; Main Discharge Jet **No. 32-28** P-24670 (**Tool T-24967**); High Speed Bleeder **No. 70** P-23985. Main Metering Jet **.041"** P-24773 (**Tool T-24924**); Use **Tool T-19099** Screwdriver for removing main jet plug. Main metering system controls the flow of fuel up to approximately 65 to 70 M.P.H.

POWER SYSTEM—Power By-Pass Jet **No. 60** P-24674 Power jet to come into operation at **5" to 6"** of manifold vacuum, which is approximately 65 to 70 M.P.H. (**Tool T-24733**) used to remove vacuum power piston.

ACCELERATION—Pump Discharge Nozzles **No. 68** P-24594; Pump capacity **11** to **15** c.c. per 10 fast strokes, and **16** to **20** c.c. per 10 slow strokes with pump rod link set in middle setting. (**Tool T-24972**) Pump action takes place during acceleration period only.

IDLE SYSTEM (See Note on Page 2)—Idle Discharge holes **Nos. 54-58.** With throttle valve fully closed and **No. 58** drill in idle hole, edge of valve is located **.010" + — .004"** from **No. 58** drill; Idle Air Bleed **No. 42** P-24683 (in throttle body), **No. 65** in main body; Idle Tube **No. 70** 382806. Adjustment: Adjust to smooth running one barrel at a time, OUT to make richer and IN to make leaner; throttle at 7 to 8 M.P.H. (See Page 4, Form 10C-704, Starter Switch and Throttle Hook-up Information.)

VACUUM SPARK CONTROL—With throttle fully closed and **No. 58** drill in spark hole, edge of valve is located **.030" + — .004"** from **No. 58** drill.

AUTOMATIC CHOKE AND THERMOSTAT SETTINGS—See automatic choke control, operation and adjustment form 10C-712 Buick section of this catalog.

SETTING B—No. 53 Drill
SETTING C—11/64" Dia. Drill, T-25057
SETTING D—No. 5 Drill
SETTING E—No. 6 Identification Mark

FLANGE GASKET—P-20466

SPECIAL TOOLS mentioned above contained in Tool Kit SER-459. See Form 10-265A.

MOTOR TUNE-UP DATA

SPARK PLUG—.025" to .028". Clean and adjust at regular intervals.

DISTRIBUTOR—.015". Breaker gap set .015". Replace if necessary.

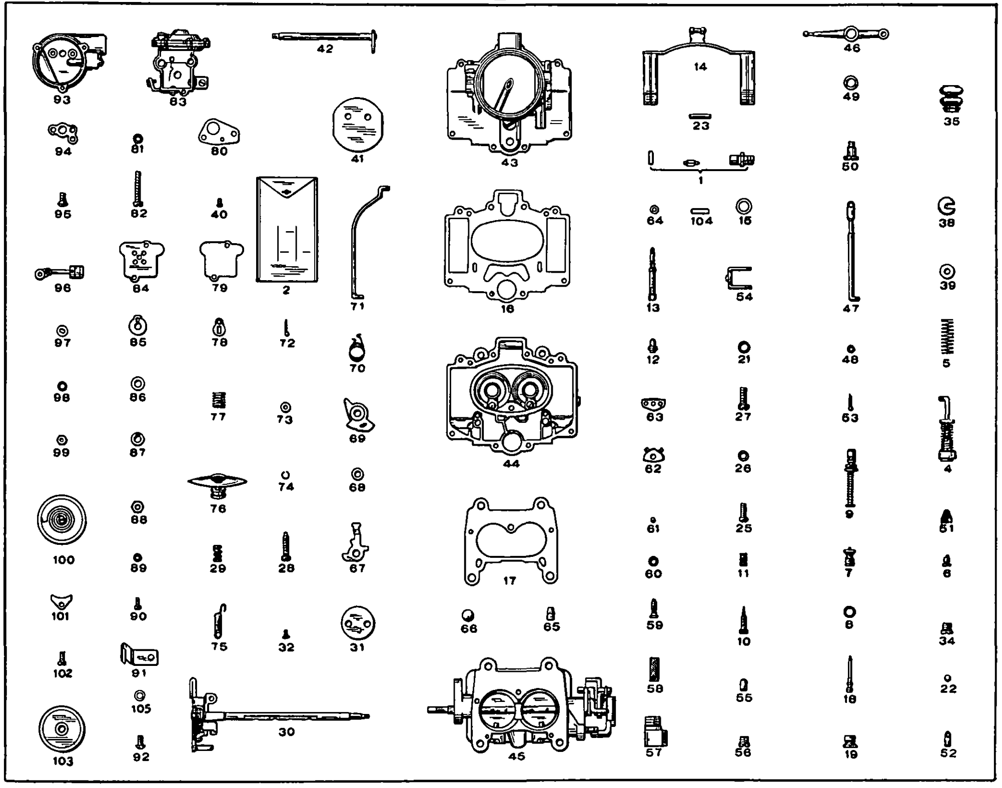
VALVES—Intake: .015". Exhaust: .015". Engine hot.

IGNITION TIMING—The timing mark on flywheel is 1/4" wide. Breaker contacts to open for No. 1 cylinder when leading edge of mark is opposite index line on housing.

SERVICE RECOMMENDATION—Check heat control valves and damper valve to see that they are free during their entire travel and that thermostats are properly positioned.

STROMBERG CARBURETOR

AUTHORIZED BENDIX STROMBERG CARBURETORS PRODUCT SALES & SERVICE



SERVICE REPLACEMENT PARTS LIST

Repair Parts Kit No. RK-114

Bin Location	Key No	Part No	Part Name
	1	P-22498	Float Needle Valve Clip and Seat 101″ (NOT VAR)
	* 2	382398	Complete Gasket Set
	* 4	382239	Pump Piston Link and Spring (Complete)
	5	P-24676	Spring—Pump Duration
	6	P-18144	Pump Inlet Check Valve
	7	P-24674	Power By Pass Jet **No** 60 (NOT VAR)
	8	P-19448	Gasket—By Pass Jet
	9	P-22803	Vacuum Power Piston
	10	P-15478	Idle Needle Valve
	11	P-18710	Spring—Idle Needle Valve
	12	P-24773	Metering Jet 041″ (VAR)
	13	P-24670	Main Disch Jet No 32 28 (NOT VAR)
	*14	382269	Float with Lever
	15	P-2885	Gasket—Float Needle Valve Seat
	*16	382255	Gasket—Air Horn
	17	P-24672	Gasket—Main Body
	*18	382806	Idle Tube
	19	P-23902	Plug—Main Discharge Jet
	21	P-3157	Lockwasher—Main Body Attach Screw
	22	P-18772	Lead Ball
	23	P-22439	Fulcrum Pin—Float Lever
	25	P-2475	Screw—Air Horn Attaching
	26	P-6668	Lockwasher—Air Horn Attaching Screw
	27	P-709	Screw—Main Body Attaching
	28	P-19103	Screw—Throttle Stop
	29	P-15831	Spring—Throttle Stop Screw
	*30	382243	Throttle Lever and Stem
	‡31	382600	Throttle Valve (NOT VAR)
	32	P-20904	Screw—Throttle Valve Attaching
	34	P-24678	Plug—Check Valve
	*35	382242	Seal—Pump Piston Link
	38	P-22045	Washer—Cup
	39	P-22046	Washer—Spring Retainer
	40	P-4522	Screw—Choke Valve Attach
	41	P-23913	Choke Valve
	*42	382253	Choke Stem and Lever
	*43	382819	Assy —Air Horn
		P-24045	Vent Tube
	*44	382853	Assy —Main Body 15/16″ Venturi **No. 70** H S Bleeder **No** 65 Idle Air Bleed (VAR)
	*45	382855	Throttle Body (complete with **No** 54-58 idle hole No 42 idle air bleed throttle stem and valve) (VAR)
	46	P-24677	Pump Lever
	47	P-22620	Pump Rod
	48	P-9394	Washer—Pump Rod
	49	P-19820	Spring—Washer—Pump Lever Fulcrum Screw
	50	P-20611	Fulcrum Screw—Pump Lever
	51	P-23858	Strainer—Check Valve
	52	P-24683	Idle Air Bleeder No 42 (NOT VAR)
	53	P 7170	Cotter Pin—Pump Rod and Pump Link
	54	P-22441	Float Hanger
	55	P-23985	High Speed Bleeder No 70 (NOT VAR)
	56	P-6406	Plug—Float Level Sight
	57	P-23911	Elbow—Gas Connection
	58	P-23912	Strainer—Gasoline
	59	P-24669	Screw—Pump Disch Nozzle Attach
	60	P-17063	Gasket—Pump Disch Nozzle Attach Screw
	61	P-17030	Ball—Pump Disch Channel Check Valve
	62	P-24594	Nozzle—Pump Discharge **No** 68 (VAR)
	63	P-24668	Gasket—Pump Discharge Nozzle
	64	P-22602	Lead Gasket—Main Disch Jet
	65	P-15458	Plug—Idle Channel
	66	P-23507	Expansion Plug—Idle Disch Hole
	67	382247	Lever—Start Aid Loose Lever Lock
	68	P-23203	Washer—Start Aid Loose Lever Lock Lever Spacer
	*69	382248	Fast Idle Cam
	70	P-23952	Spring—Fast Idle Cam
	71	P-24728	Fast Idle Rod
	72	112-S-1	Cotter Pin—Fast Idle Rod
	73	P-21032	Washer—Fast Idle Rod
	74	P-23974	Snap Ring—Fast Idle
	*75	382245	Spring—Start Aid Loose Lever
	*76	382200	Diaphragm—Starter Switch
	*77	382199	Spring—Diaphragm Return
	78	P-24693	Washer—Spring Switch Adjusting (VAR.)
	79	P-24733	Gasket—Starting Switch Cover
	80	P-24694	Gasket—Starting Switch Housing
	81	40-S-49	Lockwasher—Starting Switch Housing Attach Screw
	82	61-S-45	Screw—Starting Switch Housing Attach Screw
	83	P-24690	Housing—Starting Switch
	84	P-24691	Cover—Starting Switch
	85	P-24692	Rotor—Starting Switch
	86	P-24732	Washer—Starting Switch Rotor—Rear
	87	40-S-1	Lockwasher—Starting Switch Rotor Attach Nut
	88	P-24731	Nut—Starting Switch Rotor Attach
	89	40-S-18	Lockwasher—Starting Switch Cover Att Screw
	90	61-S-24	Screw—Starting Switch Cover Attach
	91	382493	Spring Clips
	92	49-S-14	Screw—Starter Switch Cover Attach
	93	P-24714	Assy —Choke Housing
	94	P-23297	Gasket—Auto Choke Housing
	95	P-23918	Screw—Auto Choke Housing Attach
	96	P-23919	Vacuum Piston with Link and Lever
	97	P-23933	Washer—Thermostat Lever Adj
	98	P-15875	Lockwasher—Vac Piston and Link Attach Nut
	99	P-16571	Nut—Vac Piston and Link Attach
	100	P-24687	Thermostat Cover with Thermostat
	101	P-23932	Washer—Thermostat Cover Attach Screw
	102	P-2866	Screw—Thermostat Cover Attach Screw
	103	P-23927	Screen—Thermostat Cover
	104	P-22523	Clip—Float Needle Valve
	105	40-S-47	Lockwasher—Starter Switch Cover Attach Screw
	106	P-24861	Wire—Idle Channel (Not illustrated)

*Indicates New Part

‡When repairing or ordering parts for Carburetors with Code No 7-42 it is necessary to make the following changes Key No 31—Use No 382246 Throttle Valve in place of No 382600 and set at 022″ + — 004″ instead of 010″ + — 004′ The difference between these valves can be determined by the notch which appears on the edge of Part 382600 only When lean OFF idle condition is encountered on Carburetors with Code No 7-42 use No 382698 Throttle Valve and set 010″ + — 004″ instead of No 382246 Valve

BENDIX PRODUCTS DIVISION

SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

Printed in U S A

STROMBERG AA-1 CARBURETOR

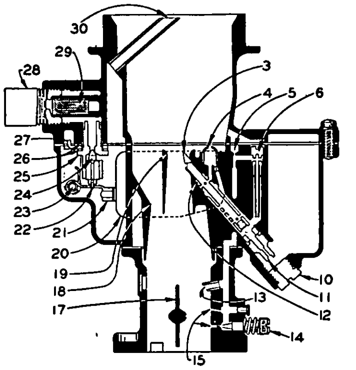
REAR CARBURETOR OF COMPOUND INSTALLATION

STROMBERG NO. 380067 (CODE NO. 7-47) BUICK SYMBOL NO. 1325110

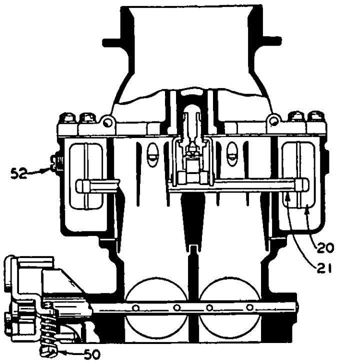
SIZE: 1″ DUAL D. D. 3-HOLE FLANGE

THIS UNIT SUPERSEDES AA-1 EQPT. NO. 380043 (CODE NO. 7-43A) BUICK SYM. NO. 1321278

1941
BUICK
MODEL 50
3-3/32″ x 4-1/8″—8 cyl.



3. Main Disch. Jet
4. High Speed Bleeder
5. Idle Air Bleeder
6. Idle Tube
10. Main Disch. Jet Plug
11. Metering Jet
12. Main Dis. Jet Lead Gasket
13. Sec. Idle Air Bleeder
14. Idle Needle Valve
15. Idle Disch. Holes
17. Throttle Valve
18. Primary Venturi
19. Auxiliary Venturi
20. Float
21. Float Lever
22. Float Needle Valve Clip
23. Float Fulcrum Pin
24. Float Needle Valve
25. Float Needle Valve Seat
26. Float Hanger Gasket
27. Float Hanger
28. Gasoline Inlet
29. Gasoline Strainer
30. Vent Tube
50. Throttle Stop Screw
52. Fuel Level Sight Plug



NOTE—Specifications below are for latest production; previous major changes listed on parts page.

FUEL LEVEL—Measure **19/32″** below top surface of float chamber (without gasket) or level with bottom of level sight hole. To correct fuel level, hold air horn in inverted position. Place **Tool T-24971** on gasket. Tops of floats should be **1/32″ below** tops of vertical guides, which will give approximate fuel level; change if necessary. Sides of floats should be parallel to guides of tool without drag.

MAIN METERING SYSTEM — Venturi 15/16″; Main Discharge Jet **No. 32-28** P-24670 (**Tool T-24967**); High Speed Bleeder **No. 70** in body. P-23985 Main Metering Jet **.048″** P-24773 (**Tool T-24924**); Use **Tool T-19099** Screwdriver for removing main jet plug. Main metering system controls the flow of fuel up to approximately 65 to 70 M.P.H.

IDLE SYSTEM—Idle Discharge holes **Nos. 54-58.** With throttle valve fully closed and **No. 60** drill in idle hole, edge of valve is located **.022″** + — **.004″** from **No. 60** drill; Idle Air Bleed **No. 42** P-24683 (in throttle body, No. 65 in main body; Idle Tube **No. 70** 382806. Adjustment: Adjust to smooth running one barrel at a time, OUT to make richer and IN to make leaner; throttle at 7 to 8 M.P.H. (See Page 4 Form 10C-704 Starter Switch and Throttle Hook-up Information.)

FLANGE GASKET—P-20466

SPECIAL TOOLS MENTIONED ABOVE CONTAINED IN TOOL KIT SER-459 SEE FORM 10-265A

MOTOR TUNE-UP DATA

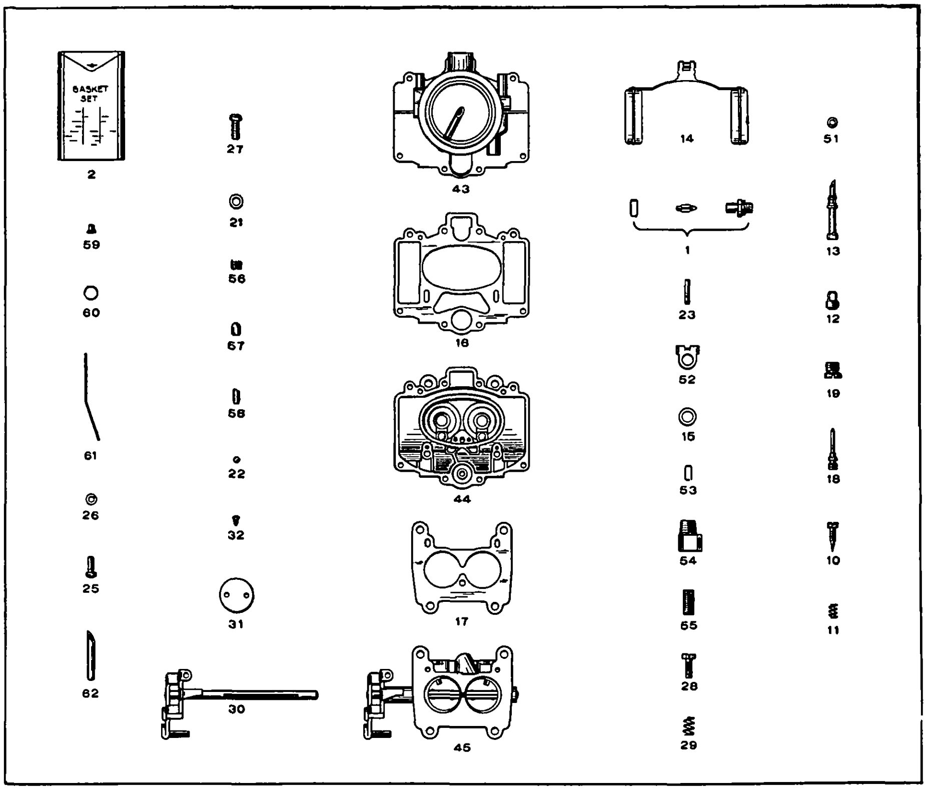
SPARK PLUG—.025″ to .028″. Clean and adjust at regular intervals.

DISTRIBUTOR—.015″. Breaker gap set .015″. Replace if necessary.

VALVES—Intake: .015″. Exhaust: .015″. Engine hot.

IGNITION TIMING—The timing mark on flywheel is ¼″ wide. Breaker contacts to open for No. 1 cylinder when leading edge of mark is opposite index line on housing.

SERVICE RECOMMENDATION—Check heat control valves and damper valve to see that they are free during their entire travel and that thermostats are properly positioned.



SERVICE REPLACEMENT PARTS LIST

Repair Parts Kit No. RK-115

Bin Location	Key No	Part No	Part Name	
	1	**P-22498**	Float Needle Valve and Seat	**(NOT VAR)**
	2	**382399**	Complete Gasket Set	
	10	**P-15478**	Idle Needle Valve	
	11	**P-18710**	Spring—Idle Needle Valve	
	12	**P-24773**	Metering Jet 048"	**(VAR)**
	13	**P-24670**	Main Disch Jet No 32 28	**(NOT VAR)**
	14	**382269**	Float	
	15	**P-2885**	Gasket—Float Needle Valve Seat	
	16	**382255**	Gasket—Air Horn	
	17	**P-24672**	Gasket—Main Body	
	18	**382806**	Idle Tube	
	19	**P-23902**	Plug—Main Disch Jet	
	21	**P-3157**	Lockwasher—Main Body Attach Screw	
	22	**P-18772**	Lead Ball	
	23	**P-22433**	Pin—Float Fulcrum	
	25	**P-2475**	Screw—Air Horn Attach	
	26	**P-6668**	Lockwasher—Air Horn Attach Screw	
	27	**P-709**	Screw—Main Body Attach	
	28	**P-18769**	Screw—Idle Adj	
	29	**P-15831**	Spring—Idle Adj Screw	

Bin Location	Key No	Part No	Part Name	
	30	**382261**	Throttle Lever and Stem	
	31	**382246**	Throttle Valve (5°)	
	32	**P-20904**	Screw—Throttle Valve Attach	
	43	**382821**	Air Horn	
	44	**382852**	Main Body (complete with **15/16"** Venturi **No 70** High Speed Bleed **No 65** Idle Air Bleed)	**(VAR.)**
	45	**382851**	Throttle Body (complete with **No 54-58** Idle Holes **No 42** Idle Air Bleed Throttle Stem & Valve)	**(VAR**
	51	**P-22602**	Gasket—Main Disch Jet	
	52	**P-22441**	Hanger—Float	
	53	**P 22523**	Clip—Float Needle Valve Seat	
	54	**P-23911**	Elbow—Gas Conn	
	55	**P-23912**	Strainer—Gasoline	
	56	**P-6406**	Plug—Fuel Level Sight	
	57	**P-23985**	H S Bleeder No 70	**(NOT VAR**
	58	**P-24683**	Idle Air Bleeder No 42	**(NOT VAR)**
	59	**P-15458**	Plug—Idle Channel	
	60	**P-23507**	Plug—Idle Disch Holes	
	61	**P-24861**	Wire—Idle Channel	
	62	**P-24045**	Vent Tube	

BENDIX PRODUCTS DIVISION

SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

VACUUM STARTING SWITCH

(DELCO-REMY MODEL 1990127)

GENERAL INSTRUCTIONS AND ADJUSTMENTS

1940-41
BUICK
ALL MODELS

FOREWORD

The vacuum starting switch used on all models of 1940-41 Buick cars is a DELCO-REMY MODEL 1990127. The switch is assembled onto the Stromberg Carburetor by the Bendix Products Division and is properly adjusted to eliminate all manufacturing tolerances. Therefore, if any parts of the switch assembly require replacing or if the entire switch is assembled on another carburetor other than the original installation, it is necessary to check the timing of the switch. The following description and instructions should be carefully read and followed.

GENERAL DESCRIPTION

The switch is operated by the throttle shaft and vacuum of the engine. The electrical circuit is opened and closed by means of a contact rotor on the throttle shaft and two contact springs, one of which is combined with the lock-out lever. After the engine is started, the circuit is kept open by the lock-out lever contacting the guide pin, which is part of the diaphragm assembly.

All electrical contacts and movable parts are located on the opposite side of the diaphragm from the vacuum chamber and are thus protected from gasoline fumes, gum deposits, etc. Air for the "breathing" action of the diaphragm is drawn through a felt gasket under the cover plate. The felt gasket serves as an air cleaner and **no other type of material should be substituted.** Two screws underneath the cover plate hold the switch to the throttle body. A gasket is used between the switch body and the throttle body to seal against the loss of vacuum.

The contact rotor is directly connected to the throttle shaft and is correctly positioned by means of a timing washer. The diaphragm is located at the top of the assembly and is held in place by a die cast cover, which is attached to the switch housing. This cover forms the vacuum chamber and also positions the diaphragm return spring. A vacuum passage connects the diaphragm vacuum chamber to the carburetor barrel below the throttle valve. The function of the diaphragm is to operate the guide pin and prevent the contacts from closing when the throttle is open and the engine is running.

In wiring the switch, always connect the wire having red crossing tracers to the terminal on the front of the switch. This is the "hot" wire and when so connected protects the lock-out lever from being accidentally short-circuited if it is bent back against the housing during the timing operation.

OPERATION AND ADJUSTMENTS

Closed Throttle—Engine Not Running—Fig. 1

When the ignition is turned off and the throttle is allowed to close, the insulated high side of the rotor (A) moves the lock-out lever away from the guide pin and allows the diaphragm return spring (D) Part No. 382199 to move guide pin (C) to its "down" position This keeps the electrical circuit open

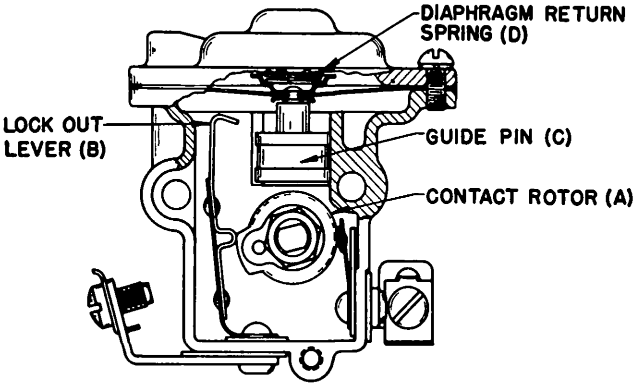


FIG. I
UNLATCHED POSITION WITH CLOSED THROTTLE (ENGINE NOT RUNNING)

Open Throttle—Cranking Position—Fig. 2

As the accelerator pedal is depressed to crank the engine, the insulated high side of the cam is rotated and allows the lock-out lever to bear on the brass contact surface of the rotor and completes the starting motor circuit In the same operation, the end of the lock-out lever positions itself ahead of the guide pin (C) so that the guide pin cannot be pulled upward The entire mechanism remains in this position during the cranking period

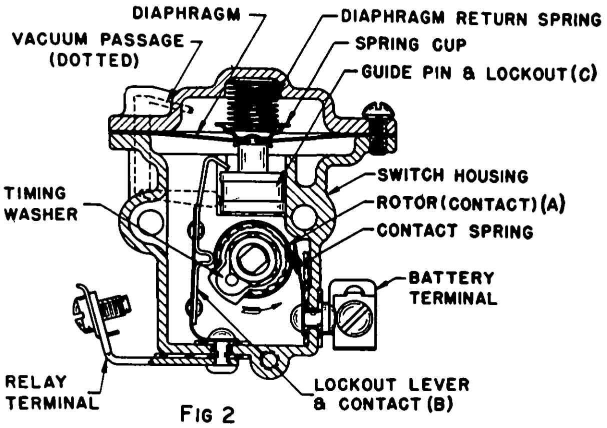


FIG 2
CRANKING POSITION WITH OPEN THROTTLE

Closed Throttle—Engine Running—Fig. 3

As soon as the engine fires and the throttle is allowed to close, the insulated high side of the rotor makes contact with the lock-out lever (B) and thereby opens the circuit. (Simultaneously, as the generator begins to generate, the starting circuit is automatically opened if the throttle is not immediately permitted to close) During this operation the end of the lock-out lever is moved away from the guide pin and allows the manifold vacuum to lift the diaphragm Part No. 382200 and the guide pin to their "up" positions.

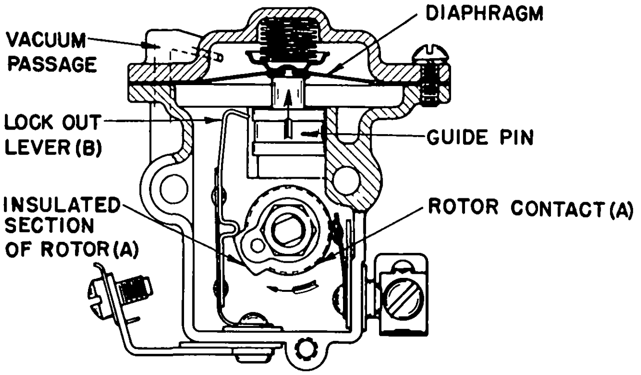


FIG 3
ENGINE RUNNING
THROTTLE CLOSED

Partially Opened Throttle—Engine Running—Fig. 4

With the engine running and the throttle partially opened, the end of the lock-out lever (B) comes to rest on the guide pin preventing the lever from making contact with the brass surface of the rotor and keeping the circuit open

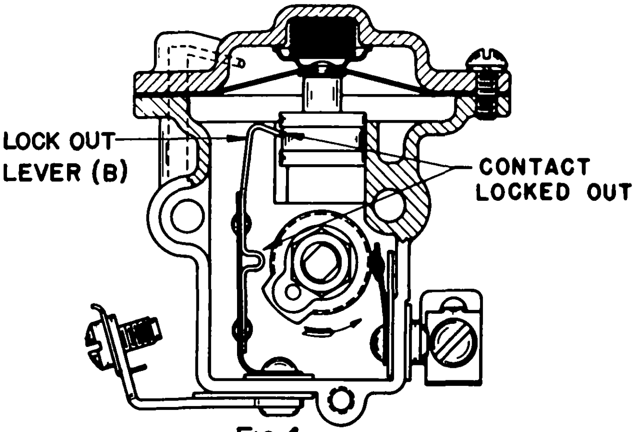


FIG.4
RUNNING POSITION
PART THROTTLE

TIMING THE SWITCH

The switch is properly timed when it is originally assembled onto the carburetor. If any parts of the switch, rotor or throttle shaft assembly require replacing or if the entire switch is assembled onto another carburetor, it is necessary to check the timing. The rotor is a slip fit on the throttle shaft and is held in position by the lug on the timing washer. The timing washer is directly connected to the end of the throttle shaft and positions the rotor in relation to the throttle valve. The washers are numbered with each number representing a difference of three angular degrees in throttle shaft rotation. The number is stamped on the face of the washer. The smaller the number, the less the angular degree; the higher, the greater number of degrees. When checking the timing, it may be necessary to use a washer of another number in order to obtain the limits shown in Figures 5 and 6

CHECKING SWITCH TIMING

1. Set throttle stop screw for 8 M.P.H. (HOT IDLE) **THIS IS VERY IMPORTANT.**
2. Remove switch cover plate and gasket. Place mirror so that guide pin and lock-out is visible from left side of car.
3. Leave ignition off. Open the throttle approximately ¼" by hand and with a short piece of wire or a small drill, move the guide pin to its "up" position so that it is held by the lock-out lever The switch will then be in the same position as shown in FIG 4. (Disconnecting the throttle rod from the throttle lever to eliminate the throttle return spring tension will be of help when going through this operation)

4 Slowly close throttle until guide pin releases. This can be seen in mirror, or usually the "click" which results when the guide pin drops down on the rotor is loud enough to be readily heard without difficulty.

5. With the throttle in this position, measure the clearance between the idle screw and the cold idle cam when the cam is held in fast idle position. This clearance should be not less than **3/64"** or more than **3/32"**.
   If the clearance is less than **3/64"**, replace timing washer with a higher numbered washer. If more than **3/32"**, replace washer with one having a lower number. Always recheck timing after replacing washer.

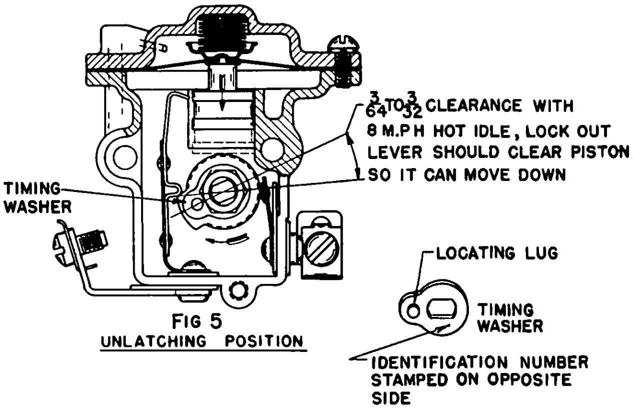


FIG 5
UNLATCHING POSITION

ANOTHER PROCEDURE THAT CAN BE USED

1. (Same as above)
2. (Same as above)
3. Start engine and pull out hand throttle until clearance between throttle stop screw and cold idle cam, when cam is held in fast idle position, is approximately ¼"
4. Turn off ignition
5. Slowly close throttle by tapping lightly on the hand throttle lever until guide pin and lock-out release
6. With throttle in this position, measure the clearance between the idle screw and the cold idle cam when the cam is held in the fast idle position. This clearance should be not less than **3/64"** or more than **3/32"**.
   If clearance is less than **3/64"**, replace the timing washer with a higher numbered washer. If more than **3/32"** ,replace washer with one having a lower number. Always recheck timing after replacing washer.

LESS CLEARANCE THAN 3/64" MAY RESULT IN FAILURE TO ESTABLISH CONTACT IN COLD WEATHER. MORE CLEARANCE THAN 3/32" MAY RESULT IN CLASHING OF GEARS DURING ACCELERATION AT LOW SPEED.

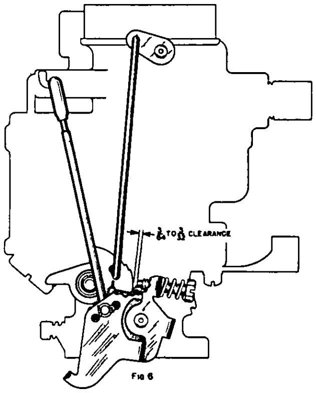


FIG 6

COMPOUND CARBURETION

Operation and Adjustments

General Description

On engines with compound carburetion two dual carburetors are used The front carburetor is a complete unit containing a float system, main metering system, accelerating pump, power by pass system, idling system, starter switch and automatic choke control The rear carburetor contains only a float system, idling system and main metering system

Both carburetors have internal float chamber vents and are of the balanced type

The two carburetors are installed on one dual manifold The outside branch of the manifold is connected to the outside barrel of both carburetors and feeds cylinders No 1, 2, 7 and 8 The inside branch of manifold is connected to inside barrel of both carburetors and feeds cylinders No 3, 4, 5 and 6

Damper Valve—Idle Speeds

A damper valve assembly is used between the rear carburetor and the manifold An offset weight has the tendency to keep the valves in closed position When the throttles of the rear carburetor are opened, the air flowing through the unit forces the damper valves open The valves in the damper assembly are not a tight fit in closed position and there is sufficient clearance to allow the idle system of the rear carburetor to function along with the idle system of the front carburetor up to approximately 22 M P H

Part Throttle

Moving the accelerator pedal beyond idle speed opens the throttle of the front carburetor only and it supplies the fuel mixture up to approximately 75 M P H in addition to the fuel delivered through the idle system of the rear carburetor

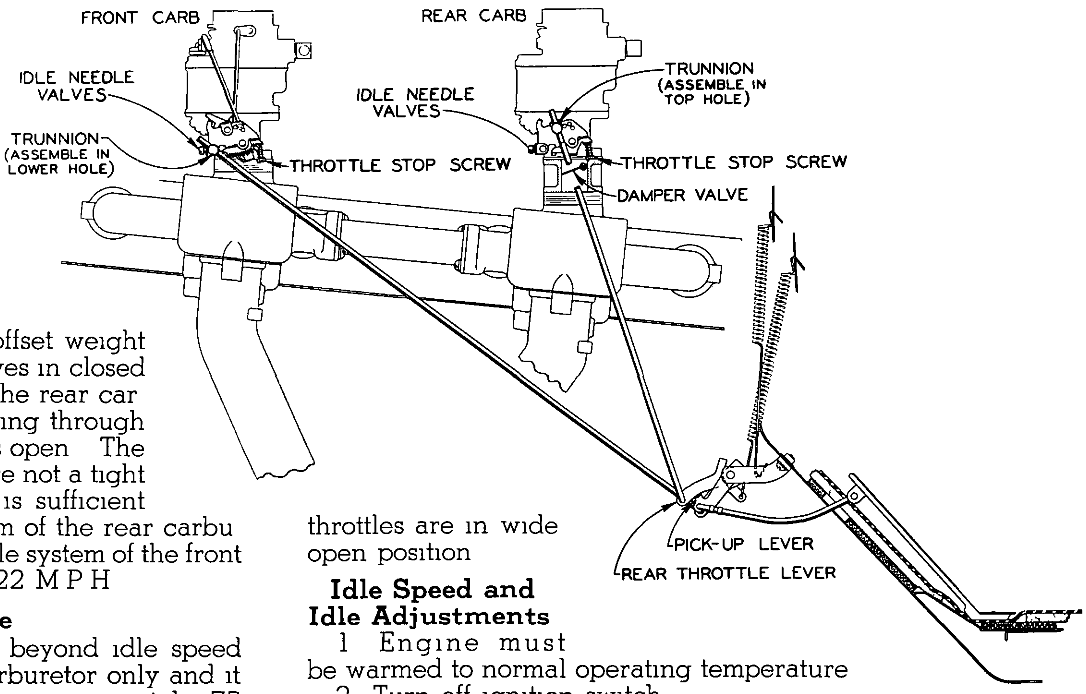
Full Throttle

Additional movement of the accelerator pedal causes a pick up lever to start opening the throttle of the rear carburetor This allows air to flow through the rear unit which forces damper valves to open and rear carburetor begins to function When the throttles of both carburetors are fully opened, the front and rear carburetors feed equally With full throttle, the function of both carburetors varies with car speed as follows

Below 15 M.P.H.—High gear (throttles open)—Front carburetor main metering system is feeding mixture Rear carburetor is not functioning.

15 to 20 M.P.H.—High gear (throttles open)—Damper valves begin to open Front carburetor main system is functioning and rear carburetor main system is just starting to feed mixture

35 to 40 M.P.H.—High gear (throttles open)—Damper valves are wide open Both carburetor systems are functioning



Throttle Rod Adjustment

1 Floor mat must be in place because mat serves as stop for "open" position of accelerator pedal

2 Disconnect rod from rear carburetor

3 If carburetor is not cold enough to cause START AID levers to make contact, move choke rod to closed position

4 Move accelerator pedal to floor mat, hold down

5 Adjust trunnion of front carburetor rod so that the throttles of front carburetor are wide open

6 Adjust trunnion of rear carburetor rod so that throttles are in wide open position

Idle Speed and Idle Adjustments

1 Engine must be warmed to normal operating temperature

2 Turn off ignition switch

3 Back off both **throttle adjusting screws** until throttles are fully closed Ends of adjusting screw should be set to barely contact thin section of cold idle cam on front carburetor, and throttle body on rear carburetor, **when throttles are fully closed.**

Turn each throttle adjusting screw ¾ turn clockwise to open each throttle same amount

4 Turn **idle needle valves** "in" on both carburetors until closed position can be felt with a screwdriver

Do not force needle valves on seat as this will damage them.

Open each valve one turn

5 Turn on ignition switch and start engine

If either idle speed or idle mixture needs additional adjustment turn each **throttle adjusting screw** same amount in desired direction, and each **idle needle valve** same amount in desired direction

It will be found advantageous to change each needle ⅛ turn at a time when adjusting either "idle speed" or "idle mixture"

If vacuum gauge is used, set idle needle valves so gauge will show 1″ less than maximum reading

VACUUM STARTING SWITCH

(DELCO-REMY MODEL 1990127)

GENERAL INSTRUCTIONS AND ADJUSTMENTS

FOREWORD

The vacuum starting switch used on all models of 1940 Buick cars is a DELCO-REMY MODEL 1990127. The switch is assembled onto the Stromberg Carburetor by the Bendix Products Division and is properly adjusted to eliminate all manufacturing tolerances. Therefore, if any parts of the switch assembly require replacing or if the entire switch is assembled on another carburetor other than the original installation, it is necessary to check the timing of the switch. The following description and instructions should be carefully read and followed.

GENERAL DESCRIPTION

The switch is operated by the throttle shaft and vacuum of the engine. The electrical circuit is opened and closed by means of a contact rotor on the throttle shaft and two contact springs, one of which is combined with the lock-out lever After the engine is started, the circuit is kept open by the lock-out lever contacting the guide pin, which is part of the diaphragm assembly.

All electrical contacts and movable parts are located on the opposite side of the diaphragm from the vacuum chamber and are thus protected from gasoline fumes, gum deposits, etc. Air for the "breathing" action of the diaphragm is drawn through a felt gasket under the cover plate. The felt gasket serves as an air cleaner and **no other type of material should be substituted.** Two screws underneath the cover plate hold the switch to the throttle body. A gasket is used between the switch body and the throttle body to seal against the loss of vacuum

The contact rotor is directly connected to the throttle shaft and is correctly positioned by means of a timing washer. The diaphragm is located at the top of the assembly and is held in place by a die cast cover, which is attached to the switch housing. This cover forms the vacuum chamber and also positions the diaphragm return spring. A vacuum passage connects the diaphragm vacuum chamber to the carburetor barrel below the throttle valve. The function of the diaphragm is to operate the guide pin and prevent the contacts from closing when the throttle is open and the engine is running.

In wiring the switch, always connect the wire having red crossing tracers to th terminal on the front of the switch. This is the "hot" wire and when so connected protects the lock-out lever from being accidentally short-circuited if it is bent back against th housing during the timing operation.

OPERATION AND ADJUSTMENTS

Closed Throttle—Engine Not Running—Fig. 1

When the ignition is turned off and the throttle is allowed to close, the insulated high side of the rotor (A) moves the lock-out lever away from the guide pin and allows the diaphragm return spring (D) to move guide pin (C) to its "down" position. This keeps the electrical circuit open.

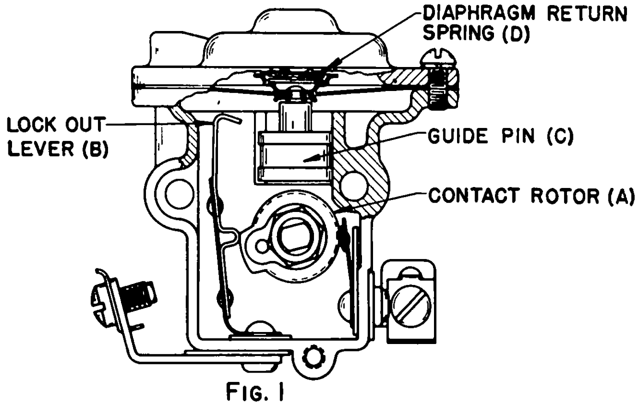


FIG. 1

UNLATCHED POSITION WITH CLOSED THROTTLE (ENGINE NOT RUNNING)

Open Throttle—Cranking Position—Fig. 2

As the accelerator pedal is depressed to crank the engine, the insulated high side of the cam is rotated and allows the lock-out lever to bear on the brass contact surface of the rotor and completes the starting motor circuit. In the same operation, the end of the lock-out lever positions itself ahead of the guide pin (C) so that the guide pin cannot be pulled upward The entire mechanism remains in this position during the cranking period.

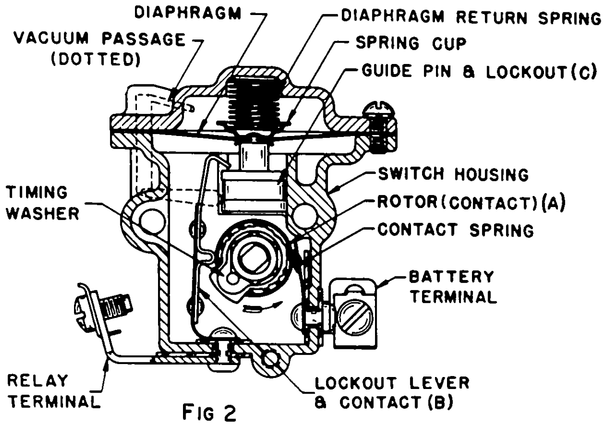


FIG 2

CRANKING POSITION WITH OPEN THROTTLE

Closed Throttle—Engine Running—Fig. 3

As soon as the engine fires and the throttle is allowed to close, the insulated high side of the rotor makes contact with the lock-out lever (B) and thereby opens the circuit. During this operation the end of the lock-out lever is moved away from the guide pin and allows the manifold vacuum to lift the diaphragm and the guide pin to their "up" positions.

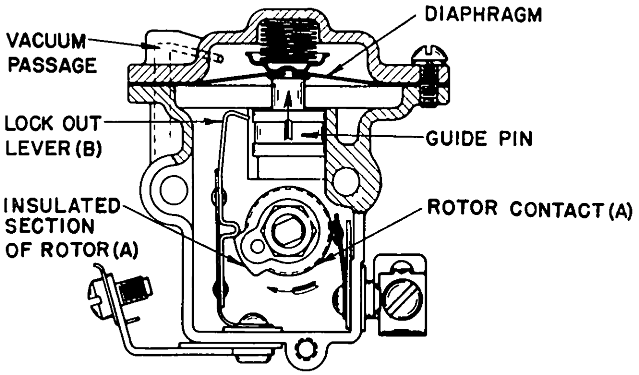


FIG. 3

ENGINE RUNNING THROTTLE CLOSED

Partially Opened Throttle—Engine Running—Fig. 4

With the engine running and the throttle partially opened, the end of the lock-out lever (B) comes to rest on the guide pin preventing the lever from making contact with the brass surface of the rotor and keeping the circuit open

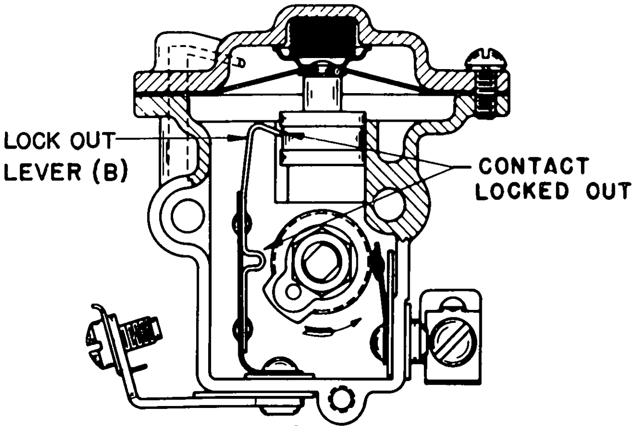


FIG. 4

RUNNING POSITION PART THROTTLE

TIMING THE SWITCH

The switch is properly timed when it is originally assembled onto the carburetor. If any parts of the switch, rotor or throttle shaft assembly require replacing or if the entire switch is assembled onto another carburetor, it is necessary to check the timing The rotor is a slip fit on the throttle shaft and is held in position by the lug on the timing washer. The timing washer is directly connected to the end of the throttle shaft and positions the rotor in relation to the throttle valve. The washers are numbered with each number representing a difference of three angular degrees in throttle shaft rotation. The number is stamped on the face of the washer. The smaller the number, the less the angular degree, the higher, the greater number of degrees. When checking the timing, it may be necessary to use a washer of another number in order to obtain the limits shown in Figures 5 and 6.

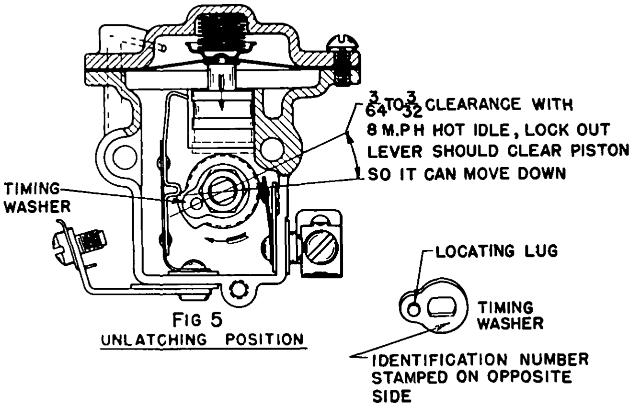

$\frac{3}{64}$ TO $\frac{3}{32}$ CLEARANCE WITH 8 M.P.H HOT IDLE, LOCK OUT LEVER SHOULD CLEAR PISTON SO IT CAN MOVE DOWN
TIMING WASHER
LOCATING LUG
TIMING WASHER
IDENTIFICATION NUMBER STAMPED ON OPPOSITE SIDE

FIG 5
UNLATCHING POSITION

CHECKING SWITCH TIMING

1. Set throttle stop screw for 8 M P H. (HOT IDLE). **THIS IS VERY IMPORTANT.**
2. Remove switch cover plate and gasket. Place mirror so that guide pin and lock-out is visible from left side of car.
3. Leave ignition off. Open the throttle approximately ¼″ by hand and with a short piece of wire or a small drill, move the guide pin to its "up" position so that it is held by the lock-out lever. The switch will then be in the same position as shown in FIG 4. (Disconnecting the throttle rod from the throttle lever to eliminate the throttle return spring tension will be of help when going through this operation)

4 Slowly close throttle until guide pin releases. This can be seen in mirror, or usually the "click" which results when the guide pin drops down on the rotor is loud enough to be readily heard without difficulty.

5 With the throttle in this position, measure the clearance between the idle screw and the cold idle cam when the cam is held in fast idle position This clearance should be not less than 3/64″ or more than 3/32″.

If the clearance is less than 3/64″, replace timing washer with a higher numbered washer. If more than 3/32″, replace washer with one hav-

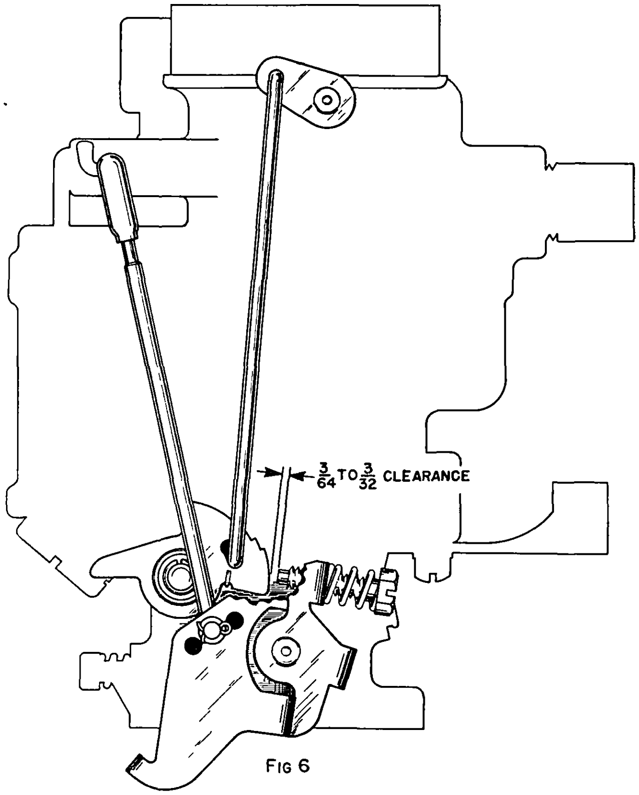


FIG 6

ing a lower number. Always recheck timing after replacing washer.

ANOTHER PROCEDURE THAT CAN BE USED

1. (Same as above.)
2. (Same as above.)
3. Start engine and pull out hand throttle until clearance between throttle stop screw and cold idle cam, when cam is held in fast idle position, is approximately ¼″.
4. Turn off ignition.
5. Slowly close throttle by tapping lightly on the hand throttle lever until guide pin and lock-out release.
6. With throttle in this position, measure the clearance between the idle screw and the cold idle cam when the cam is held in the fast idle position. This clearance should be not less than **3/64″** or more than **3/32″**.

   If clearance is less than **3/64″**, replace the timing washer with a higher numbered washer. If more than **3/32″** ,replace washer with one having a lower number. Always recheck timing after replacing washer.

LESS CLEARANCE THAN 3/64″ MAY RESULT IN FAILURE TO ESTABLISH CONTACT IN COLD WEATHER. MORE CLEARANCE THAN 3/32″ MAY RESULT IN CLASHING OF GEARS DURING ACCELERATION AT LOW SPEED.

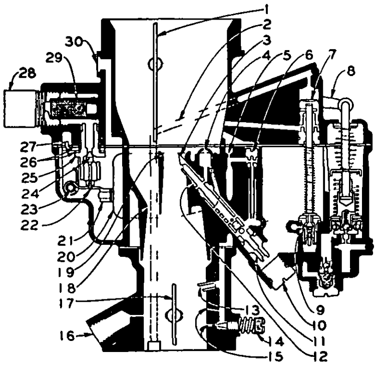
STROMBERG AAV-26 CARBURETOR

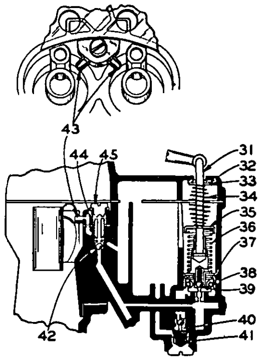
STROMBERG NO A-19192 (CODE NO 7-33) BUICK SYMBOL NO 1315323
STROMBERG NO A-19182 (CODE NO 7-34) BUICK SYMBOL NO 1315322
SIZE 1-1/4″ DUAL D D 4-HOLE FLANGE

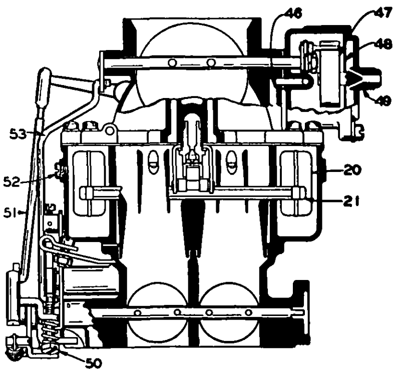
1940 BUICK

MODELS 60, 70, 80, 90
3-7/16″ x 4-5/16″—8 cyl.

PARTS ILLUSTRATED







1 Choke Valve
2 Power Piston Vac Passage
3 Main Discharge Jet
4 High Speed Bleeder
5 Idle Air Bleeder
6 Idle Tube
7 Vacuum Power Piston
8 Pump Fulcrum Arm
9 Power By Pass Jet
10 Main Disch Jet Plug
11 Main Metering Jet
12 Main Dis Jet Lead Gasket
13 Sec Idle Air Bleeder
14 Idle Needle Valve
15 Idle Dis Holes
16 Vac Spark Conn
17 Throttle Valve
18 Primary Venturi
19 Auxiliary Venturi
20 Float
21 Float Lever
22 Float Needle Valve Clip
23 Float Fulcrum Pin
24 Float Needle Valve
25 Float Needle Valve Seat
26 Float Hanger Gaskets
27 Float Hanger
28 Gasoline Inlet
29 Gasoline Strainer
30 Float Chamber Vent
31 Pump Piston Link
32 Felt Dust Washer
33 Retainer Washer
34 Dust Washer Spring
35 Spring Retainer Washer
36 Pump Duration Spring
37 Pump Piston
38 Piston Expansion Spring
39 Pump Relief Valve
40 Pump Inlet Check Valve
41 Pump Inlet Strainer
42 Pump Outlet Check Valve
43 Pump Discharge Nozzles
44 Pump Disch Restriction
45 Pump Discharge Screw
46 Auto Choke Vac Passage
47 Thermostat
48 Screen
49 Hot Air Tube Conn
50 Thro Stop Screw
51 Pump Rod
52 Fuel Level Sight Plug
53 Fast Idle Rod

Note—Specifications below are for latest production; previous major changes listed on parts page.

FUEL LEVEL—Measure **19/32″** below top surface of float chamber (without gasket) or level with bottom of level sight hole at **4 to 5 lbs.** pressure To correct fuel level, hold air horn in inverted position Place Tool **T-24971** on gasket Tops of floats should be **3/64″** above tops of vertical guides, which will give approximate fuel level, change if necessary Sides of floats should be tangent to guides of tool without drag

MAIN METERING SYSTEM—Venturi **1-1/8″**; Main Discharge Jet **No. 32-28** P-24670 (**Tool T-24967**), High Speed Bleeder **No. 70** P-23985 Main Metering Jet **.052″** P-24673 (New Part No), **.051″** used with heavy-duty air cleaner (**Tool T-24924**); Use **Tool T-19099** Screwdriver for removing main jet plug Main metering system controls the flow of fuel up to approximately 65 to 70 M P H

POWER SYSTEM—Power By-Pass Jet **No. 54** P-21197, Power jet to come into operation at **4″** to **6″** of manifold vacuum, which is approximately 65 to 70 M P H (**Tool T-24733**) used to remove vacuum power piston

ACCELERATION—Pump Discharge Nozzles **No. 68** P 24594, Pump capacity **10** to **14** c c per 10 fast strokes, and **15** to **19** c c per 10 slow strokes with pump rod link set in middle setting (**Tool T-24972**) Pump action takes place during acceleration period only

IDLE SYSTEM—Idle Discharge holes **Nos. 54-60.** With throttle valve fully closed and **No. 60** drill in idle hole, edge of valve is located **.022″** + — **.004″** from **No. 60** drill, Idle Air Bleed **No. 42** P-24683 in throttle body, **No. 70** in main body, Idle Tube **No. 70** P-19424 Adjustment Adjust to smooth running one barrel at a time, OUT to make richer and IN to make leaner, throttle at 7 to 8 M P H

VACUUM SPARK CONTROL—With throttle fully closed and **No. 58** drill in spark hole, edge of valve is located **.055″** + — **.004″** from **No. 58** drill

FLANGE GASKET—P 18165

SPECIAL TOOLS REQUIRED—Use Buick complete Tool Kit **SER-373** T 24733 Power piston wrench T-24967 Main Discharge Jet Remover, T-24924 Main Metering Jet Wrench, T-24970 By-Pass Jet and Check Valve Tester, T 24972 Pump Capacity Burrette Gauge, T-24968 Handle T 19099 Main Jet Plug Screwdriver, T 24971 Float Gauge, T 25047 Socket Wrench, T 25057 Auto-Choke Step Gauge, T 25046 Vac Piston Setting Gauge

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MOTOR TUNE-UP DATA

SPARK PLUG—.025″ to .028″. Clean and adjust at regular intervals.

DISTRIBUTOR—.015″. Breaker gap set .015″. Replace if necessary.

VALVES—Intake: .015″. Exhaust: .015″. Engine hot.

IGNITION TIMING—Breaker contacts to open for No. 1 cylinder when flywheel mark is opposite index line on housing.

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

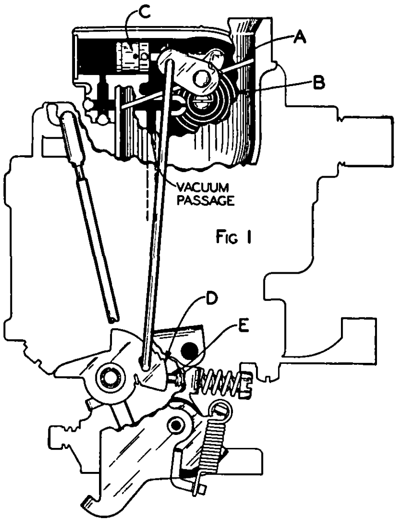


Fig 1

AUTOMATIC CHOKE CONTROL

GENERAL DESCRIPTION

The automatic choke control is built into a housing integral with the carburetor The principles used in the operation of the automatic choke are manifold vacuum, thermostat spring, and an offset choke valve in the carburetor The vacuum piston and thermostat are directly connected to the carburetor choke valve and accurately control the opening and closing of the choke valve undei varying operating temperatures and at various throttle positions A tube leading from the exhaust manifold to the thermostat chamber transmits heat to govern the tension of the thermostat spring A fast idle cam operating in conjunction with the automatic choke provides the proper throttle opening for a cold engine and thereby prevents the engine from stalling during the warming up period

STARTING ENGINE

For starting an engine that is cold enough to require full closing of the choke valve, additional tension takes place in the throttle hook-up after the accelerator pedal engages the starter When starting the engine, the accelerator pedal should be depressed only to the point where the additional tension is noticeable Moving pedal beyond this point will have a tendency to partially open the choke valve to admit sufficient air to clear manifold if the engine should have become flooded

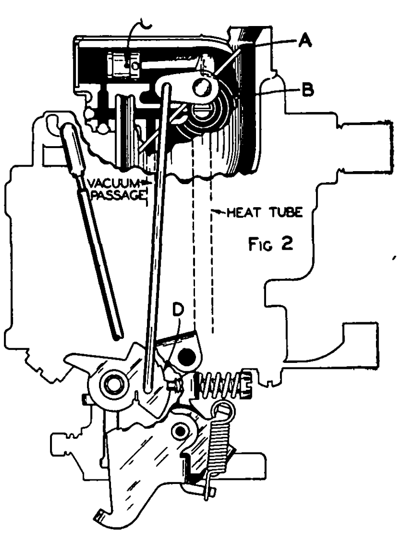


Fig 2

OPERATION AND ADJUSTMENTS

CHOKE CLOSED—FAST IDLE—COLD ENGINE

When the engine becomes cold, the thermostat also cools and gradually gains sufficient tension to partially close the choke valve "A" As soon as the accelerator pedal is depressed to start the engine, the throttle is partially opened so that the throttle stop screw "E" is lifted away from fast idle cam "D" This permits the choke valve to close in accordance with the thermostat tension The throttle stop screw then comes to rest on a higher lobe of the fast idle cam after the engine is running, providing the proper throttle opening for the prevailing engine temperature FIG 1 shows the position of the choke and fast idle mechanism during the cranking period The choke valve "A" is held in closed position during this operation by the tension of the thermostat "B"

CHOKE PARTIALLY OPENED—ENGINE RUNNING—WARMING UP PERIOD

When the engine begins to fire, the manifold vacuum thus created pulls the vacuum piston "C," opening the choke valve "A" against the tension of the thermostat spring "B" Sufficient air is thereby admitted to give a satisfactory running mixture As the choke valve opening is increased, the fast idle cam is allowed to revolve so that the throttle stop screw comes to rest on a lower step when the throttle is opened and then permitted to close FIG 2

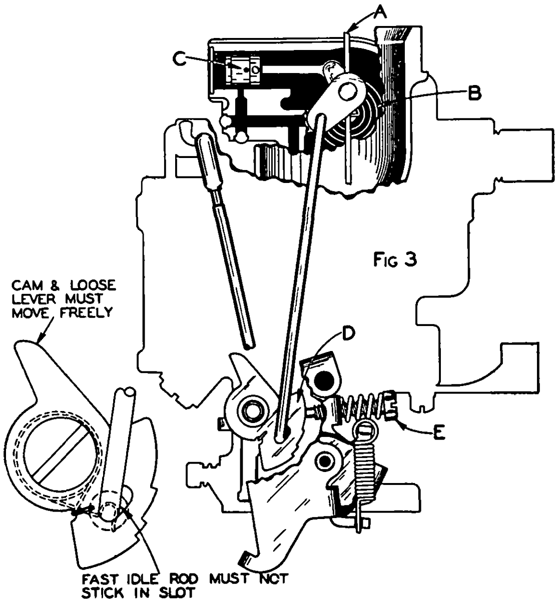
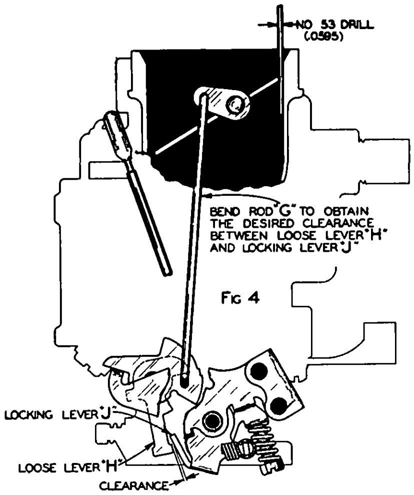

A
C
B
D
E
CAM & LOOSE LEVER MUST MOVE FREELY
FAST IDLE ROD MUST NOT STICK IN SLOT

Fig 3

ENGINE WARM—CHOKE WIDE OPEN—SLOW IDLE

While the engine continues to run, the inrushing air forces the off center choke valve "A" open The amount the choke valve opens is controlled by the vacuum piston and tension of the thermostat Heat is transmitted into the thermostat chamber by hot air being drawn from a "stove" in the exhaust manifold The thermostat gradually absorbs sufficient heat so that its tension decreases until it does not offer any further resistance to the choke valve opening, and at the same time the fast idle cam "D" rotates until the throttle stop screw is at normal idle position See FIG 3 The throttle stop screw should be adjusted for a car speed of 7 to 8 M P H with the engine at normal operating temperature

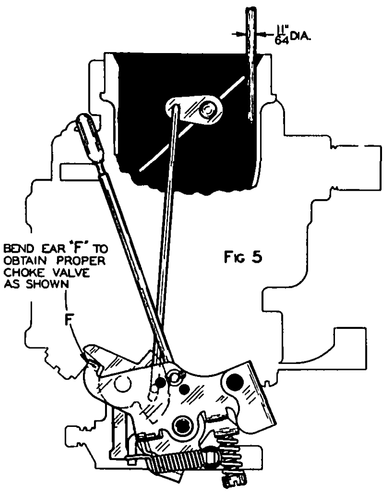
NOTE The torsional spring of the fast idle cam has one end connected to the fast idle rod Make certain that the washer is placed on the rod after the rod is assembled in the cam and that the hook of the spring is properly assembled on the rod It is very essential that the cam moves freely and that the rod does not stick or bind in the slot of the cam


NO 53 DRILL (.0595)
BEND ROD "G" TO OBTAIN THE DESIRED CLEARANCE BETWEEN LOOSE LEVER "H" AND LOCKING LEVER "J"
Fig 4
LOCKING LEVER "J"
LOOSE LEVER "H"
CLEARANCE

When checking the "START AID" mechanism, the fast idle cam setting is automatically obtained The procedure is to hold a **No. 53** drill between the choke valve and the air horn as illustrated in FIG 4

In this position, locking lever "J" should just clear loose lever "H" while the throttle is opened and closed To obtain the desired clearance, bend the fast idle rod at the point indicated Care should be taken so as not to distort the fast idle cam return spring or cause a bind between the rod and the slot in the cam

With the throttle in the wide open position, the space between the top of the valve and the air horn should be between **.156"** and **.187"**. This can be measured by placing a drill of **11/64"** diameter between the valve and the air horn, FIG 5 This setting is properly made at the factory, however, if it is necessary to re adjust it, it can be done by bending ear "F" to the desired position Care should be taken to make certain that the fast idle rod does not bind and the fast idle cam spring is not distorted



SERVICING THE AUTOMATIC CHOKE CONTROL

The automatic choke control is properly set at the factory Under ordinary circumstances it will give many miles of satisfactory service

In the operations of an automatic choke control the one point that must be borne in mind at all times is that all parts of the unit must operate freely and not stick or bind in any position of travel

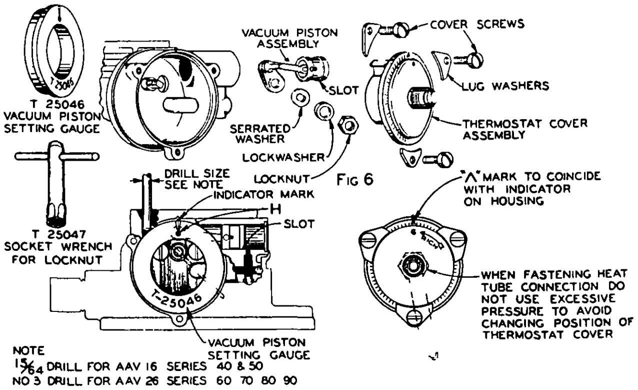

VACUUM PISTON ASSEMBLY
COVER SCREWS
T 25046 VACUUM PISTON SETTING GAUGE
SLOT
LUG WASHERS
SERRATED WASHER
THERMOSTAT COVER ASSEMBLY
LOCKWASHER
T 25047 SOCKET WRENCH FOR LOCKNUT
DRILL SIZE SEE NOTE
LOCKNUT
INDICATOR MARK
H
SLOT
"Λ" MARK TO COINCIDE WITH INDICATOR ON HOUSING
T-25046
WHEN FASTENING HEAT TUBE CONNECTION DO NOT USE EXCESSIVE PRESSURE TO AVOID CHANGING POSITION OF THERMOSTAT COVER
VACUUM PISTON SETTING GAUGE
NOTE
15/64 DRILL FOR AAV 16 SERIES 40 & 50
NO 3 DRILL FOR AAV 26 SERIES 60 70 80 90

Fig 6

DISASSEMBLY

1 Remove carburetor from manifold

2 Remove thermostat cover screws and lug washers

Thermostat cover assembly can then be taken off of the choke housing

3 Loosen lock nut removing lock washer and serrated washer

4 Remove vacuum piston assembly from housing

5 With a clean rag saturated with acetone or alcohol thoroughly clean the cylinder walls of any dirt or other foreign material which may have accumulated in regular service Use compressed air to blow out all of the channels The surface of the piston should also be thoroughly cleaned Do not use any abrasive materials for cleaning piston or cylinder

6 Thoroughly clean the screen on the inside of the cover by blowing compressed air into the heat tube connection and also between the screen and the cover using precaution not to distort the screen

REASSEMBLY

1 Place vacuum piston in cylinder with slot on piston assembled **DOWN. THIS IS VERY IMPORTANT, ALSO DO NOT USE ANY TYPE OF LUBRICANT ON PISTON OR IN CYLINDER.** Assemble lever onto choke stem Next assemble serrated washer, lockwasher, and locknut, fastening the nut **merely by hand.**

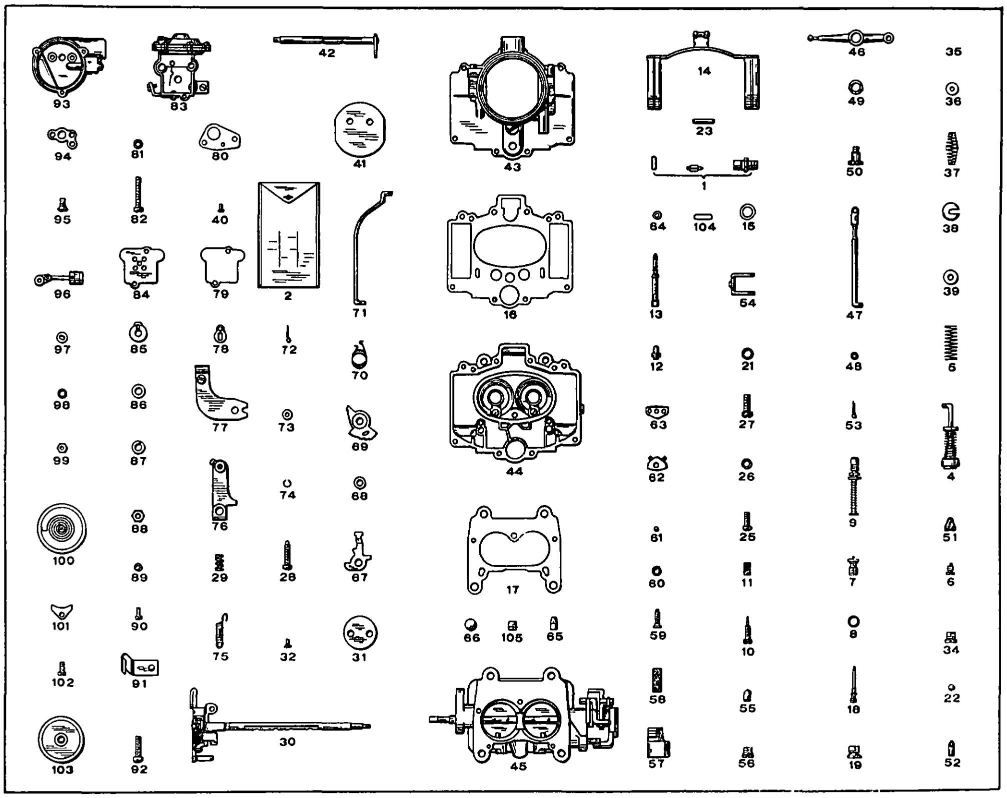
2 Referring to FIG 6 place tool **T-25046** on choke housing with the small hole (H) fitting over the pin of the choke lever The indication line at the outer diameter of the tool should be set to line up with the projection on the choke housing The tool should be held in this position by hand or two of the cover screws and lug washers can be used to do this

3 Holding choke valve against **15/64"** drill for AAV 16, or a **No. 3** drill for AAV 26 between the choke valve and the air horn as illustrated in FIG 6, tighten locknut lightly with tool T 25047

4 Remove tool **T-25057** and tool **T-25046.** Hold choke valve in closed position and tighten locknut securely CHECK CHOKE VALVE OPENING to be certain the setting wasn t disturbed Do not endeavor to change position of serrated washer or piston lever without loosening locknut

THERMOSTAT SETTING

The thermostat is calibrated and properly set at the factory to give satisfactory performance with the regular blends of gasoline When placing the thermostat cover assembly on the housing use precaution that the edge of the screen is not crimped or creased to cause a leak Locate the thermostat hook at the bottom of the housing and then rotate the cover in the "RICH direction until the O mark coincides with the projection on the housing This procedure is recommended to make certain that the thermostat hook contacts the pin on the choke lever Place the lugs in position and fasten the cover screws securely If extremely high volatile fuel is continuously used or if some exceptional condition is encountered, it may be desirable to slightly vary the adjustment of the cover to obtain the best possible performance **Do not, however, vary the adjustment more than two graduations in either direction.** The thermostat need not be changed unless some part of the assembly has been tampered with or is damaged In such cases it is necessary to replace the entire assembly The numeral **"6"** is stamped on the face of the thermostat cover to distinguish them from covers used on previous models NOTE When assembling heat tube connection nut onto thermostat cover do not use excessive pressure in order to avoid changing the position of the cover



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No	Part No	Part Name
	1	**P-22499**	Float Needle Valve Clip & Seat 101″ (**NOT VAR**)
	2	**J-5655-G**	Complete Gasket Set
	* 4	**P-24736**	Pump Piston Link and Spring (Complete)
	* 5	**P-24743**	Spring—Pump Duration
	6	**P-18144**	Pump Inlet Check Valve
	7	**P-21197**	Power By Pass Jet No 54 (**NOT VAR**)
	8	**P-19448**	Gasket—By Pass Jet
	9	**P-22803**	Vacuum Power Piston
	10	**P-15478**	Idle Needle Valve
	11	**P-18710**	Spring—Idle Needle Valve
	*12	**P-24673**	Metering Jet **052″** (**VAR**)
		P-24673	Metering Jet **051″** Heavy Duty Air Cleaner (**VAR**)
	*13	**P-24670**	Main Discharge Jet No 32 28 (**NOT VAR**)
	*14	**P-24780**	Float with Lever
	15	**P-2885**	Gasket—Float Needle Valve Seat
	*16	**P-24727**	Gasket—Air Horn
	*17	**P-24735**	Gasket—Main Body
	18	**P-19424**	Idle Tube
	19	**P-23902**	Plug—Main Discharge Jet
	21	**P-3157**	Lockwasher—Main Body Attach Screw
	22	**P-18772**	Lead Ball
	23	**P-22439**	Fulcrum Pin—Float Lever
	25	**P-2475**	Screw—Air Horn Attaching
	26	**P-6668**	Lockwasher—Air Horn Attaching Screw
	27	**P-709**	Screw—Main Body Attaching
	28	**P-19103**	Screw—Throttle Stop
	29	**P-15831**	Spring—Throttle Stop Screw
	*30	**P-24738**	Throttle Lever and Stem
	*31	**P-24740**	Throttle valve (5°) (**NOT VAR**)
	32	**P-23956**	Screw—Throttle Valve Attaching
	*34	**P-24678**	Plug—Check Valve
	35	**P-17380**	Washer—Felt
	36	**P-17060**	Washer—Splash—Pump Link
	37	**P-22643**	Spring—Packing Retainer
	38	**P-22045**	Washer—Cup
	39	**P-22046**	Washer—Spring Retainer
	40	**P-4522**	Screw—Choke Valve Attach
	41	**P-23913**	Choke Valve
	42	**P-23959**	Choke Stem and Lever
	*43	**P-24713**	Assy —Air Horn
	*44	**P-24767**	Assy —Main Body **1-1/8″** Venturi **No 70** H S Bleeder **No 70** Idle Air Bleed (**VAR**)
	*45	**P-24768**	Assy —Throttle Body **No 54-60** Idle Disch Hole **No 42** Air Bleed (**VAR**)
	*46	**P-24677**	Pump Lever
	47	**P-22620**	Pump Rod
	48	**P-9394**	Washer—Pump Rod
	49	**P-19820**	Spring—Washer—Pump Lever Fulcrum Screw
	50	**P-20611**	Fulcrum Screw—Pump Lever
	51	**P-23858**	Strainer—Check Valve
	*52	**P-24683**	Idle Air Bleeder
	53	**P-7170**	Cotter Pin—Pump Rod and Pump Link
	54	**P-22441**	Float Hanger
	55	**P-23985**	High Speed Bleeder No 70 (**NOT VAR**)
	56	**P-6406**	Plug—Float Level Sight
	57	**P-23911**	Elbow—Gas Connection
	58	**P-23912**	Strainer—Gasoline
	*59	**P-24669**	Screw—Pump Disch Nozzle Attach
	60	**P-17063**	Gasket—Pump Disch Nozzle Attach Screw
	61	**P-17030**	Ball—Pump Disch Channel Check Valve
	*62	**P-24594**	Nozzle—Pump Discharge **No 68** (**VAR**)
	*63	**P-24668**	Gasket—Pump Discharge Nozzle
	64	**P-22602**	Lead Gasket—Main Disch Jet
	65	**P-23748**	Reducer—High Speed Bleeder Channel
	66	**P-23507**	Expansion Plug—Idle Disch Hole
	*67	**P-24662**	Lever—Start Air Loose Lever Lock
	68	**P-23203**	Washer—Start Aid Loose Lever Lock Lever Spacer
	*69	**P-24685**	Fast Idle Cam
	70	**P-23952**	Spring—Fast Idle Cam
	*71	**P-24728**	Fast Idle Rod
	72	**112-S-1**	Cotter Pin—Fast Idle Rod
	73	**P-21032**	Washer—Fast Idle Rod
	74	**P-23974**	Snap Ring—Fast Idle
	*75	**P-24681**	Spring—Start Aid Loose Lever
	76	**P-23975**	Manual Control Loose Lever
		P-506	Screw—Manual Control Wire Clamp
	77	**P-23338**	Manual Control Loose Lever Tube Holder
		P-2229	Screw—Man Cont Tube Clamp
		P-15875	Lockwasher—Man Cont Tube Clamps Screw
		P-2290	Nut—Man Cont Tube Clamps Screw
	*78	**P-24693**	Washer—Starting Switch Rotor—Front
	*79	**P-24733**	Gasket—Starting Switch Cover
	*80	**P-24694**	Gasket—Starting Switch Housing
	81	**40-S-49**	Lockwasher—Starting Switch Housing Attach Screw
	82	**61-S-45**	Screw—Starting Switch Housing Attach Screw
	*83	**P-24690**	Housing—Starting Switch
	*84	**P-24691**	Cover—Starting Switch
	*85	**P-24692**	Rotor—Starting Switch
	*86	**P-24732**	Washer—Starting Switch Rotor—Rear
	87	**40-S-1**	Lockwasher—Starting Switch Rotor Attach Nut
	*88	**P-24731**	Nut—Starting Switch Rotor Attach
	89	**40-S-18**	Lockwasher—Starting Switch Cover Att Screw
	90	**61-S-24**	Screw—Starting Switch Cover Attach
	*91	**P-24643**	Spring Clips
	92	**P-13041**	Screw—Main Body Attach (Long)
	*93	**P-24322**	Assy —Choke Housing
	94	**P-23297**	Gasket—Auto Choke Housing
	95	**P-23918**	Screw—Auto Choke Housing Attach
	96	**P-23919**	Vacuum Piston with Link and Lever
	97	**P-23933**	Washer—Thermostat Lever Adj
	98	**P-15875**	Lockwasher—Vac Piston and Link Attach Nut
	99	**P-16571**	Nut—Vacuum Piston and Link Attach
	*100	**P-24687**	Thermostat Cover with Thermostat
	101	**P-23932**	Washer—Thermostat Cover Attach
	102	**P-2866**	Screw—Thermostat Cover Attach Screw
	103	**P-23927**	Screen—Thermostat Cover
	104	**P-22523**	Clip—Float Needle Valve
	*105	**P-24689**	Pump Reducer No 58 (**NOT VAR**)

*Indicates New Part

BENDIX PRODUCTS DIVISION
SOUTH BEND OF BENDIX AVIATION CORPORATION **INDIANA**

Printed in U S A

STROMBERG AAV-16 CARBURETOR

STROMBERG NO A-19181 (CODE NO 7-32) BUICK SYMBOL NO 1315321

SIZE 1″ DUAL D D 3-HOLE FLANGE

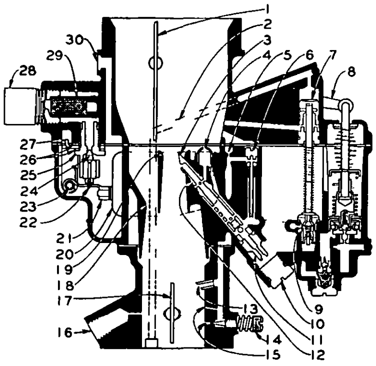
1940 BUICK

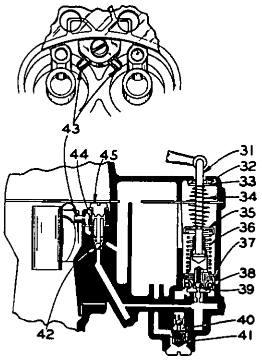
MODELS 40 & 50

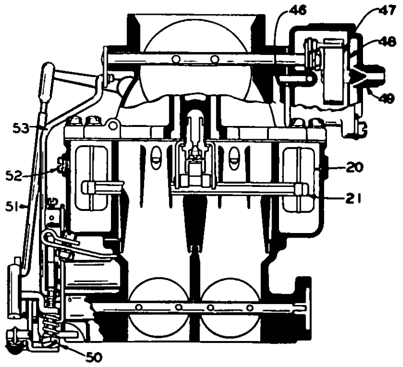
3-3/32″ x 4-1/8″—8 cyl.

PARTS ILLUSTRATED

1 Choke Valve
2 Power Piston Vac Passage
3 Main Discharge Jet
4 High Speed Bleeder
5 Idle Air Bleeder
6 Idle Tube
7 Vacuum Power Piston
8 Pump Fulcrum Arm
9 Power By Pass Jet
10 Main Disch Jet Plug
11 Main Metering Jet
12 Main Dis Jet Lead Gasket
13 Sec Idle Air Bleeder
14 Idle Needle Valve
15 Idle Dis Holes
16 Vac Spark Conn
17 Throttle Valve
18 Primary Venturi
19 Auxiliary Venturi
20 Float
21 Float Lever
22 Float Needle Valve Clip
23 Float Fulcrum Pin
24 Float Needle Valve
25 Float Needle Valve Seat
26 Float Hanger Gaskets
27 Float Hanger







28 Gasoline Inlet
29 Gasoline Strainer
30 Float Chamber Vent
31 Pump Piston Link
32 Felt Dust Washer
33 Retainer Washer
34 Dust Washer Spring
35 Spring Retainer Washer
36 Pump Duration Spring
37 Pump Piston
38 Piston Expansion Spring
39 Pump Relief Valve
40 Pump Inlet Check Valve
41 Pump Inlet Strainer
42 Pump Outlet Check Valve
43 Pump Discharge Nozzles
44 Pump Disch Restriction
45 Pump Discharge Screw
46 Auto Choke Vac Passage
47 Thermostat
48 Screen
49 Hot Air Tube Conn
50 Thro Stop Screw
51 Pump Rod
52 Fuel Level Sight Plug
53 Fast Idle Rod

Note—Specifications below are for latest production; previous major changes listed on Parts Page.

FUEL LEVEL—Measure **19/32″** below top surface of float chamber (without gasket) or level with bottom of level sight hole at **4 to 5 lbs.** pressure To correct fuel level, hold air horn in inverted position Place Tool **T-24971** on gasket Tops of floats should be **3/64″** above tops of vertical guides, which will give approximate fuel level, change if necessary Sides of floats should be tangent to guides of tool without drag.

MAIN METERING SYSTEM—Venturi **1-1/32″**; Main Discharge Jet **No. 32-28** P-24670 (**Tool T-24967**); High Speed Bleeder **No. 70** P-23985 Main Metering Jet **.045″** P-24773 (**Tool T-24924**); Use **Tool T-19099** Screwdriver for removing main jet plug Main metering system controls the flow of fuel up to approximately 65 to 70 M P H

POWER SYSTEM—Power By-Pass Jet **No. 60** P-24674, Power jet to come into operation at **4″ to 6″** of manifold vacuum, which is approximately 65 to 70 M P H (**Tool T-24733**) used to remove vacuum power piston

ACCELERATION—Pump Discharge Nozzles **No. 68** P-24594, Pump capacity **11** to **15** c c per 10 fast strokes, and **15** to **19** c c per 10 slow strokes with pump rod link set in middle setting (**Tool T-24972**) Pump action takes place during acceleration period only

IDLE SYSTEM—Idle Discharge holes **Nos. 54-60.** With throttle valve fully closed and **No. 60** drill in idle hole, edge of valve is located **.022″** + — **.004″** from **No. 60** drill, Idle Air Bleed **No. 42** P-24683 (in throttle body), **No. 70** in main body, Idle Tube **No. 70** P-19424 Adjustment Adjust to smooth running one barrel at a time, OUT to make richer and IN to make leaner, throttle at 7 to 8 M P H

VACUUM SPARK CONTROL—With throttle fully closed and **No. 58** drill in spark hole, edge of valve is located **.041″** + — **.004″** from **No. 58** drill

FLANGE GASKET—P-20466

SPECIAL TOOLS REQUIRED—Use Buick complete Tool Kit **SER-373** T-24733 power piston wrench T-24967 Main Discharge Jet Remover, T-24924 Main Metering Jet Wrench, T-24970 By-Pass Jet and Check Valve Tester, T-24972 Pump Capacity Burrette Gauge, T-24968 Handle T-19099 Main Jet Plug Screwdriver, T-24971 Float Gauge, T-25047 Socket Wrench, T-25057 Auto-Choke Step Gauge, T-25046 Vacuum Piston Setting Gauge

MOTOR TUNE-UP DATA

SPARK PLUG—.025″ to .028″. Clean and adjust at regular intervals.

DISTRIBUTOR—.015″. Breaker gap set .015″. Replace if necessary.

VALVES—Intake: .015″. Exhaust: .015″. Engine hot.

IGNITION TIMING—Breaker contacts to open for No. 1 cylinder when flywheel mark is opposite index line on housing.

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

AUTOMATIC CHOKE CONTROL

GENERAL DESCRIPTION

The automatic choke control is built into a housing integral with the carburetor The principles used in the operation of the automatic choke are manifold vacuum, thermostat spring, and an offset choke valve in the carburetor The vacuum piston and thermostat are directly connected to the carburetor choke valve and accurately control the opening and closing of the choke valve under varying operating temperatures and at various throttle positions A tube leading from the exhaust manifold to the thermostat chamber transmits heat to govern the tension of the thermostat spring A fast idle cam operating in conjunction with the automatic choke provides the proper throttle opening for a cold engine and thereby prevents the engine from stalling during the warming up period

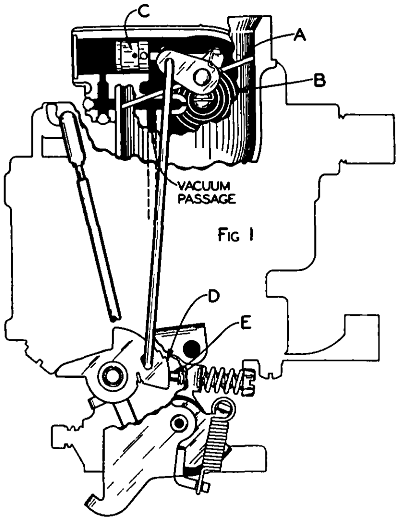


FIG I

STARTING ENGINE

For starting an engine that is cold enough to require full closing of the choke valve, additional tension takes place in the throttle hook up after the accelerator pedal engages the starter. When starting the engine, the accelerator pedal should be depressed only to the point where the additional tension is noticeable. Moving pedal beyond this point will have a tendency to partially open the choke valve to admit sufficient air to clear manifold if the engine should have become flooded

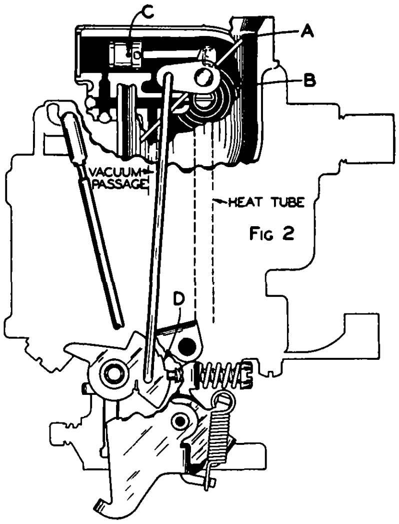


FIG 2

OPERATION AND ADJUSTMENTS

CHOKE CLOSED—FAST IDLE—COLD ENGINE

When the engine becomes cold, the thermostat also cools and gradually gains sufficient tension to partially close the choke valve "A" As soon as the accelerator pedal is depressed to start the engine, the throttle is partially opened so that the throttle stop screw "E" is lifted away from fast idle cam "D" This permits the choke valve to close in accordance with the thermostat tension The throttle stop screw then comes to rest on a higher lobe of the fast idle cam after the engine is running, providing the proper throttle opening for the prevailing engine temperature FIG 1 shows the position of the choke and fast idle mechanism during the cranking period The choke valve "A" is held in closed position during this operation by the tension of the thermostat "B"

CHOKE PARTIALLY OPENED—ENGINE RUNNING—WARMING UP PERIOD

When the engine begins to fire, the manifold vacuum thus created pulls the vacuum piston "C," opening the choke valve "A" against the tension of the thermostat spring "B" Sufficient air is thereby admitted to give a satisfactory running mixture As the choke valve opening is increased, the fast idle cam is allowed to revolve so that the throttle stop screw comes to rest on a lower step when the throttle is opened and then permitted to close FIG 2

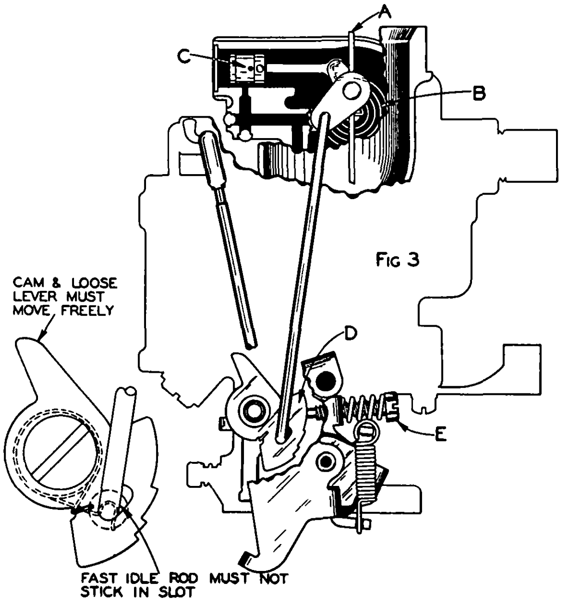

A
C
B
D
E
CAM & LOOSE LEVER MUST MOVE FREELY
FAST IDLE ROD MUST NOT STICK IN SLOT

FIG 3

ENGINE WARM—CHOKE WIDE OPEN—SLOW IDLE

While the engine continues to run, the inrushing air forces the off center choke valve "A" open The amount the choke valve opens is controlled by the vacuum piston and tension of the thermostat Heat is transmitted into the thermostat chamber by hot air being drawn from a "stove" in the exhaust manifold. The thermostat gradually absorbs sufficient heat so that its tension decreases until it does not offer any further resistance to the choke valve opening, and at the same time the fast idle cam "D" rotates until the throttle stop screw is at normal idle position See FIG 3 The throttle stop screw should be adjusted for a car speed of 7 to 8 M P H with the engine at normal operating temperature

NOTE The torsonal spring of the fast idle cam has one end connected to the fast idle rod Make certain that the washer is placed on the rod after the rod is assembled in the cam and that the hook of the spring is properly assembled on the rod It is very essential that the cam moves freely and that the rod does not stick or bind in the slot of the cam

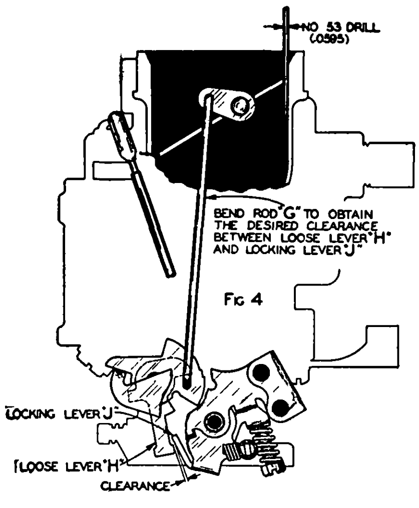

NO 53 DRILL (.0595)
BEND ROD "G" TO OBTAIN THE DESIRED CLEARANCE BETWEEN LOOSE LEVER "H" AND LOCKING LEVER "J"
LOCKING LEVER "J"
LOOSE LEVER "H"
CLEARANCE

FIG 4

When checking the "START AID" mechanism, the fast idle cam setting is automatically obtained The procedure is to hold a **No. 53** drill between the choke valve and the air horn as illustrated in FIG 4.

In this position locking lever "J" should just clear loose lever 'H' while the throttle is opened and closed To obtain the desired clearance bend the fast idle rod at the point indicated Care should be taken so as not to distort the fast idle cam return spring or cause a bind between the rod and the slot in the cam

With the throttle in the wide open position, the space between the top of the valve and the air horn should be between **.156"** and **187"**. This can be measured by placing a drill of **11/64"** diameter between the valve and the air horn, FIG 5 This setting is properly made at the factory, however, if it is necessary to re adjust it it can be done by bending ear 'F" to the desired position Care should be taken to make certain that the fast idle rod does not bind and the fast idle cam spring is not distorted

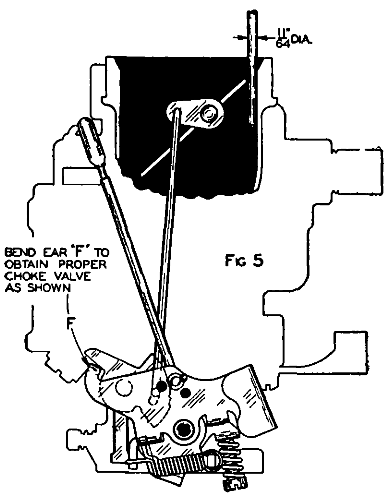


FIG 5

SERVICING THE AUTOMATIC CHOKE CONTROL

The automatic choke control is properly set at the factory Under ordinary circumstances it will give many miles of satisfactory service

In the operations of an automatic choke control the one point that must be borne in mind at all times is that all parts of the unit must operate freely and not stick or bind in any position of travel

DISASSEMBLY

1 Remove carburetor from manifold

2 Remove thermostat cover screws and lug washers Thermostat cover assembly can then be taken off of the choke housing

3 Loosen lock nut, removing lock washer and serrated washer

4 Remove vacuum piston assembly from housing

5 With a clean rag saturated with acetone or alcohol, thoroughly clean the cylinder walls of any dirt or other foreign material which may have accumulated in regular service Use compressed air to blow out all of the channels The surface of the piston should also be thoroughly cleaned Do not use any abrasive materials for cleaning piston or cylinder

6 Thoroughly clean the screen on the inside of the cover by blowing compressed air into the heat tube connection, and also between the screen and the cover, using precaution not to distort the screen

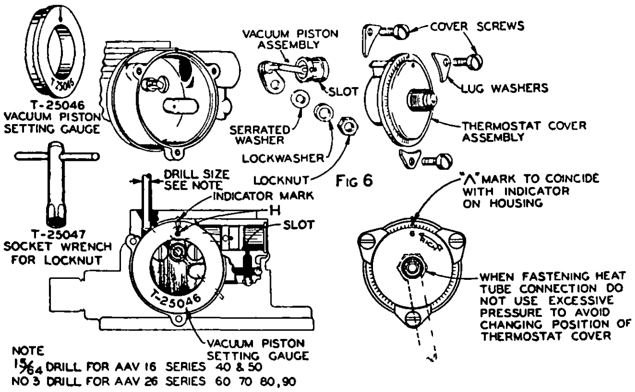

T-25046 VACUUM PISTON SETTING GAUGE
VACUUM PISTON ASSEMBLY
SLOT
SERRATED WASHER
LOCKWASHER
LOCKNUT
COVER SCREWS
LUG WASHERS
THERMOSTAT COVER ASSEMBLY
T-25047 SOCKET WRENCH FOR LOCKNUT
DRILL SIZE SEE NOTE
INDICATOR MARK
H
SLOT
T-25046
VACUUM PISTON SETTING GAUGE
"A" MARK TO COINCIDE WITH INDICATOR ON HOUSING
WHEN FASTENING HEAT TUBE CONNECTION DO NOT USE EXCESSIVE PRESSURE TO AVOID CHANGING POSITION OF THERMOSTAT COVER
NOTE
15/64 DRILL FOR AAV 16 SERIES 40 & 50
NO 3 DRILL FOR AAV 26 SERIES 60 70 80,90

FIG 6

REASSEMBLY

1 Place vacuum piston in cylinder with slot on piston assembled **DOWN. THIS IS VERY IMPORTANT, ALSO DO NOT USE ANY TYPE OF LUBRICANT ON PISTON OR IN CYLINDER.** Assemble lever onto choke stem Next assemble serrated washer, lockwasher, and lock nut, fastening the nut **merely by hand.**

2 Referring to FIG 6, place tool **T-25046** on choke housing with the small hole (H) fitting over the pin of the choke lever The indication line at the outer diameter of the tool should be set to line up with the projection on the choke housing The tool should be held in this position by hand or two of the cover screws and lug washers can be used to do this

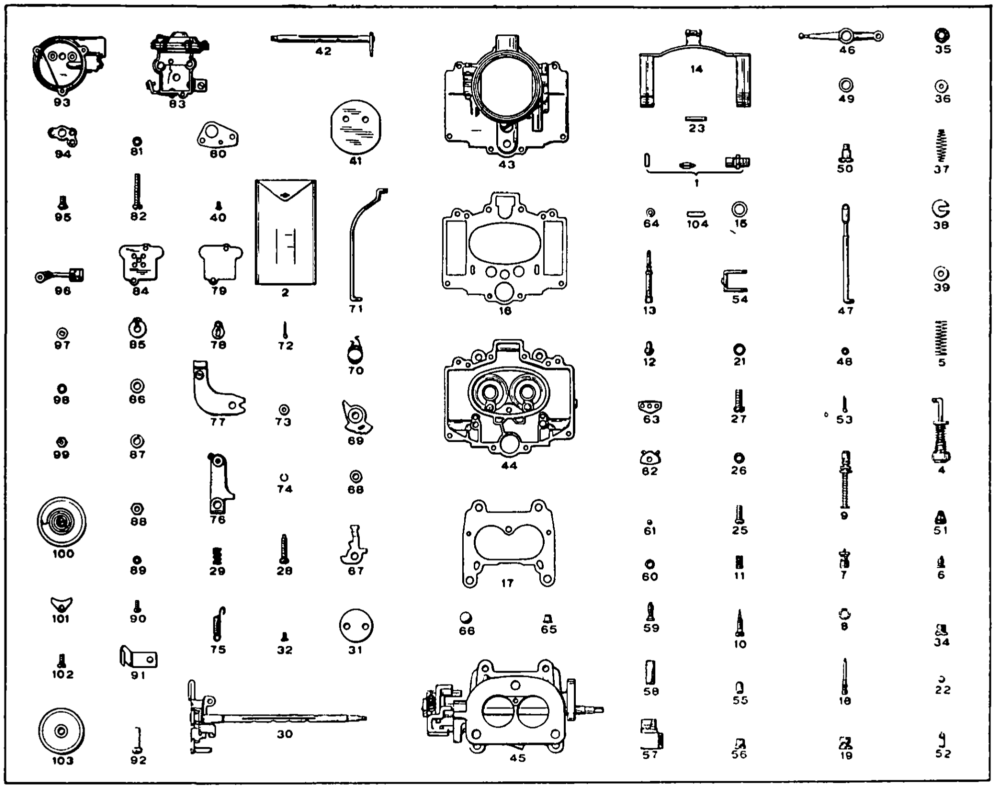
3 Holding choke valve against **15/64"** drill for AAV 16, or a **No. 3** drill for AAV 26 between the choke valve and the air horn as illustrated in FIG 6, tighten locknut lightly with tool T 25047

4 Remove tool **T-25057** and tool **T-25046.** Hold choke valve in closed position and tighten locknut securely CHECK CHOKE VALVE OPENING to be certain the setting wasn't disturbed Do not endeavor to change position of serrated washer or piston lever without loosening locknut

THERMOSTAT SETTING

The thermostat is calibrated and properly set at the factory to give satisfactory performance with the regular blends of gasoline When placing the thermostat cover assembly on the housing, use precaution that the edge of the screen is not crimped or creased to cause a leak Locate the thermostat hook at the bottom of the housing and then rotate the cover in the "RICH" direction until the O" mark coincides with the projection on the housing This procedure is recommended to make certain that the thermostat hook contacts the pin on the choke lever Place the lugs in position and fasten the cover screws securely If extremely high volatile fuel is continuously used or if some exceptional condition is encountered, it may be desirable to slightly vary the adjustment of the cover to obtain the best possible performance **Do not, however, vary the adjustment more than two graduations in either direction.** The thermostat need not be changed unless some part of the assembly has been tampered with or is damaged In such cases it is necessary to replace the entire assembly The numeral **"6"** is stamped on the face of the thermostat cover to distinguish them from covers used on previous models NOTE When assembling heat tube connection nut onto thermostat cover do not use excessive pressure in order to avoid changing the position of the cover

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No.	Part No.	Part Name
	1	P-22499	Float Needle Valve Clip and Seat 101″ (NOT VAR)
	2	J-5656-G	Complete Gasket Set
	* 4	P-24675	Pump Piston Link and Spring (Complete)
	* 5	P 24676	Spring—Pump Duration
	6	P-18144	Pump Inlet Check Valve
	* 7	P-24674	Power By Pass Jet No 60 (NOT VAR)
	8	P-19448	Gasket—By Pass Jet
	9	P-22803	Vacuum Power Piston
	10	P-15478	Idle Needle Valve
	11	P-18710	Spring—Idle Needle Valve
	*12	P-24773	Metering Jet 045″ (VAR)
	*13	P-24670	Main Disch Jet No 32 28 (NOT VAR)
	*14	P-24780	Float with Lever
	15	P-2885	Gasket—Float Needle Valve Seat
	*16	P-24727	Gasket—Air Horn
	*17	P-24672	Gasket—Main Body
	18	P-19424	Idle Tube
	19	P-23902	Plug—Main Discharge Jet
	21	P-3157	Lockwasher—Main Body Attach Screw
	22	P-18772	Lead Ball
	23	P-22439	Fulcrum Pin—Float Lever
	25	P-2475	Screw—Air Horn Attaching
	26	P-6668	Lockwasher—Air Horn Attaching Screw
	27	P-709	Screw—Main Body Attaching
	28	P-19103	Screw—Throttle Stop
	29	P-15831	Spring—Throttle Stop Screw
	*30	P-24679	Throttle Lever and Stem
	*31	P-24684	Throttle Valve (5°) (NOT VAR)
	32	P-20904	Screw—Throttle Valve Attaching
	*34	P-24678	Plug—Check Valve
	35	P-17380	Washer—Felt
	36	P-17060	Washer—Splash—Pump Link
	37	P-22643	Spring—Packing Retainer
	38	P-22045	Washer—Cup
	39	P-22046	Washer—Spring Retainer
	40	P-4522	Screw—Choke Valve Attach
	41	P-23913	Choke Valve
	42	P-23959	Choke Stem and Lever
	*43	P-24713	Assy—Air Horn
	*44	P-24711	Assy—Main Body **1-1/32″** Venturi **No. 70** H S Bleeder **No 70** Idle Air Bleed (VAR)
	*45	P-24712	Assy—Throttle Body **No 54-60** Idle Disch Hole **No 42** Air Bleed (VAR)
	*46	P-24677	Pump Lever
	47	P-22620	Pump Rod
	48	P-9394	Washer—Pump Rod
	49	P-19820	Spring—Washer—Pump Lever Fulcrum Screw
	50	P-20611	Fulcrum Screw—Pump Lever
	51	P-23858	Strainer—Check Valve
	*52	P-24683	Idle Air Bleeder No 42 (NOT VAR)
	53	P-7170	Cotter Pin—Pump Rod and Pump Link
	54	P-22441	Float Hanger
	55	P-23985	High Speed Bleeder No 70 (NOT VAR)
	56	P-6406	Plug—Float Level Sight
	57	P-23911	Elbow—Gas Connection
	58	P-23912	Strainer—Gasoline
	*59	P-24669	Screw—Pump Disch Nozzle Attach
	60	P-17063	Gasket—Pump Disch Nozzle Attach Screw
	61	P-17030	Ball—Pump Disch Channel Check Valve
	*62	P-24594	Nozzle—Pump Discharge **No. 68** (VAR)
	*63	P-24668	Gasket—Pump Discharge Nozzle
	64	P-22602	Lead Gasket—Main Disch Jet
	65	P-15458	Plug—Idle Channel
	66	P-23507	Expansion Plug—Idle Disch Hole
	*67	P-24662	Lever—Start Aid Loose Lever Lock
	68	P-23203	Washer—Start Aid Loose Lever Lock Lever Spacer
	*69	P-24685	Fast Idle Cam
	70	P-23952	Spring—Fast Idle Cam
	*71	P-24728	Fast Idle Rod
	72	112-S-1	Cotter Pin—Fast Idle Rod
	73	P-21032	Washer—Fast Idle Rod
	74	P-23974	Snap Ring—Fast Idle
	*75	P-24681	Spring—Start Aid Loose Lever
	*76	P-24698	Manual Control Loose Lever
		P-506	Screw—Manual Control Wire Clamp
	77	P-23338	Manual Control Loose Lever Tube Holder
		P-2229	Screw—Man Cont Tube Clamp
		P-15875	Lockwasher—Man Cont Tube Clamps Screw
		P-2290	Nut—Man Cont Tube Clamps Screw
	*78	P-24693	Washer—Starting Switch Rotor Front
	*79	P-24733	Gasket—Starting Switch Cover
	*80	P-24694	Gasket—Starting Switch Housing
	*81	40-S-49	Lockwasher—Starting Switch Housing Attach Screw
	*82	61-S-45	Screw—Starting Switch Housing Attach Screw
	*83	P-24690	Housing—Starting Switch
	*84	P-24691	Cover—Starting Switch
	*85	P-24692	Rotor—Starting Switch
	*86	P-24732	Washer—Starting Switch Rotor—Rear
	*87	40-S-1	Lockwasher—Starting Switch Rotor Attach Nut
	*88	P-24731	Nut—Starting Switch Rotor Attach
	*89	40-S-18	Lockwasher—Starting Switch Cover Att Screw
	*90	61-S-24	Screw—Starting Switch Cover Attach
	*91	P-24643	Spring Clips
	92	P-13041	Screw—Main Body Attach (Long)
	*93	P-24714	Assy—Choke Housing
	94	P-23297	Gasket—Auto Choke Housing
	95	P-23918	Screw—Auto Choke Housing Attach
	96	P-23919	Vacuum Piston with Link and Lever
	97	P-23933	Washer—Thermostat Lever Adj
	98	P-15875	Lockwasher—Vac Piston and Link Attach Nut
	99	P-16571	Nut—Vac Piston and Link Attach
	*100	P-24687	Thermostat Cover with Thermostat
	101	P-23932	Washer—Thermostat Cover Attach Screw
	102	P-2866	Screw—Thermostat Cover Attach Screw
	103	P-23927	Screen—Thermostat Cover
	104	P-22523	Clip—Float Needle Valve

*Indicates New Part

BENDIX PRODUCTS DIVISION

SOUTH BEND OF BENDIX AVIATION CORPORATION **INDIANA**

Printed in U S A

STROMBERG AAV-16 CARBURETOR

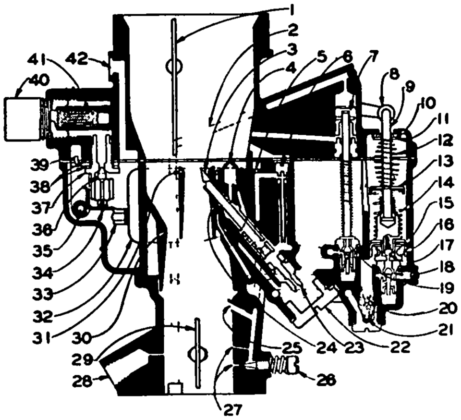
1939
BUICK
MODEL—40
(Replacement Eqpt.)
3-3/32′ x 4-1/8″—8 cyl.

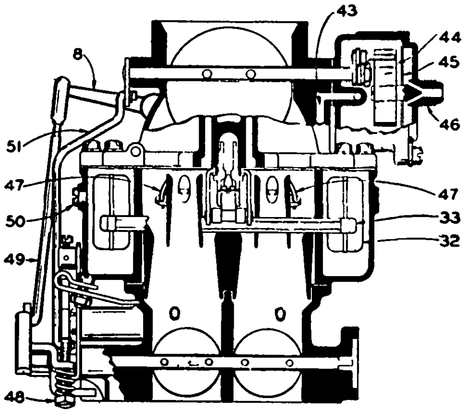
STROMBERG NO A-18971 (CODE NO. 7-24)

SIZE 1″ DUAL D D 3-HOLE FLANGE

PARTS ILLUSTRATED

1 **Choke** Valve
2 **Power** Vacuum Passage
3 **Main** Discharge Jet
4 High Speed Bleeder
5 Idl Air Bleeder
6 Idle Tube
7 Vac Power Piston
8 Pump Fulcrum Arm
9 Pump Piston Link
10 Felt Dust Washer
11 Retainer Washer
12 Dust Washer Spring
13 Spring Retainer Washer
14 Pump Duration Spring
15 Pump Piston
16 Piston Expansion Spring
17 Pump Relief Valve
18 Pump By Pass Jet
19 Power By Pass Jet
20 Pump Inlet Check Valve
21 Pump Inlet Strainer
22 Main Dis Jet Plug
23 Main Metering Jet
24 Main Dis Jet Lead Gasket
25 Sec Idle Air Bleed
26 Idle Needle Valve
27 Idle Dis Holes
28 Vac Spark Conn
29 Throttle Valve
30 Primary Venturi
31 Auxiliary Venturi
32 Float
33 Float Lever
34 Float Needle Valve Clip
35 Float Fulcrum Pin
36 Float Needle Valve
37 Float Needle Valve Seat
38 Float Hanger Gaskets
39 Float Hanger
40 Gasoline Inlet
41 Gasoline Strainer
42 Float Chamber Vent
43 Auto Choke Vac Passage
44 Thermostat
45 Screen
46 Hot Air Tube Conn
47 Pump Dis Nozzle
48 Thro Stop Screw
49 Pump Rod
50 Fuel Level Sight Plug
51 Fast Idle Rod





Note—Specifications below are for latest production; previous major changes listed on Parts Page.

FUEL LEVEL—Measure **19/32″** below top surface of float chamber (without gasket) or **1/32″** above bottom of level sight hole, at **3 lbs.** pressure To correct fuel level, hold air horn in inverted position Place Tool **T-24971** on gasket Tops of floats should be **1/32″** below tops of vertical guides which will give approximate fuel level, change if necessary Sides of floats should be tangent to guides of tool without drag

MAIN METERING SYSTEM—Venturi **1-1/32″**; Main Discharge Jet **No. 28** P 23315 **(Tool T-24967)** High Speed Bleeder **No. 65** P 23901 Main Metering Jet **.047″** P 19442 **(Tool T-24924)**; Use **Tool T-19099** Screwdriver for removing main jet plug Main metering system controls the flow of fuel up to approximately 65 to 70 M P H

POWER SYSTEM—Power By Pass Jet **No. 62** P 23361 Power jet to come into operation at **4″ to 6″** of manifold vacuum, which is approximately 65 to 70 M P H **(Tool T-24733)** used to remove vacuum power piston

ACCELERATION—Pump Discharge Nozzles **No. 65** in main body, Pump By Pass Jet **No. 63** P 23742 Pump capacity **9** to **12** c c per 10 fast strokes, and **17** to **20** c c per 10 slow strokes with pump rod link set in middle setting **(Tool T-24972)** Pump action takes place during acceleration period only

IDLE SYSTEM—Idle Discharge holes **Nos. 54-60.** With throttle valve fully closed and **No. 60** drill in idle hole, edge of valve is located **.022″** + — **.004″** from **No. 60** drill, Idle Air Bleed **No. 32** P 23327 (in throttle body), **No. 60** in main body, Idle Tube **No. 60** P 23325 Adjustment Adjust to smooth running one barrel at a time, OUT to make richer and IN to make leaner, throttle at 7 to 8 M P H

VACUUM SPARK CONTROL—With throttle fully closed and **No. 58** drill in spark hole, edge of valve is located **.041″** + — **.004″** from **No. 58** drill

FLANGE GASKET—P 20466

SPECIAL TOOLS REQUIRED—Use Buick complete Tool Kit **SER-373** T 24733 Power piston wrench T 24967 Main Discharge Jet Remover T-24924 Main Metering Jet Wrench, T 24970 By Pass Jet and Check Valve Tester, T 24972 Pump Capacity Burrette Gauge, T 24968 Handle T 19099 Main Jet Plug Screwdriver, T 24971 Float Gauge, T 25047 Socket Wrench, T 25057 Auto Choke Step Gauge, T 25046 Vac Piston Setting Gauge

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MOTOR TUNE-UP DATA

SPARK PLUG—.025″.
Clean and adjust at regular intervals.

DISTRIBUTOR—.015″. Breaker gap set .015″. Replace if necessary.

IGNITION TIMING—Breaker contacts to open 4° before T.D.C.

VALVES—Intake: .015″. Exhaust: .015″. Engine hot.

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

AUTOMATIC CHOKE CONTROL

GENERAL DESCRIPTION

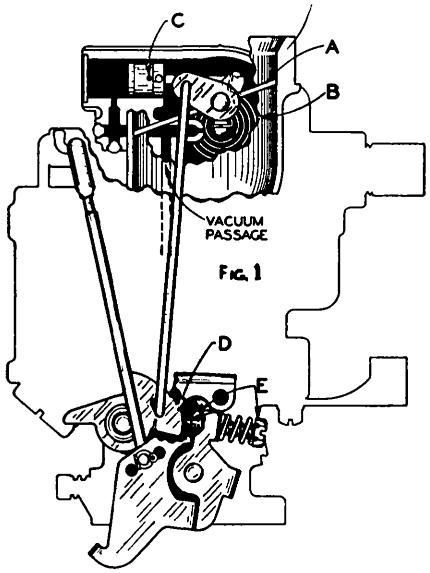


Fig. 1

The automatic choke control is built into a housing integral with the carburetor. The principles used in the operation of the automatic choke are manifold vacuum, thermostat spring, and an offset choke valve in the carburetor. The vacuum piston and thermostat are directly connected to the carburetor choke valve and accurately control the opening and closing of the choke valve under varying operating temperatures and at various throttle positions. A tube leading from the exhaust manifold to the thermostat chamber transmits heat to govern the tension of the thermostat spring. A fast idle cam operating in conjunction with the automatic choke provides the proper throttle opening for a cold engine and thereby prevents the engine from stalling during the warming up period.

OPERATION AND ADJUSTMENTS

CHOKE CLOSED—FAST IDLE—COLD ENGINE

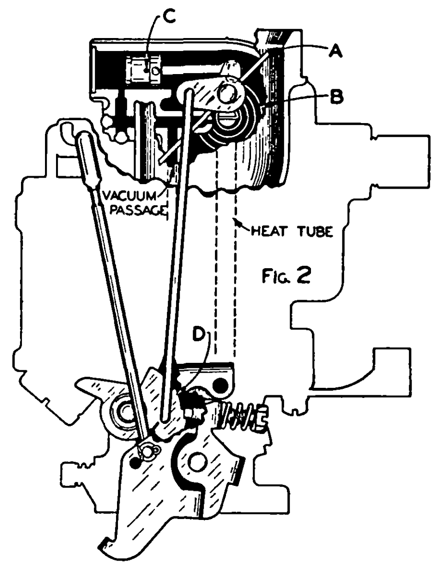


Fig. 2

When the engine becomes cold, the thermostat also cools and gradually gains sufficient tension to partially close the choke valve "A". As soon as the accelerator pedal is depressed to start the engine, the throttle is partially opened so that the throttle stop screw "E" is lifted away from fast idle cam "D". This permits the choke valve to close in accordance with the thermostat tension. The throttle stop screw then comes to rest on a higher lobe of the fast idle cam after the engine is running, providing the proper throttle opening for the prevailing engine temperature. FIG. 1 shows the position of the choke and fast idle mechanism during the cranking period. The choke valve "A" is held in closed position during this operation by the tension of the thermostat "B".

CHOKE PARTIALLY OPENED — ENGINE RUNNING — WARMING UP PERIOD

When the engine begins to fire, the manifold vacuum thus created pulls the vacuum piston "C", opening the choke valve "A" against the tension of the thermostat spring "B". Sufficient air is thereby admitted to give a satisfactory running mixture. As the choke valve opening is increased, the fast idle cam is allowed to revolve so that the throttle stop screw comes to rest on a lower step when the throttle is opened and then permitted to close. FIG. 2.

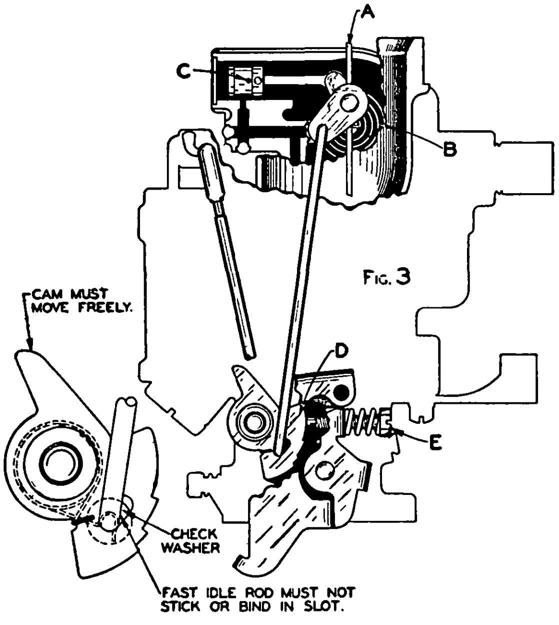


Fig. 3

ENGINE WARM — CHOKE WIDE OPEN — SLOW IDLE

While the engine continues to run, the inrushing air forces the off center choke valve "A" open. The amount the choke valve opens is controlled by the vacuum piston and tension of the thermostat. Heat is transmitted into the thermostat chamber by hot air being drawn from a "stove" on the exhaust manifold. The thermostat gradually absorbs sufficient heat so that its tension decreases until it does not offer any further resistance to the choke valve opening, and at the same time the fast idle cam "D" rotates until the throttle stop screw is at normal idle position. See FIG 3. The throttle stop screw should be adjusted for a car speed of 7 to 8 M. P. H. with the engine at normal operating temperature.

NOTE: The torsional spring of the fast idle cam has one end connected to the fast idle rod. Make certain that the washer is placed on the rod after the rod is assembled in the cam and that the hook of the spring is properly assembled on the rod. It is very essential that the cam moves freely and that the rod does not stick or bind in the slot of the cam.

CHOKE RELEASE

If for any reason the engine should become flooded, the choke valve can be partially opened by depressing the accelerator pedal to the full extent of its travel. This results in ear "F" of the throttle lever making contact with the fast idle cam, rotating it, and forcing the choke valve open.

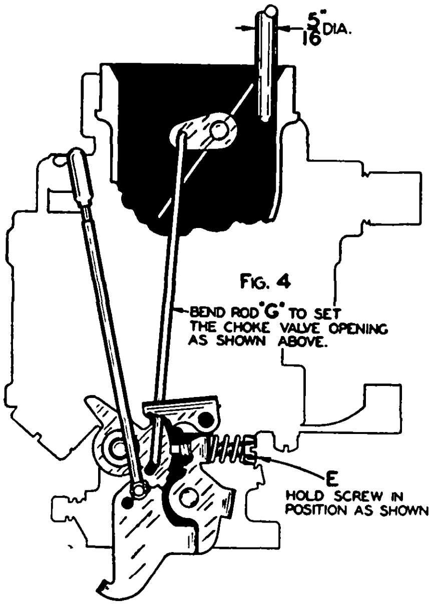

5/16" DIA.
BEND ROD "G" TO SET THE CHOKE VALVE OPENING AS SHOWN ABOVE.
E
HOLD SCREW IN POSITION AS SHOWN

FIG. 4

CHECKING FAST IDLE AND WIDE OPEN KICK ADJUSTMENTS

To check the fast idle setting of the carburetor it is merely necessary to hold the throttle stop screw "E" on the low lobe of the fast idle cam. FIG. 4. Move the choke valve as far as possible to closed position. The opening that remains should be equivalent to a **5/16"** dia. drill. If this amount of opening is not obtained it is only necessary to slightly bend the fast idle rod "G". Care should be taken so as not to distort the fast idle cam return spring or cause a bind between the rod and the slot in the cam.

With the throttle in the wide open position, the space between the top of the valve and the air horn should be between .156" and .187". This can be measured by placing a drill of **11/64"** dia. between the valve and the air horn. This setting is properly made at the factory, however, if it is necessary to re-adjust it, it can be done by bending ear "F" to the desired position. Care should be taken to make certain that the fast idle rod does not bind and the fast idle cam spring is not distorted. Tool **T-25057** choke valve setting gauge is recommended instead of using drills.

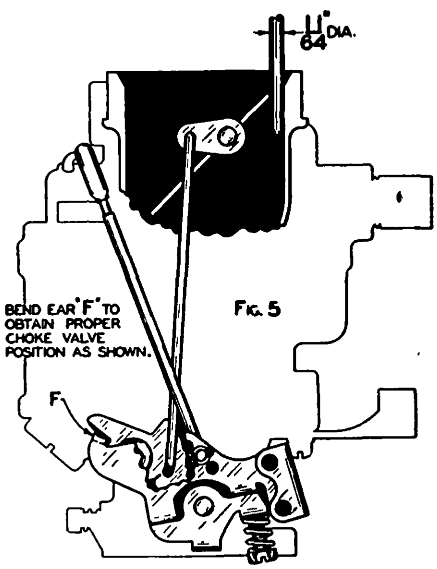

11/64" DIA.
BEND EAR "F" TO OBTAIN PROPER CHOKE VALVE POSITION AS SHOWN.
F

FIG. 5

SERVICING THE AUTOMATIC CHOKE CONTROL

The automatic choke control is properly set at the factory. Under ordinary circumstances it will give many miles of satisfactory service.

DISASSEMBLY

1. Remove carburetor from manifold.
2. Remove thermostat cover screws and lug washers. Thermostat cover assembly can then be taken off of the choke housing.
3. Loosen lock nut, removing lock washer and serrated washer.
4. Remove vacuum piston assembly from housing.
5. With a clean rag saturated with acetone or alcohol, thoroughly clean the cylinder walls of any dirt or other foreign material which may have accumulated in regular service. Use compressed air to blow out all of the channels. The surface of the piston should also be thoroughly cleaned. **Do not use any abrasive materials for cleaning piston or cylinder.**
6. Thoroughly clean the screen on the inside of the cover by blowing compressed air into the heat tube connection, and also between the screen and the cover, using precaution not to distort the screen.

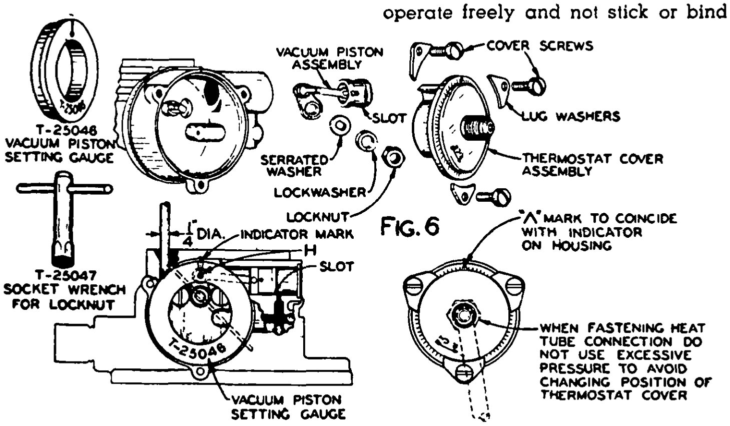

T-25046
VACUUM PISTON SETTING GAUGE
T-25047
SOCKET WRENCH FOR LOCKNUT
VACUUM PISTON ASSEMBLY
SLOT
SERRATED WASHER
LOCKWASHER
LOCKNUT
1/4" DIA.
INDICATOR MARK
H
SLOT
T-25046
VACUUM PISTON SETTING GAUGE
COVER SCREWS
LUG WASHERS
THERMOSTAT COVER ASSEMBLY
"A" MARK TO COINCIDE WITH INDICATOR ON HOUSING
WHEN FASTENING HEAT TUBE CONNECTION DO NOT USE EXCESSIVE PRESSURE TO AVOID CHANGING POSITION OF THERMOSTAT COVER

FIG. 6

In the operations of an automatic choke control the one point that must be borne in mind at all times is that all parts of the unit must operate freely and not stick or bind in any position of travel.

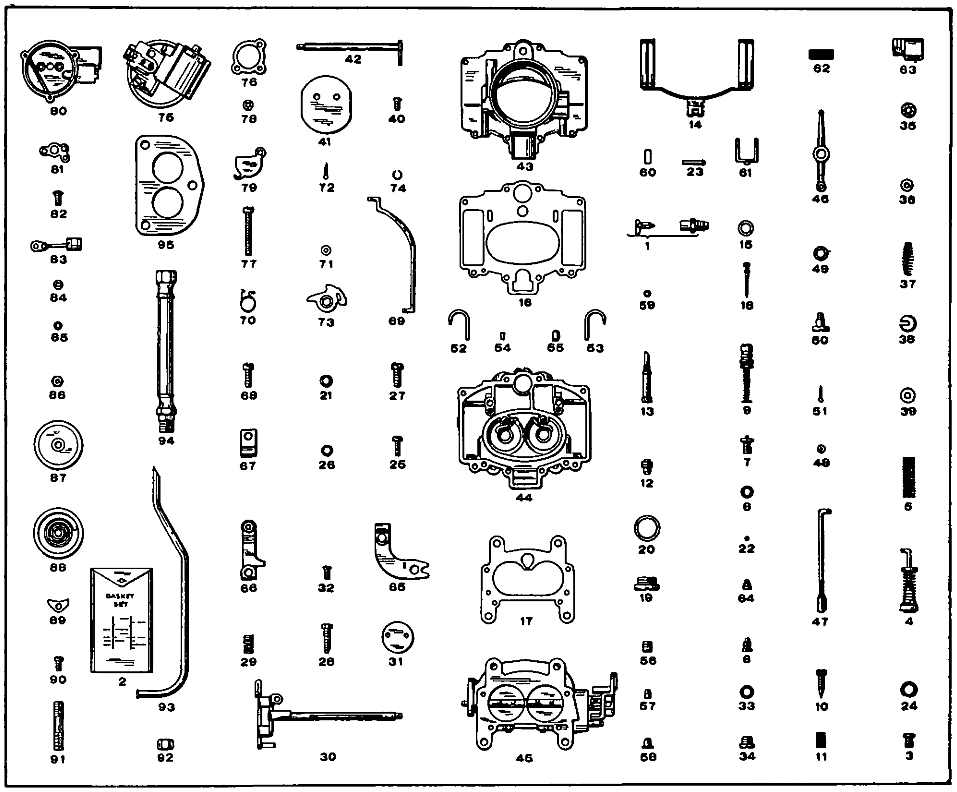
REASSEMBLY

1. Place vacuum piston in cylinder with slot on piston assembled **DOWN. THIS IS VERY IMPORTANT. ALSO DO NOT USE ANY TYPE OF LUBRICANT ON PISTON OR IN CYLINDER.** Assemble lever onto choke stem. Next assemble serrated washer, lockwasher, and locknut, fastening the nut **firmly by hand.**
2. Referring to FIG. 6, place tool **T-25046** on choke housing with the small hole (H) fitting over the pin of the choke lever. The indication line at the outer diameter of the tool should be set to line up with the projection on the choke housing. The tool should be held in this position by hand or two of the cover screws and lug washers can be used to do this.
3. Holding choke valve against tool **T-25057** or a ¼" dia. drill between the choke valve and the air horn as illustrated in Fig. 6. Tighten locknut lightly with tool **T-25047.**
4. Remove tool **T-25057** and tool **T-25046.** Hold choke valve in closed position and tighten locknut securely. CHECK CHOKE VALVE OPENING to be certain the setting wasn't disturbed. Do not endeavor to change position of serrated washer or piston lever without loosening locknut.

THERMOSTAT SETTING

The thermostat is calibrated and properly set at the factory to give satisfactory performance with the regular blends of gasoline. When placing the thermostat cover assembly on the housing, use precaution that the edge of the screen is not crimped or creased to cause a leak. Locate the thermostat hook at the bottom of the housing and then rotate the cover in the "RICH" direction until the "O" mark coincides with the projection on the housing. This procedure is recommended to make certain that the thermostat hook contacts the pin on the choke lever. Place the lugs in position and fasten the cover screws securely. If extremely high volatile fuel is continuously used or if some exceptional condition is encountered, it may be desirable to slightly vary the adjustment of the cover to obtain the best possible performance. **Do not, however, vary the adjustment more than two graduations in either direction.** The thermostat need not be changed unless some part of the assembly has been tampered with or is damaged. In such cases it is necessary to replace the entire assembly. NOTE: When assembling heat tube connection nut onto thermostat cover do not use excessive pressure in order to avoid changing the position of the cover.

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No	Part No	Part Name
	1	P-22499	Float Needle Valve Clip & Seat 101″ (NOT VAR)
	2	J-5553-G	Complete Gasket Set
	3	P-23742	Pump By Pass Jet No 63 (NOT VAR)
	4	P-23322	Pump Piston Link and Spring (Complete)
	5	P-22870	Spring—Pump Duration
	6	P-18144	Pump Inlet Check Valve
	7	P-23361	Power By Pass Jet No 62 (NOT VAR)
	8	P-19448	Gasket—By Pass Jet
	9	P-22803	Vacuum Power Piston
	10	P-15478	Idle Needle Valve
	11	P-18710	Spring—Idle Needle Valve
	12	P-19442	Metering Jet 047″ (VAR)
	13	P-23315	Main Disch Jet No 28 (NOT VAR)
	14	P-22433	Float with Lever
	15	P-2885	Gasket—Float Needle Valve Seat
	16	P-22451	Gasket—Air Horn
	17	P-22522	Gasket—Main Body
	18	P-23325	Idle Tube
	19	P-21767	Plug—Main Discharge Jet
	20	P-22851	Gasket—Main Discharge Jet Plug
	21	P-3157	Lockwasher—Main Body Attach Screw
	22	P-18772	Lead Ball
	23	P-22439	Pin—Float Lever Fulcrum
	24	P-16960	Spring—Pump Piston Leather Expansion
	25	P-2475	Screw—Air Horn Attach
	26	P-6668	Lockwasher—Air Horn Attach Screw
	27	P-709	Screw—Main Body Attach
	28	P-19103	Screw—Throttle Stop
	29	P-15831	Spring—Throttle Stop Screw
	30	P-24221	Throttle Lever and Stem
	31	P-23782	Throttle Valve (5°) (NOT VAR)
	32	P-23956	Screw—Throttle Valve Attach
	33	P-7338	Gasket—Check Valve Plug
	34	P-19716	Plug—Check Valve
	35	P-17380	Washer—Felt—Pump Link
	36	P-17060	Washer—Splash—Pump Link
	37	P-22643	Spring—Felt Retainer
	38	P-22045	Washer—Horseshoe
	39	P-22046	Washer—Spring Retainer
	40	P-4522	Screw—Choke Valve Attach
	41	P-23913	Choke Valve
	42	P-23959	Choke Stem and Lever
	43	P-24713	Assy —Air Horn
	44	P-24829	Main Body—**1-1/32″** Venturi **No 65** High Speed Bleeder **No. 70** Idle Air Bleeder **No 65** Pump Discharge Tubes (VAR)
		P-8495	Expansion Plug
	45	P-24828	Throttle Body—**No 54-60** Idle Disch Holes **No 58** Spark Control Hole (VAR)
		P-23327	Idle Air Bleeder No 32 (NOT VAR)
		P-23953	Pin—Fast Idle Cam
	46	P-23735	Pump Lever
	47	P-22620	Pump Rod
	48	P-9394	Washer—Pump Rod
	49	P-19820	Washer—Pump Lever Fulcrum Screw Spring
	50	P-20611	Screw—Pump Lever Fulcrum
	51	P-7170	Cotter Pin—Pump Rod and Pump Link
	52	P-23246	Tube—Pump Disch (Left) No 65 (NOT VAR)
	53	P-23245	Tube—Pump Disch (Right) No 65 (NOT VAR)
	54	P-19430	Wedge—Pump Discharge Tube
	55	P-23901	High Speed Bleeder No 65 (NOT VAR)
	56	P-6406	Plug—Float Level Sight
	57	P-23748	Reducer—High Speed Bleeder—Channel
	58	P-15459	Plug—Idle Discharge
	59	P-22602	Lead Gasket—Main Discharge Jet
	60	P-22523	Clip—Float Needle Valve
	61	P-22441	Float Hanger
	62	P-23912	Strainer—Gasoline
	63	P-23911	Elbow—Gas Connection
	64	P-23858	Strainer—Pump Check Valve
	65	P-23338	Throttle Loose Lever Tube Holder
		P-2229	Screw—Tube Clamp
		P-2290	Nut—Tube Clamp Screw
		P-15875	Lockwasher—Tube Clamp Screw
	66	P-23335	Loose Lever
		P-506	Screw—Wire Clamp
	67	P-23508	Clip—Spring
	68	P-13041	Screw—Main Body Attach
	69	P-23955	Fast Idle Rod
	70	P-23952	Spring—Fast Idle Cam
	71	P-21032	Washer—Fast Idle Rod
	72	112-S-1	Cotter Pin—Fast Idle Rod
	73	P-23972	Fast Idle Cam
	74	P-23974	Snap Ring—Fast Idle Cam
	75	P-24253	Starter Switch and Adapter
	76	P-24254	Gasket—Starter Switch
	77	P-12419	Screw—Starter Switch Attach
	78	P-15346	Lockwasher—Starter Switch Attach Screw
	79	P-24255	Starter Switch Cover
	80	P-24714	Automatic Choke Housing
	81	P-23297	Gasket—Automatic Choke Housing
	82	P-23918	Screw—Automatic Choke Housing Attach
	83	P-23919	Vacuum Piston with Link and Lever
	84	P-23933	Washer—Thermostat Lever Adj
	85	P-15875	Lockwasher—Vac Piston and Link Attach Nut
	86	P-16571	Nut—Vac Piston and Link Attach
	87	P-23927	Screen—Strainer
	88	P-24542	Thermostat Cover and Thermostat
	89	P-23932	Washer—Thermostat Cover Attach Screw
	90	P-2866	Screw—Thermostat Cover Attach
	91	P-9674	Attaching Stud
	92	P-23596	Heat Tube Nut
	93	P-24273	Heat Tube
	94	P-24267	Gas Line
	95	P-24223	Manifold Flange Spacer

BENDIX PRODUCTS DIVISION

SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

Printed in U. S. A.

STROMBERG "AAV-1" CARBURETOR

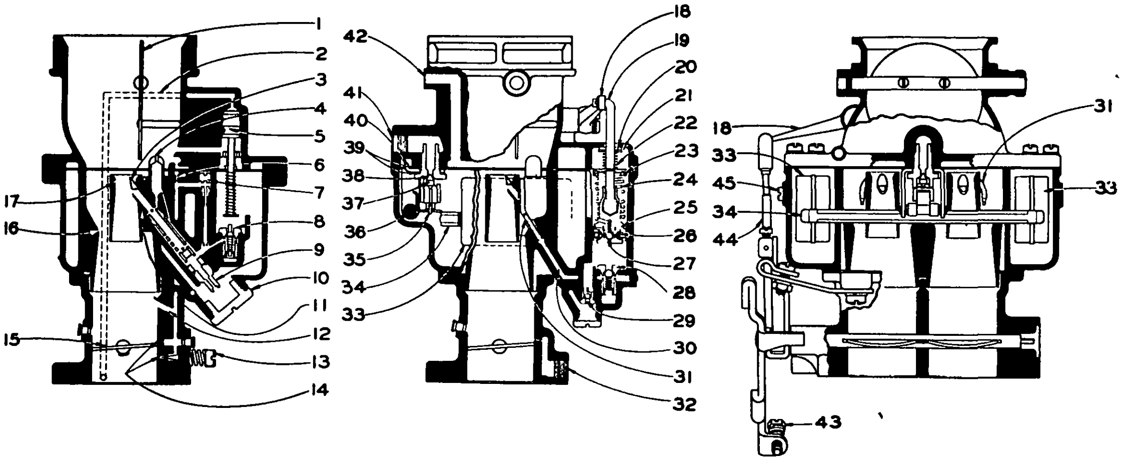
STROMBERG NO. A-18681 (CODE NO. 7-17) BUICK SYMBOL 1304646

HEAVY-DUTY AIR CLEANER STR. NO. A-18691 (CODE NO. 7-19) BUICK SYMBOL 1304647

SIZE: 1" DUAL D. D. 3-HOLE FLANGE **REPLACE WITH AAV-16 EQPT. J-5449**

1938
BUICK
MODEL
"SERIES 40"
3-3/32"x4⅛"—8 cyl.

PARTS ILLUSTRATED



1 Choke Valve
2 Vacuum Channel
3 Main Discharge Jet
4 High Speed Bleeder
5 Power Vacuum Piston
6 Idle Air Bleeder
7 Idle Tube
8 Power By-Pass Jet
9 Main Metering Jet
10 Main Disch Jet Plug
11 Main Disch Jet Gasket
12 Sec Idle Air Bleeder
13 Idle Needle Valve
14 Idle Discharge Holes
15 Throttle Valve
16 Primary Venturi
17 Auxiliary Venturi
18 Pump Fulcrum Arm
19 Pump Piston Link
20 Felt Dust Washer
21 Retainer Washer
22 Dust Washer Spring
23 Spring Retainer Washer
24 Pump Duration Spring
25 Pump Piston
26 Pump Expansion Spring
27 Pump Relief Valve
28 Pump By-Pass Jet
29 Pump Inlet Check Valve
30 Pump Discharge Channel
31 Pump Disch Nozzle
32 Vacuum Spark Conn
33 Float
34 Float Lever
35 Float Needle Valve Clip
36 Float Fulcrum Pin
37 Float Needle Valve
38 Float Needle Valve Seat
39 Float Hanger Gaskets
40 Float Hanger
41 Gasoline Connection
42 Float Chamber Vent
43 Throttle Stop Screw
44 Pump Rod
45 Fuel Level Sight Plug

Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **19/32"** below top surface of float chamber (without gasket) or **1/32"** above bottom of the level sight hole at 3 lbs. pressure. To correct fuel level, hold air horn in inverted position. Place **Tool T-24971** on gasket. Tops of floats should be **1/32"** below tops of vertical guides, which will give approximate fuel level; change if necessary Sides of floats should be tangent to guides of tool without drag.

MAIN METERING SYSTEM—Venturi **1-1/32"**: Main Discharge Jet **No. 28** P-23315 **(Tool T-24967)**use new P-22602 lead gasket assembled on upper shoulder of main discharge jet); High Speed Bleeder **No. 65** P-22369; Main Metering Jet **.048"** P-19442, **.046"** used with heavy-duty air cleaner **(Tool T-24924)**; **(Tool T-19099)** used to remove main jet plug. Main Metering System controls the flow of fuel up to approximately 65 to 70 M. P. H.

POWER SYSTEM—Power By-Pass Jet **No. 62** P-23361; **No. 66** P-23606 used with heavy-duty air cleaner; power jet to come into operation at **5"** to **6"** of manifold vacuum, which is approximately 65 to 70 M. P. H. **Tool T-24733** used to remove P-22803 Vacuum Power Piston.

ACCELERATION—Pump Discharge Nozzles **No. 65**; Pump By-Pass Jet **No. 63** P-23742. Pump capacity **9** to **12** c.c. per 10 fast strokes and **17** to **20** c.c. per 10 slow strokes (Middle adjustment). **(Tool T-24972)** Pump action takes place during acceleration period only

IDLE SYSTEM—Idle Discharge Holes **No. 54-60**; with throttle valve fully closed and **No. 60** drill in idle hole, edge of valve is located **.022"** + — **.004"** from **No. 60** drill, Idle Air Bleed **No. 70** (in main body) and **No. 32** (in throttle body); Idle Tube **No. 60** P-23325 **Adjustment:** Adjust to smooth running, one barrel at a time, OUT to make richer and IN to make leaner, throttle at 7 to 8 M P H.

VACUUM SPARK CONTROL—With throttle fully closed and **No. 58** drill in spark hole, edge of valve is located **.041"** + — **.004"** from **No. 58** drill.

FLANGE GASKET—P-20466.

SPECIAL TOOLS REQUIRED—Use Buick complete Tool Kit **SER. 373**; T-24971 Float Gauge; T-24967 Main Discharge Jet Remover; T-24924 Main Metering Jet Wrench, T-24970 By-Pass Jet and Check Valve Tester, T-24972 Pump Capacity Burrette Gauge; T-24968 Handle; T-24733 Power Piston Wrench; T-19099 Main Jet Plug Screw Driver.

MOTOR TUNE-UP DATA

SPARK PLUGS—.025".
Clean and adjust at regular intervals.

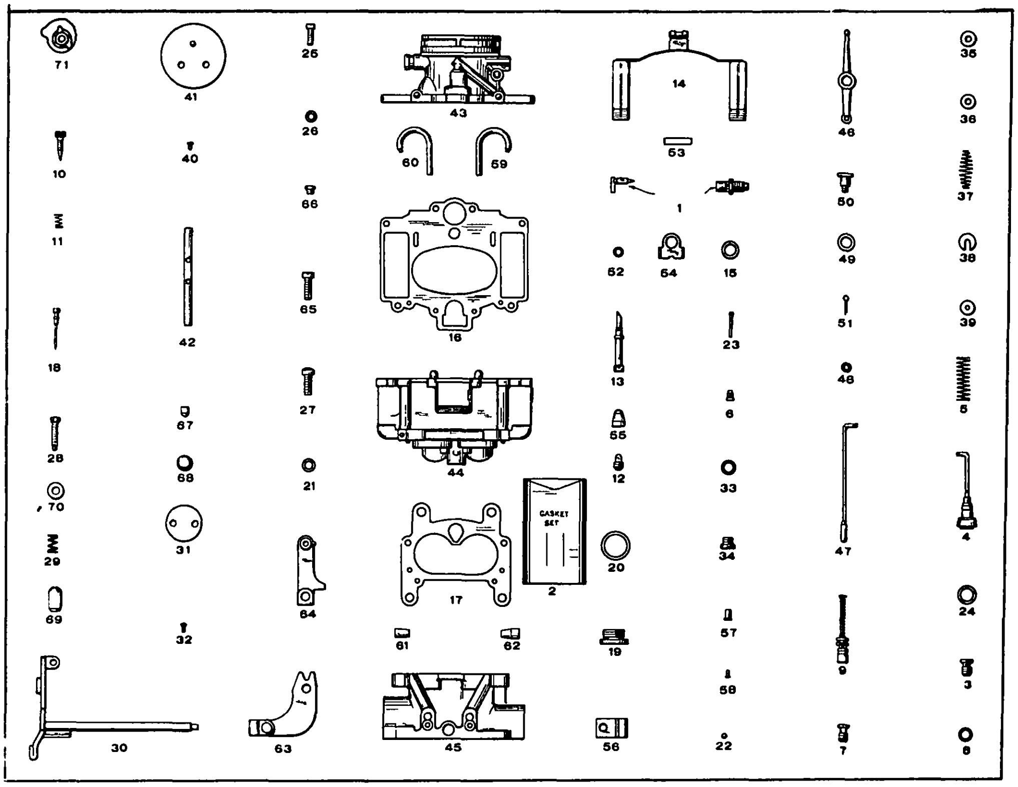
DISTRIBUTOR—.0125" to .0175".
Breaker gap set .0125" to .0175".
Replace if necessary.

VALVES—Intake: .015".
Exhaust: .015". **Engine hot.**

IGNITION TIMING—Breaker contacts to open for No. 1 cylinder when flywheel mark "ADV" is opposite index line on housing.

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No	Part No	Part Name	
	1	P 22499	Float Needle Valve Clip & Seat 101	(NOT VAR)
	2	J 5317 G	Complete Gasket Set	
	3	P 23742	Pump By Pass Jet No 63	(NOT VAR)
	4	P 23323	Pump Piston and Link **(Includes P 16960 Spring)**	
	4 A	P 23322	Pump Piston Link & Spring (Complete)	
	5	P 22870	Spring Pump Duration	
	6	P 18144	Pump Inlet Check Valve	
	7	P 23361	Power By Pass Jet No 62	(NOT VAR)
	Use	P 23606	Power By Pass Jet No 66 with Heavy Duty Air Cleaner	(NOT VAR)
	8	P 19448	Gasket—Power and Pump By Pass Jet	
	9	P 22803	Vacuum Power Piston	
	10	P 15478	Idle Needle Valve	
	11	P 18710	Spring Idle Needle Valve	
	12	P 19442	Metering Jet **048**	(VAR)
	Use	P 19442	**046** Metering Jet with Heavy Duty Air Cleaner	(VAR)
	13	P 23315	Main Disch Jet No 28	(NOT VAR)
	14	P 22433	Float with Lever	
	15	P 2885	Gasket Float Needle Valve Seat	
	16	P 22451	Gasket Air Horn	
	17	P 22522	Gasket– Main Body	
	18	P 23325	Idle Tube	
	19	P 21767	Plug Main Disch Jet	
	20	P 22851	Gasket Main Disch Jet Plug	
	21	P 3157	Lockwasher—Main Body Attach Screw	
	22	P 18772	Lead Ball	
	23	P 22439	Pin —Fulcrum Float Lever	
	24	P 16960	Spring—Pump Piston Leather Expansion	
	25	P 2475	Screw Air Horn Attach	
	26	P 6668	Lockwasher Air Horn Attach Screw	
	27	P 709	Screw Main Body Attaching	
	28	P 19103	Screw—Throttle Stop	
	29	P 15831	Spring —Throttle Stop Screw	
	30	P 23332	Throttle Lever and Stem	
	31	P 23782	Throttle Valve (5°)	(NOT VAR)
	32	P 20904	Screw– Throttle Valve Attach	
	33	P 7338	Gasket—Check Valve Plug	
	34	P 19716	Plug Check Valve	
	35	P 17380	Washer—Felt	
	36	P 17060	Washer Splash Pump Link	
	37	P 22643	Spring—Felt Retainer	
	38	P 22045	Washer Cup	
	39	P 22046	Washer —Spring Retainer	
	40	P 4522	Screw —Choke Valve Attach	
	41	P 20607	Choke Valve	
	42	P 22449	Choke Stem	
	43	P 23329	Air Horn	
	43 A	P 23328	Assy —Air Horn and Valve	
	44	P 23318	Assy —Main Body **1 1/32"** Venturi **No. 65** H S Bleeder **No 65** Pump Disch Tube and **No 70** Idle Air Bleed	(VAR)
	45	P 23341	Assy —Throttle Body **No 54 60** Idle Discharge Holes **No 32**– Idle Air Bleed—**No 58** Spark Hole	(VAR)
		P 23327	Idle Air Bleeder	
	46	P 23735	Pump Lever	
	47	P 22620	Pump Rod	
	48	P 9394	Washer—Pump Rod	
	49	P 19820	Spring Washer –Pump Lever Fulcrum Screw	
	50	P 20611	Screw—Fulcrum—Pump Lever	
	51	P 7170	Cotter Pin —Pump Rod and Pump Link	
	52	P 22602	Gasket—Lead—Main Disch Jet	
	53	P 22523	Clip– Float Needle Valve	
	54	P 22441	Float Hanger	
	55	P 23858	Strainer Pump Check Valve	
	56	P 23508	Clip Spring	
	57	P 15459	Plug—Idle Disch ¼	
	58	P 15458	Plug—Idle Disch No 10	
	59	P 23245	Tube—Pump Disch (Right)	
	60	P 23246	Tube —Pump Disch (Left)	
	61	P 19430	Wedge –Pump Disch Tube	
	62	P 23748	Reducer—H S Bleeder Channel	
	63	P 23338	Assy—Thro Loose Lever Tube Holder	
		P 23339	Tube Holder	
		P 2229	Tube Clamp Screw	
		P 15875	Tube Clamp Screw Lockwasher	
		P 2290	Tube Clamp Screw Nut	
	64	P 23335	Loose Lever with Wire Connector and Screw	
		P 506	Wire Conn Screw	
	65	P 13041	Screw—Main Body Attach	
	66	P 6406	Plug—Fuel Level Sight	
	67	P 22474	Bearing—Choke Stem	
	68	P 8495	Plug—Expansion	
	69	P 22369	High Speed Bleeder **No 65**	(VAR)
	70	P 17679	Washer—Throttle Stop Screw Spring	
	71	P 22426	Assy – Therm Fast Idle	

NOTE—For parts marked (VAR) size must be specified when ordering

BENDIX PRODUCTS DIVISION
SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

STROMBERG "AAV-2" CARBURETOR

STROMBERG NO. A-18682 (CODE NO. 7-18) BUICK SYMBOL 1304648

HEAVY-DUTY AIR CLEANER STR. NO. A-18692 (CODE NO. 7-20) BUICK SYMBOL 1304649

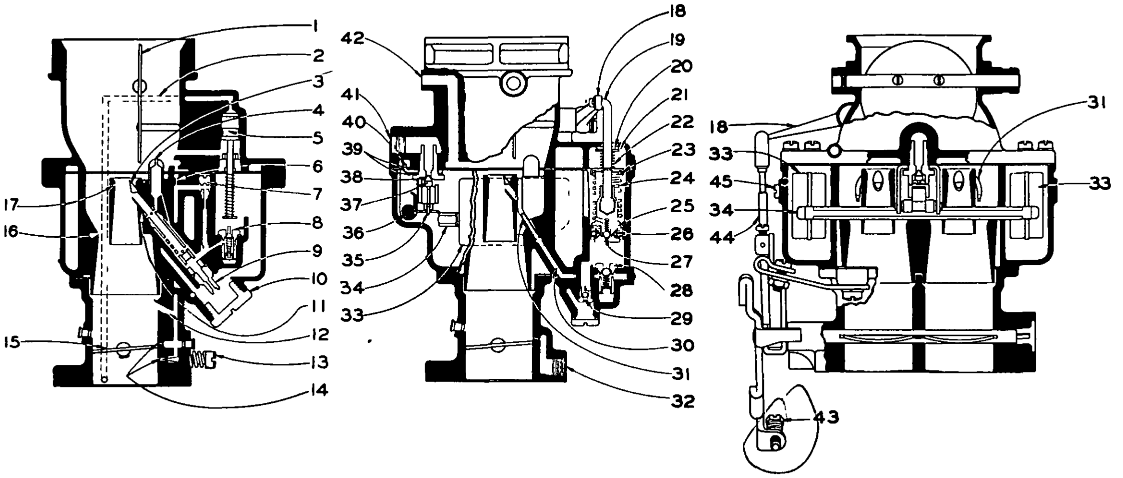
SIZE: 1¼" DUAL D. D. 4-HOLE FLANGE **REPLACE WITH AAV-26 EQPT. J-5451**

1938
BUICK

MODELS
60, 80, 90
3-7/16"x4-5/16"—8 cyl.

PARTS ILLUSTRATED

1	Choke Valve
2	Vacuum Channel
3	Main Discharge Jet
4	High Speed Bleeder
5	Power Vacuum Piston
6	Idle Air Bleeder
7	Idle Tube
8	Power By-Pass Jet
9	Main Metering Jet
10	Main Disch Jet Plug
11	Main Disch Jet Gasket
12	Sec Idle Air Bleeder
13	Idle Needle Valve
14	Idle Discharge Holes
15	Throttle Valve
16	Primary Venturi
17	Auxiliary Venturi
18	Pump Fulcrum Arm
19	Pump Piston Link
20	Felt Dust Washer
21.	Retainer Washer
22	Dust Washer Spring
23	Spring Retainer Washer
24	Pump Duration Spring
25	Pump Piston
26	Pump Expansion Spring
27	Pump Relief Valve
28	Pump By-Pass Jet
29	Pump Inlet Check Valve
30	Pump Discharge Channel
31	Pump Disch Nozzle
32	Vacuum Spark Conn
33	Float
34	Float Lever
35	Float Needle Valve Clip
36	Float Fulcrum Pin
37	Float Needle Valve
38	Float Needle Valve Seat
39	Float Hanger Gaskets
40	Float Hanger
41	Gasoline Connection
42	Float Chamber Vent
43	Throttle Stop Screw
44	Pump Rod
45	Fuel Level Sight Plug



Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **19/32"** below top surface of float chamber (without gasket) or **1/32"** above bottom of the level sight hole at 3 lbs. pressure. To correct fuel level, hold air horn in inverted position. Place **Tool T-24971** on gasket. Tops of floats should be **1/32"** below tops of vertical guides, which will give approximate fuel level; change if necessary. Sides of floats should be tangent to guides of tool without drag.

MAIN METERING SYSTEM—Venturi **1⅛"**; Main Discharge Jet **No. 28** P-23315 **(Tool T-24967)** use new P-22602 lead gasket assembled on upper shoulder of main discharge jet; High Speed Bleeder **No. 65** P-22369; Main Metering Jet **.052"** P-19442, **.050"** used with heavy-duty air cleaner **(Tool T-24924)**; **(Tool T-19099)** used to remove main jet plug. Main Metering system controls the flow of fuel up to approximately 70 to 75 M. P. H.

POWER SYSTEM—Power By-Pass Jet **No. 57** P-23348; Power Jet to come into operation at **5"** to **6"** of manifold vacuum, which is approximately 70 to 75 M. P. H. **(Tool T-24733** used to remove P-22803 vacuum power piston.)

ACCELERATION—Pump Discharge Nozzles **No. 65**; Pump By-Pass Jet **No. 63** P-23742; Pump capacity **15** to **18** c.c. per 10 fast strokes and **21** to **24** c.c. per 10 slow strokes (Middle adjustment); **(Tool T-24972)** Pump action takes place during acceleration period only.

IDLE SYSTEM—Idle Discharge holes **No. 54-60**; with throttle valve fully closed and **No. 60** drill in idle hole, edge of valve is located **.022"** + — **.004"** from **No. 60** drill; Idle Air Bleed **No. 70** (in main body) and **No. 32** (in throttle body); Idle tube **No. 60** P-23325; **Adjustment:** Adjust to smooth running one barrel at a time, OUT to make richer and IN to make leaner; throttle at 7 to 8 M. P. H.

VACUUM SPARK CONTROL—With throttle fully closed and **No. 58** drill in spark hole, edge of valve is located **.055"** + — **.004"** from **No. 58** drill.

FLANGE GASKET—P-18165.

SPECIAL TOOLS REQUIRED—Use Buick complete Tool Kit **SER. 373**; T-24971 Float Gauge; T-24967 Main Discharge Jet Remover; T-24924 Main Metering Jet Wrench; T-24970 By-Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burrette Gauge; T-24968 Handle; T-24733 Power Piston Wrench; T-19099 Main Jet Plug Screw Driver.

MOTOR TUNE-UP DATA

SPARK PLUG—.025".
Clean and adjust at regular intervals.

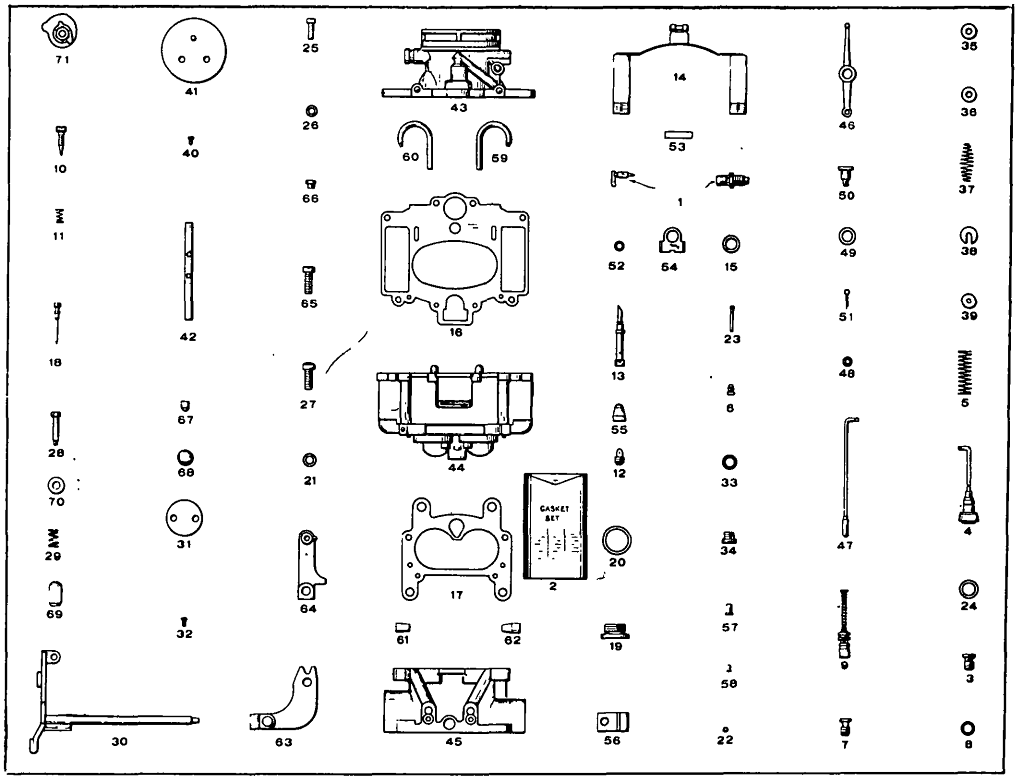
DISTRIBUTOR—.0125" to .0175".
Breaker gap set .0125" to .0175".
Replace if necessary.

VALVES—Intake: .015".
Exhaust: .015". **Engine hot.**

IGNITION TIMING—Breaker contacts to open for No. 1 cylinder when flywheel mark "ADV" is opposite index line on housing.

SERVICE RECOMMENDATION — Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No.	Part No.	Part Name
	1	P-22499	Float Needle Valve, Clip & Seat .101" **(NOT VAR.)**
	2	J-5321-G	Complete Gasket Set
	3	P-23742	Pump By-Pass Jet No. 63 **(NOT VAR.)**
	4	P-23350	Pump Piston and Link **(Includes P-21568 Spring)**
	4-A	P-23349	Pump Piston Link and Spring (Complete)
	5	P-19526	Spring—Pump Duration
	6	P-18144	Pump Inlet Check Valve
	7	P-23348	Power By-Pass Jet No. 57 **(NOT VAR.)**
	8	P-19448	Gasket—Power and Pump By-Pass Jet
	9	P-22803	Vacuum Power Piston
	10	P-15478	Idle Needle Valve
	11	P-18710	Spring—Idle Needle Valve
	12	P-19442	Metering Jet **.052"** **(VAR.)**
		Use P-19442	**.050"** Metering Jet with Heavy-Duty Air Cleaner **(VAR.)**
	13	P-23315	Main Disch. Jet No. 28 **(NOT VAR.)**
	14	P-22438	Float with Lever
	15	P-2885	Gasket—Float Needle Valve Seat
	16	P-22451	Gasket—Air Horn
	17	P-22427	Gasket—Main Body
	18	P-23325	Idle Tube
	19	P-21767	Plug—Main Disch. Jet
	20	P-22851	Gasket—Main Disch. Jet Plug
	21	P-3157	Lockwasher—Main Body Attach. Screw
	22	P-18772	Lead Ball
	23	P-22439	Pin—Fulcrum —Float Lever
	24	P-21568	Spring—Pump Piston Leather Expansion
	25	P-2475	Screw—Air Horn Attaching
	26	P-6668	Lockwasher—Air Horn Attach. Screw
	27	P-709	Screw—Main Body Attaching
	28	P-19103	Screw—Throttle Stop
	29	P-15831	Spring—Throttle Stop Screw
	30	P-23353	Throttle Lever and Stem
	31	P-22447	Throttle Valve (5°) **(NOT VAR.)**
	32	P-16716	Screw—Throttle Valve Attach.
	33	P-7338	Gasket—Check Valve Plug
	34	P-19716	Plug—Check Valve
	35	P-17380	Washer—Felt
	36	P-17060	Washer—Splash—Pump Link
	37	P-22643	Spring—Packing Retainer

NOTE—For parts marked (VAR.) size must be specified when ordering.

Bin Location	Key No.	Part No.	Part Name
	38	P-22045	Washer—Cup
	39	P-22046	Washer—Spring Retainer
	40	P-4522	Screw—Choke Valve Attach.
	41	P-20607	Choke Valve
	42	P-22449	Choke Stem
	43	P-23329	Air Horn
	43-A	P-23328	Assy.—Air Horn and Valve
	44	P-23342	Assy.—Main Body 1⅛" Venturi **No. 65** H. S. Bleeder **No. 65**—Pump Disch. Tubes **(VAR.)**
	45	P-23360	Assy.—Throttle Body **No. 54-60** Idle Disch. Holes **No. 32** Idle Air Bleed, **No. 58** Spark Hole **(VAR.)**
		P-23327	Idle Air Bleeder No. 32 **(NOT VAR.)**
	46	P-23735	Pump Lever
	47	P-22620	Pump Rod
	48	P-9394	Washer—Pump Rod
	49	P-19820	Spring Washer—Pump Lever Fulcrum Screw
	50	P-20611	Screw—Fulcrum—Pump Lever
	51	P-7170	Cotter Pin—Pump Rod and Pump Link
	52	P-22602	Gasket—Lead—Main Disch. Jet
	53	P-22523	Clip—Float Needle Valve
	54	P-22441	Float Hanger
	55	P-23858	Strainer—Pump Check Valve
	56	P-23508	Clip—Spring
	57	P-15459	Plug—Idle Disch. Hole ¼"
	58	P-15458	Plug—Idle Disch. No. 10
	59	P-23245	Tube—Pump Disch. (Right)
	60	P-23246	Tube—Pump Disch. (Left)
	61	P-19430	Wedge—Pump Disch. Tube
	62	P-23748	Reducer—H. S. Bleeder Channel
	63	P-23338	Assy.—Thro. Loose Lever Tube Holder
		P-23339	Tube Holder
		P-2229	Tube Clamp Screw
		P-15875	Tube Clamp Screw Lockwasher
		P-2290	Tube Lockwasher Screw Nut
	64	P-23433	Loose Lever with Wire Connector and Screw
		P-506	Wire Connector Screw
	65	P-13041	Screw—Main Body Attach. (Long)
	66	P-6406	Plug—Fuel Level Sight
	67	P-22474	Bearing—Choke Stems
	68	P-8495	Plug—Expansion
	69	P-22369	High Speed Bleeder **No. 65** **(VAR.)**
	71	P-22426	Therm. Fast Idle

BENDIX PRODUCTS DIVISION
SOUTH BEND **OF BENDIX AVIATION CORPORATION** **INDIANA**

STROMBERG "AA-2" CARBURETOR

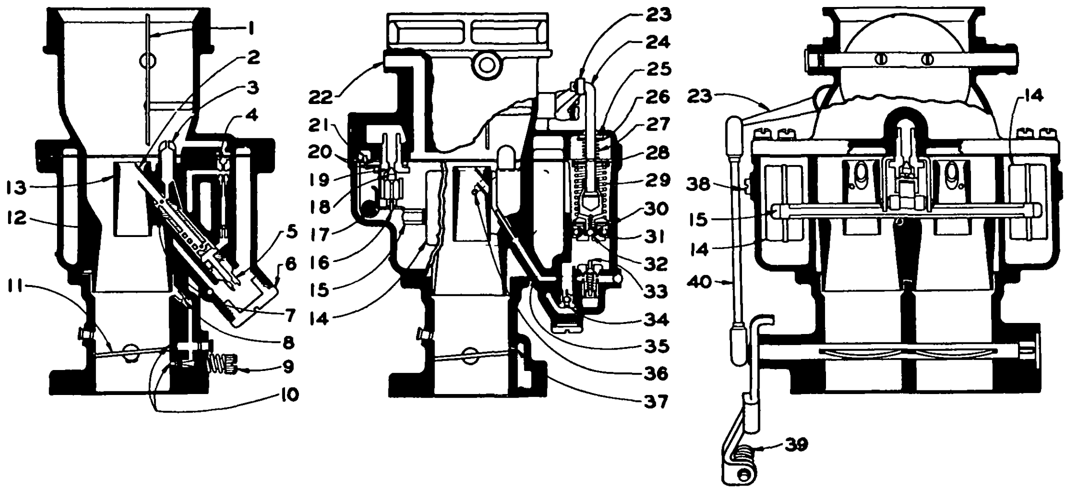
STROMBERG NO A 18362 (CODE NO 7 13) BUICK SYMBOL 1298607

HEAVY DUTY AIR GLEANER STR NO A 18452 (CODE NO 7 15) BUICK SMBOL 1299484

SIZE 1¼ DUAL D D 4 HOLE FLANGE   REPLACE WITH AAV 2 EQPT # 5564

1937
BUICK
MODELS
60, 80, 90
3-7/16"x4-5/16"—8 cyl.

PARTS ILLUSTRATED



1 Choke Valve
2 Main Discharge Jet
3 High Speed Bleeder
4 Idle Tube
5 Main Metering Jet
6 Main Discharge Jet Plug
7 Main Discharge Jet Gasket
8 Idle Air Bleeder
9 Idle Needle Valve
10 Idle Discharge Holes
11 Throttle Valve
12 Primary Venturi
13 Auxiliary Venturi
14 Float
15 Float Lever
16 Float Needle Valve Clip
17 Float Fulcrum Pin
18 Float Needle Valve
19 Float Needle Valve Seat
20 Float Hanger Gaskets
21 Float Hanger
22 Float Chamber Vent
23 Pump Fulcrum Arm
24 Pump Piston Link
25 Felt Dust Washer
26 Retainer Washer
27 Dust Washer Spring
28 Spring Retainer Washer
29 Pump Duration Spring
30 Pump Piston
31 Pump Expansion Spring
32 Pump Relief Valve
33 Power By Pass Jet
34 Pump Inlet Check Valve
35 Pump Discharge Channel
36 Pump Discharge Nozzle
37 Spark Control Hole
38 Fuel Level Sight Plug
39 Throttle Stop Screw
40 Pump Rod

Note—Specifications below are for latest production, previous major changes listed on Parts Pag .

FUEL LEVEL—Measure **5/8"** below top surface of float chamber (without gasket) or level with bottom of the level sight hole To correct fuel level hold air horn in inverted position Place **Tool T-24971** on gasket Tops of floats should be flush with tops of vertical guides which will give approximate fuel level change if necessary Sides of floats should be tangent to guides of tool without drag

MAIN METERING SYSTEM—Venturi **1-3/16"**; Main Discharge Jet **No. 28-32** P 22428 **(Tool T-24967** use new P 22602 lead gasket assembled on upper shoulder of main discharge jet) High Speed Bleeder **No. 64** (P 22369) Main Metering Jet **.052"** P 22660 **.051"** used with heavy duty air cleaner **(Tool T-24924)**; **(Tool T-19099)** used with Main Jet Plug Main Metering System controls the flow of fuel up to approximately 70 to 75 M P H

POWER SYSTEM—Combination Power and Pump By Pass Jet **No. 63** P 19447 Pump piston to rest on seat of by pass jet (less over travel) with throttle valve opened **13/64" + — 1/64"** (measure with shank end of **13/64"** drill) adjust by bending pump fulcrum arm at ball joint end The Power Jet is brought into action at approximately 70 to 75 M P H

ACCELERATION—Pump Discharge Nozzles **No. 65**; Pump capacity **13** to **17** c c per 10 fast strokes and **28** to **32** c c per 10 slow strokes (Maximum setting) **(Tool T-24972).** Pump action takes place during acceleration period only

IDLE SYSTEM—Idle Discharge Holes **No. 56-56**; with throttle valve fully closed and **No. 56** drill in idle hole edge of valve is located **.022" + — .004"** from **No. 56** drill Idle Air Bleed **No. 54** (In throttle body) and **No. 70** (in idle tube) Idle Tube **No. 55** P 22807 **Adjustment:** Adjust to smooth running one barrel at a time OUT to make richer and IN to make leaner Throttle at 7 to 8 M P H

VACUUM SPARK CONTROL—With throttle fully closed and **No. 64** drill in spark hole edge of valve is located **.085" + — .004"** from **No. 64** drill

FLANGE GASKET—P 18165

SPECIAL TOOLS REQUIRED—Use Buick complete Tool Kit **SER. 373**; T-24971 Float Gauge T 24967 Main Discharge Jet Remover T 24924 Main Metering Jet Wrench T 24970 By Pass Jet and Check Valve Tester T 24972 Pump Capacity Burrette Gauge, T 24968 Handle T 19099 Main Jet Plug Screw Driver

MOTOR TUNE-UP DATA

SPARK PLUGS—.025".
Clean and adjust at regular intervals.

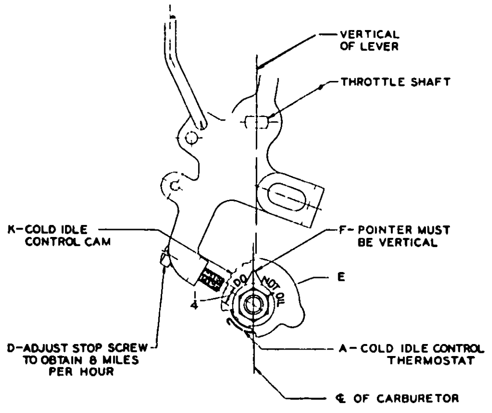
DISTRIBUTOR—.0125" to .0175".
Breaker gap s t .0125" to .0175".
Replace if necessary.

VALVES—Intak : .015";
Exhaust: .015". **Engine hot.**

IGNITION TIMING—Breaker contacts to open for No. 1 cylinder when flywheel mark "ADV" is opposite index line on housing.

SERVICE RECOMMENDATION — Check heat control valv to s e that it is free during its entire travel and that th rmostat is properly positioned.

COLD IDLE CONTROL


VERTICAL OF LEVER
THROTTLE SHAFT
K-COLD IDLE CONTROL CAM
F-POINTER MUST BE VERTICAL
E
DO NOT OIL
1/4
D-ADJUST STOP SCREW TO OBTAIN 8 MILES PER HOUR
A-COLD IDLE CONTROL THERMOSTAT
℄ OF CARBURETOR

Cold Idle Control.

The cold idle control consists of a thermostatically operated cam K mounted on intake manifold heat jacket This cam serves as a stop for throttle stop screw "D'

The function of the cold idle control is to provide a fast idle speed during the warming up period of the engine This speed increases or decreases as the temperature of the riser changes

The variable speed is obtained by using a thermostat A which drives the cam K When the riser is cold the thermostat ' A' rotates the cam 'K" in a clockwise direction causing its thick side to contact with the idle stop screw ' D' which speeds up the engine

As the riser warms up the thermostat is heated and thus revolves the cam ' K" in a counter clockwise direction until idle screw D is contacting with the cam ' K at its thinnest section causing carburetor throttle to close to a normal hot idle speed

ADJUSTMENT

The cold idle control is adjusted and set in the correct position at the factory and with ordinary care should not need any further adjustment This setting can be checked as follows

Loosen nut "E' and rotate cam hub in direction necessary to place the pointer "F' directly above nut E' This adjustment may be made regardless of heat riser temperature

A momentary opening of the throttle is necessary to allow cam K to adjust itself for any temperature position This is because the spring "A' is not capable of rotating cam "K' while the idle adjusting screw is contacting the cam

Warm up the engine Throttle stop screw "D" should now contact the cam ' K" on its thin portion and within the ¼" limit adjoining the first raised section of the cam If the throttle stop screw does not contact within the limit shown the cam hub with pointer attached may be rotated slightly in order to bring the ¼" section under the idle screw If it is necessary to rotate the pointer more than 5° from its former vertical position a complete new cam assembly should be installed

AUTOMATIC CHOKE

The automatic choke control is attached to the inner side of the carburetor with the lower end of the thermostat housing contacting the exhaust manifold A flexible control shaft connects the choke valve stem to the shaft of the automatic choke When the carburetor is removed the automatic choke being attached it is removed as a complete unit The automatic choke can be detached from the carburetor by disconnecting the rubber choke control shaft cover at upper end Pull choke control shaft out of slot in choke valve and remove two screws holding choke to carburetor body When reassembling the choke control to the carburetor the flexible control shaft must not be kinked or twisted When this shaft is held in straightened position the driving notches at each end of the shaft should be in line Ends of shaft should extend into thermostat shaft and choke valve stem full extent of travel Assemble lower end of control shaft and control cover before attaching upper ends With cold choke it will be found advantageous to hold carburetor throttle in wide open position while attaching control shaft to choke valve stem

VOLATILITY SELECTOR

A volatility selector is provided for changing the initial choke setting It is used only when necessary to overcome starting or warm up difficulties due to fuels outside the normal volatility range The selector is set at the factory for normal fuels with the selector pointer set in second notch adjacent to "low" setting To compensate for highly volatile fuels advance the pointer toward 'high by turning selector adjustment nut turning adjusting nut toward high for leaner setting and toward low for richer setting

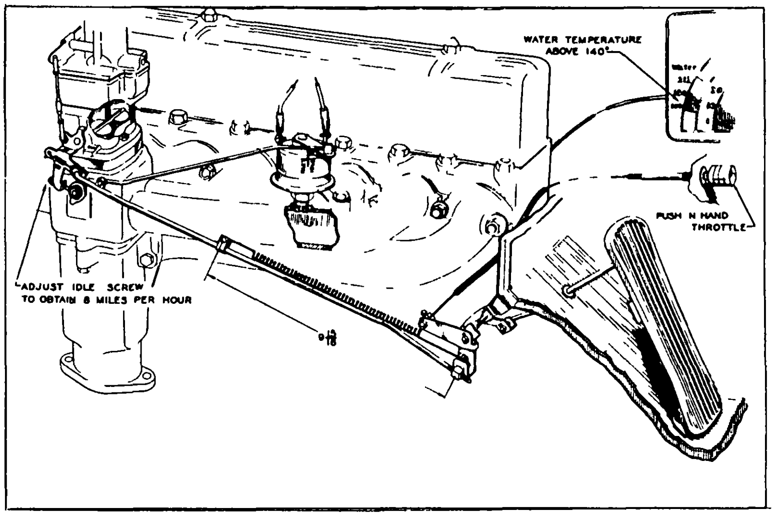
If the automatic choke control requires service it should only be handled by United Motors Service Branches and their authorized stations

ENGINE IDLE ADJUSTMENT

If it is desired to start the engine with control linkage disconnected first return the accelerator switch lever to the cold idle position to engage the switch clutch then move lever until contact is made The throttle should be partly open during this operation

Warm up engine until water temperature indicator on instrument panel shows 140°

Check and if necessary adjust engine idle to speed of 8 m p h The idle speed is regulated by turning the IDLE SCREW In making this adjustment it will be observed that the COLD IDLE CONTROL CAM will be in the approximate position shown which is the warm idle position and that the hand throttle is pushed in as far as it will go


WATER TEMPERATURE ABOVE 140°
PUSH N HAND THROTTLE
ADJUST IDLE SCREW TO OBTAIN 8 MILES PER HOUR
$9\frac{15}{16}$

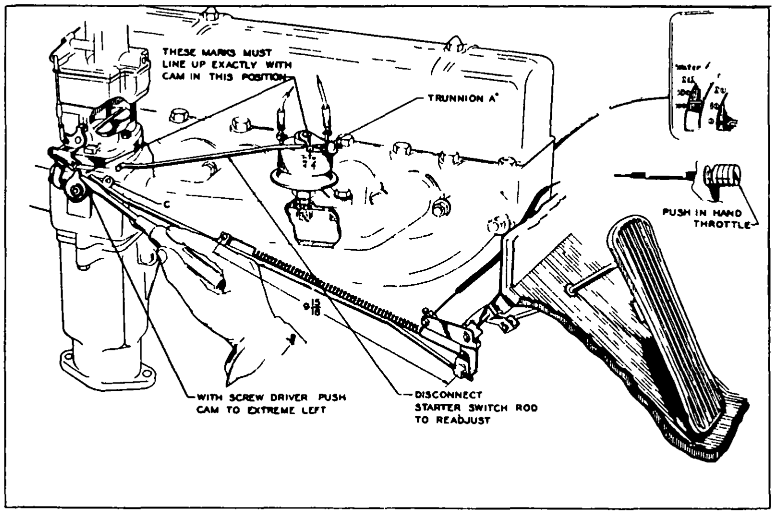
Engine Idle Adjustment

SWITCH ADJUSTMENT

(Model 1607) All Series.

Rotate COLD IDLE CONTROL CAM by hand until it strikes top This is the fast or cold idle position Leave the cam in this position until the switch has been adjusted

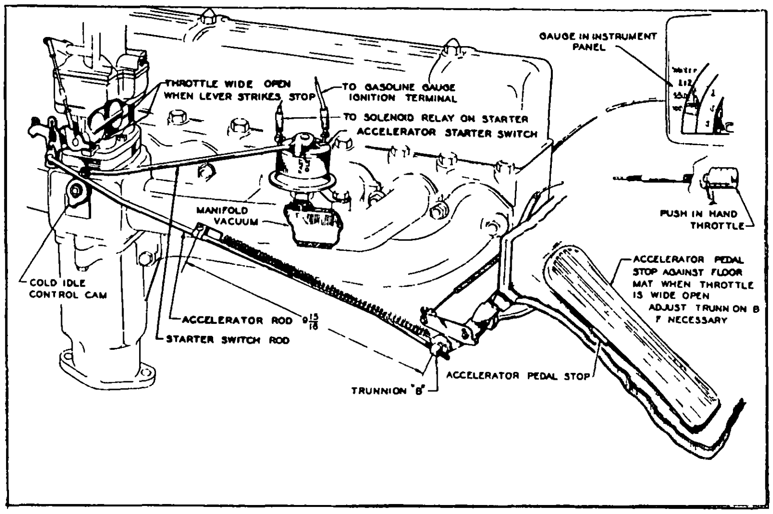
Disconnect switch operating rod at (C) and turn rod until line on switch lever comes exactly opposite FAST IDLE LINE on switch back when rod is directly opposite hole Check alignment of marks after replacing rod as **this adjustment must be accurate.**


THESE MARKS MUST LINE UP EXACTLY WITH CAM IN THIS POSITION
TRUNNION A
C
PUSH IN HAND THROTTLE
$9\frac{15}{16}$
WITH SCREW DRIVER PUSH CAM TO EXTREME LEFT
DISCONNECT STARTER SWITCH ROD TO READJUST

Accelerator Switch Adjustment

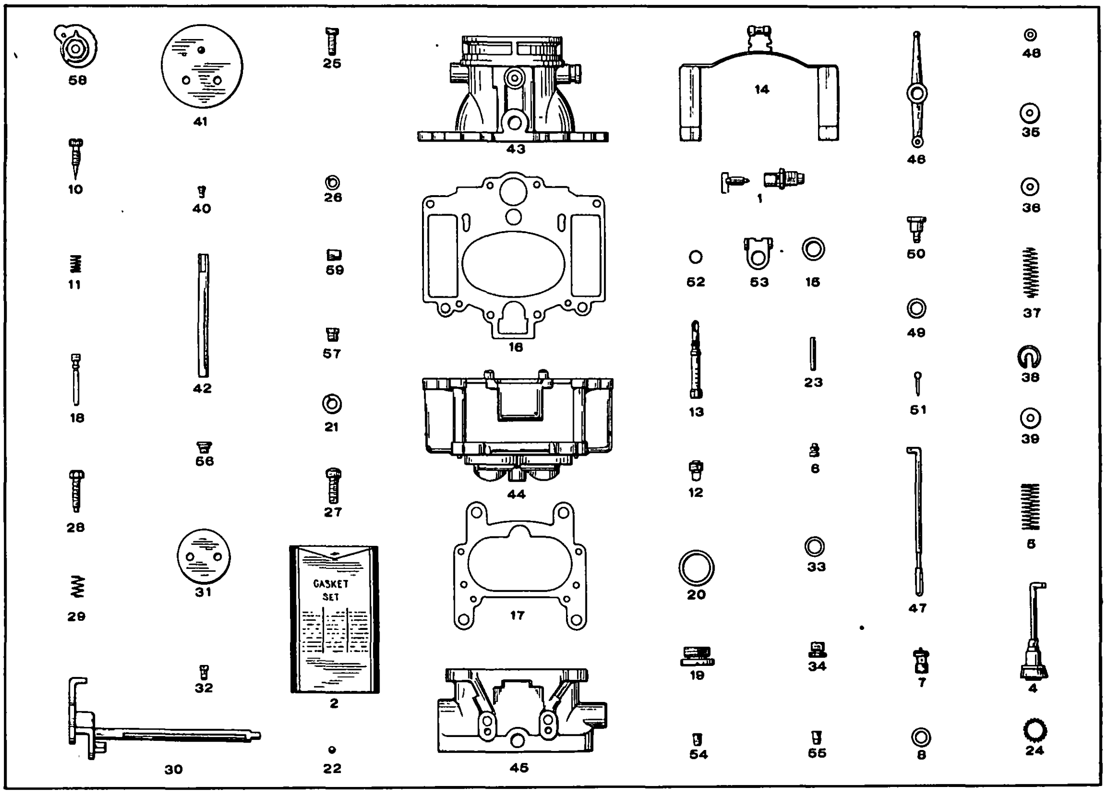
ACCELERATOR PEDAL ADJUSTMENT

After the engine idle has been adjusted the accelerator pedal angle should also be checked This is done by depressing the pedal until the stop strikes the floor mat then setting adjustment trunnion B on the rod connecting to the accelerator until the throttle is wide open


GAUGE IN INSTRUMENT PANEL
THROTTLE WIDE OPEN WHEN LEVER STRIKES STOP
TO GASOLINE GAUGE IGNITION TERMINAL
TO SOLENOID RELAY ON STARTER
ACCELERATOR STARTER SWITCH
MANIFOLD VACUUM
PUSH IN HAND THROTTLE
ACCELERATOR PEDAL STOP AGAINST FLOOR MAT WHEN THROTTLE IS WIDE OPEN ADJUST TRUNNION B IF NECESSARY
COLD IDLE CONTROL CAM
ACCELERATOR ROD $9\frac{15}{16}$
STARTER SWITCH ROD
ACCELERATOR PEDAL STOP
TRUNNION "B"

Accelerator Pedal Adjustment

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No.	Part No.	Part Name
	1	**P-22499**	Float Needle Valve, Clip & Seat .101" **(NOT VAR.)**
		P-22523	Float Needle Valve Clip
	2	**J-4782-G**	Complete Gasket Set
	4	**P-22452**	Pump Piston and Link **(Includes P-21568 Spring)**
	4-A	**P-22429**	Pump Piston Link & Spring (Complete)
	5	**P-19526**	Spring—Pump Duration
	6	**P-18144**	Pump Inlet Check Valve
	7	**P-19447**	Power By-Pass Jet No. 63 **(NOT VAR.)**
	8	**P-19448**	Gasket—By-Pass Jet
	10	**P-15478**	Idle Needle Valve
	11	**P-18710**	Spring—Idle Needle Valve
	12	**P-22660**	Metering Jet **.052"** **(VAR.)**
		P-22660	Use **.051"** Metering Jet with Heavy-Duty Air Cleaner **(VAR.)**
	13	**P-22428**	Main Discharge Jet No. 28-32 **(NOT VAR.)**
	14	**P-22433**	Float with Lever
	15	**P-2885**	Gasket—Float Needle Valve Seat
	16	**P-22451**	Gasket—Air Horn
	17	**P-22427**	Gasket Main Body
	18	**P-22807**	Idle Tube
	19	**P-21767**	Plug—Main Disch. Jet
	20	**P-22851**	Gasket—Main Discharge Jet Plug
	21	**P-3157**	Lockwasher—Main Body Attaching Screw
	22	**P-18772**	Lead Ball
	23	**P-22439**	Pin—Fulcrum—Float Lever
	24	**P-21568**	Spring—Pump Piston Leather Expansion
	25	**P-2475**	Screw—Air Horn Attaching
	26	**P-6668**	Lockwasher—Air Horn Attach. Screw
	27	**P-709**	Screw—Main Body Attaching
	28	**P-19103**	Screw—Throttle Stop
	29	**P-15831**	Spring—Throttle Stop Screw
	30	**P-22443**	Throttle Lever and Stem
	31	**P-22447**	Throttle Valve (5°) **(NOT VAR.)**
	32	**P-16716**	Screw—Throttle Valve Attach.
	33	**P-7338**	Gasket—Check Valve Plug
	34	**P-19716**	Plug—Check Valve
	35	**P-17380**	Washer—Felt
	36	**P-17060**	Washer—Splash—Pump Link
	37	**P-22643**	Spring—Felt Retainer
	38	**P-22045**	Washer—Cup
	39	**P-22046**	Washer—Spring Retainer
	40	**P-4522**	Screw—Choke Valve Attach.
	41	**P-20607**	Choke Valve
	42	**P-22449**	Choke Stem
	43	**P-22472**	Air Horn
	43-A	**P-22450**	Assy.—Air Horn and Valve
	44	**P-22442**	Assy.—Main Body—**1-3/16"** Venturi **No. 64** High Speed Bleeder & **No. 65** Pump Disch. Tubes **(VAR.)**
		P-22369	High Speed Bleeder **No. 64** **(VAR.)**
		P-8495	Expansion Plug
		P-21561	Pump Disch. Tube
		P-19430	Pump Tube Wedge
	45	**P-22848**	Assy.—Throttle Body **No. 56-56** Idle Disch. Holes **No. 64** Spark Hole & **No. 54** Idle Air Bleed **(VAR.)**
	46	**P-22430**	Pump Lever
	47	**P-22620**	Pump Rod
	48	**P-9394**	Washer—Pump Rod
	49	**P-19820**	Spring Washer—Pump Lever Fulcrum Screw
	50	**P-20611**	Screw—Fulcrum—Pump Lever
	51	**P-7170**	Cotter Pin Pump Rod and Pump Link
	52	**P-22602**	Gasket—Lead—Main Disch. Jet
	53	**P-22441**	Float Hanger
	54	**P-15458**	Plug—Idle Disch. No. 10
	55	**P-15459**	Plug—Idle Discharge
	56	**P-22476**	Bushing—Choke Stem
	57	**P-6406**	Plug—Fuel Level Sight
	58	**P-22426**	Thermostat—Fast Idle
	59	**P-20470**	Air Reducer No. 54 Throttle Body **(NOT VAR.)**

NOTE—For parts marked (VAR.) size must be specified when ordering.

BENDIX PRODUCTS DIVISION
SOUTH BEND **OF BENDIX AVIATION CORPORATION** **INDIANA**

STROMBERG "AA-1" CARBURETOR

STROMBERG NO. A-18361 (CODE NO. 7-12) BUICK SYMBOL 1298605

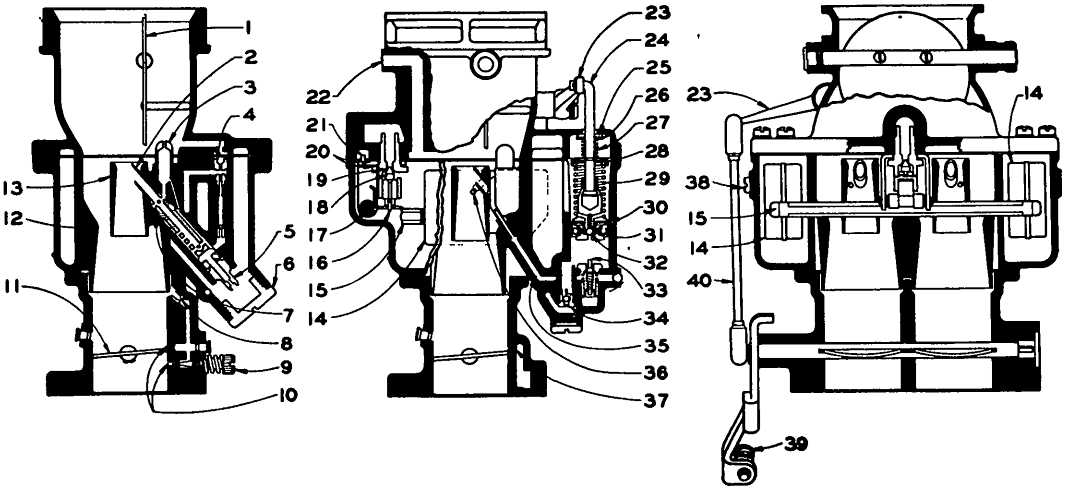
HEAVY-DUTY AIR CLEANER STR. NO. A-18451 (CODE NO. 7-14) BUICK SYMBOL 1299483

SIZE: 1" DUAL D. D. 3-HOLE FLANGE

REPLACE WITH AAV-1 EQPT. J-5563

1937
BUICK
MODEL
"SERIES 40"
3-3/32" x 4⅛"—8 cyl.

PARTS ILLUSTRATED



1 Choke Valve
2 Main Discharge Jet
3 High Speed Bleeder
4 Idle Tube
5 Main Metering Jet
6 Main Discharge Jet Plug
7 Main Discharge Jet Gasket
8 Idle Air Bleeder
9 Idle Needle Valve
10 Idle Discharge Holes
11 Throttle Valve
12 Primary Venturi
13 Auxiliary Venturi
14 Float
15 Float Lever
16 Float Needle Valve Clip
17 Float Fulcrum Pin
18 Float Needle Valve
19 Float Needle Valve Seat
20 Float Hanger Gaskets
21 Float Hanger
22 Float Chamber Vent
23 Pump Fulcrum Arm
24 Pump Piston Link
25 Felt Dust Washer
26 Retainer Washer
27 Dust Washer Spring
28 Spring Retainer Washer
29. Pump Duration Spring
30 Pump Piston
31. Pump Expansion Spring
32 Pump Relief Valve
33 Power By-Pass Jet
34 Pump Inlet Check Valve
35 Pump Discharge Channel
36 Pump Discharge Nozzle
37 Spark Control Hole
38 Fuel Level Sight Plug
39. Throttle Stop Screw
40 Pump Rod

Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **5/8"** below top surface of float chamber (without gasket) or level with bottom of the level sight hole. To correct fuel level, hold air horn in inverted position. Place **Tool T-24971** on gasket. Tops of floats should be flush with tops of vertical guides, which will give approximate fuel level; change if necessary. Sides of floats should be tangent to guides of tool without drag.

MAIN METERING SYSTEM—Venturi **1-1/32"**; Main Discharge Jet **No. 28-36** P-22661 **(Tool T-24967** use new P-22602 lead gasket assembled on upper shoulder of Main Discharge Jet); High Speed Bleeder **No. 70** P-22369; Main Metering Jet **.049"** P-22660, **.045"** used with heavy-duty air cleaner **(Tool T-24924)**; **(Tool T-19099)** used to remove Main Jet Plug; Main Metering system controls the flow of fuel up to approximately 65 to 70 M. P. H.

POWER SYSTEM—Combination Power and Pump By-Pass Jet **No. 66** P-20623; Pump piston to rest on by-pass jet (less over-travel) with throttle valve opened **9/32"** + — **1/64"** (measure with shank end of **9/32"** drill) adjust by bending pump fulcrum arm at ball joint end. The Power Jet is brought into action at approximately 65 to 70 M. P. H.

ACCELERATION—Pump Discharge Nozzles **No. 65**; Pump capacity **10** to **14** c.c. per 10 fast strokes and **22** to **28** c.c. per 10 slow strokes. (Maximum pump setting) **(Tool T-24972)** Pump action takes place during acceleration period only.

IDLE SYSTEM—Idle Discharge holes **No. 56-60**; with throttle valve fully closed and **No. 60** drill in idle hole, edge of valve is located **.022"** + — **.004"** from **No. 60** Drill; Idle Air Bleed **No. 58** (in throttle body) and **No. 70** in Idle Tube. Idle Tube **No. 55** P-22431. **Adjustment:** Adjust to smooth running one barrel at a time, OUT to make richer and IN to make leaner. Throttle at 7 to 8 M. P. H.

VACUUM SPARK CONTROL—With throttle fully closed and **No. 58** drill in spark hole, edge of valve is located **.041"** + — **.004"** from **No. 58** drill.

FLANGE GASKET—P-20466.

SPECIAL TOOLS REQUIRED—Use Buick complete Tool Kit **SER. 373**; T-24971 Float Gauge; T-24967 Main Discharge Jet Remover; T-24924 Main Metering Jet Wrench; T-24970 By-Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burrette Gauge; T-24968 Handle; T-19099 Main Jet Plug Screw Driver.

MOTOR TUNE-UP DATA

SPARK PLUG—.025".
Clean and adjust at regular intervals.

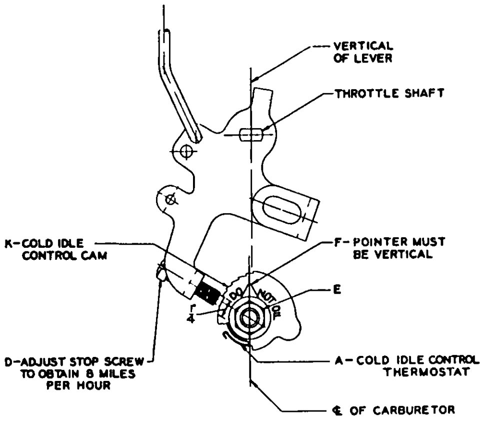
DISTRIBUTOR—.0125" to .0175".
Breaker gap set .0125" to .0175".
Replace if necessary.

VALVES—Intake: .015".
Exhaust: .015". Engine hot.

IGNITION TIMING—Breaker contacts to open for No. 1 cyl. when flywheel mark "ADV" is opposite index line on housing.

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

COLD IDLE CONTROL


VERTICAL OF LEVER
THROTTLE SHAFT
K-COLD IDLE CONTROL CAM
F-POINTER MUST BE VERTICAL
E
D-ADJUST STOP SCREW TO OBTAIN 8 MILES PER HOUR
A-COLD IDLE CONTROL THERMOSTAT
℄ OF CARBURETOR

Cold Idle Control.

The cold idle control consists of a thermostatically operated cam 'K mounted on intake manifold heat jacket This cam serves as a stop for throttle stop screw "D"

The function of the cold idle control is to provide a fast idle speed during the warming up period of the engine This speed increases or decreases as the temperature of the riser changes

The variable speed is obtained by using a thermostat 'A' which drives the cam K When the riser is cold the thermostat "A" rotates the cam "K" in a clockwise direction causing its thick side to contact with the idle stop screw "D' which speeds up the engine

As the riser warms up the thermostat is heated and thus revolves the cam "K" in a counter clockwise direction until idle screw 'D" is contacting with the cam "K' at its thinnest section causing carburetor throttle to close to a normal hot idle speed

ADJUSTMENT

The cold idle control is adjusted and set in the correct position at the factory and with ordinary care should not need any further adjustment This setting can be checked as follows

Loosen nut "E' and rotate cam hub in direction necessary to place the pointer 'F" directly above nut "E" This adjustment may be made regardless of heat riser temperature

A momentary opening of the throttle is necessary to allow cam K to adjust itself for any temperature position This is because the spring A is not capable of rotating cam "K" while the idle adjusting screw is contacting the cam

Warm up the engine Throttle stop screw "D" should now contact the cam 'K" on its thin portion and within the ¼" limit adjoining the first raised section of the cam If the throttle stop screw does not contact within the limit shown, the cam hub with pointer attached may be rotated slightly in order to bring the ¼" section under the idle screw If it is necessary to rotate the pointer more than 5° from its former vertical position, a complete new cam assembly should be installed

AUTOMATIC CHOKE

The automatic choke control is attached to the inner side of the carburetor with the lower end of the thermostat housing contacting the exhaust manifold A flexible control shaft connects the choke valve stem to the shaft of the automatic choke When the carburetor is removed the automatic choke being attached it is removed as a complete unit The automatic choke can be detached from the carburetor by disconnecting the rubber choke control shaft cover at upper end Pull choke control shaft out of slot in choke valve and remove two screws holding choke to carburetor body When reassembling the choke control to the carburetor the flexible control shaft must not be kinked or twisted When this shaft is held in straightened position the driving notches at each end of the shaft should be in line Ends of shaft should extend into thermostat shaft and choke valve stem full extent of travel Assemble lower end of control shaft and control cover before attaching upper ends With cold choke it will be found advantageous to hold carburetor throttle in wide open position while attaching control shaft to choke valve stem

VOLATILITY SELECTOR

A volatility selector is provided for changing the initial choke setting It is used only when necessary to overcome starting or warm up difficulties due to fuels outside the normal volatility range The selector is set at the factory for normal fuels with the selector pointer set in second notch adjacent to "low" setting To compensate for highly volatile fuels advance the pointer toward "high' by turning selector adjustment nut turning adjusting nut toward high for leaner setting and toward low for richer setting

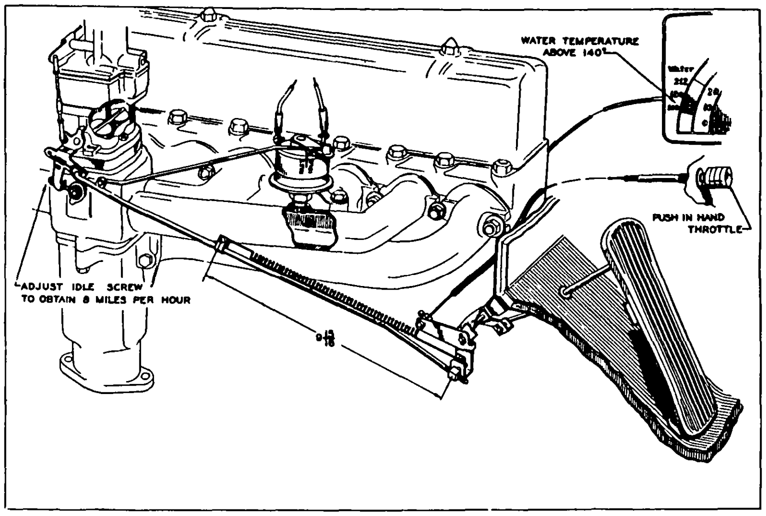
If the automatic choke control requires service it should only be handled by United Motors Service Branches and their authorized stations

ENGINE IDLE ADJUSTMENT

If it is desired to start the engine with control linkage disconnected first return the accelerator switch lever to the cold idle position to engage the switch clutch then move lever until contact is made The throttle should be partly open during this operation

Warm up engine until water temperature indicator on instrument panel shows 140°

Check and if necessary, adjust engine idle to speed of 8 m p h The idle speed is regulated by turning the IDLE SCREW In making this adjustment it will be observed that the COLD IDLE CONTROL CAM will be in the approximate position shown, which is the warm idle position and that the hand throttle is pushed in as far as it will go


WATER TEMPERATURE ABOVE 140°
Water
212
PUSH IN HAND THROTTLE
ADJUST IDLE SCREW TO OBTAIN 8 MILES PER HOUR
9 15/16

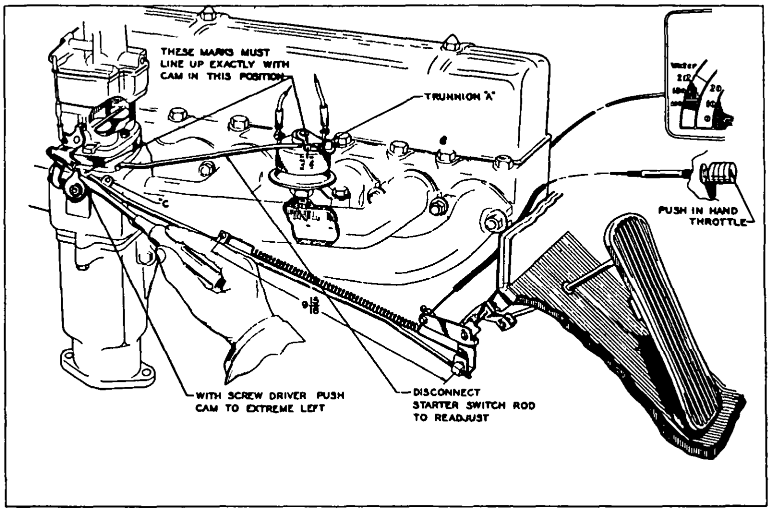
Engine Idle Adjustment

SWITCH ADJUSTMENT

(Model 1607) All Series.

Rotate COLD IDLE CONTROL CAM by hand until it strikes top This is the fast or cold idle position Leave the cam in this position until the switch has been adjusted

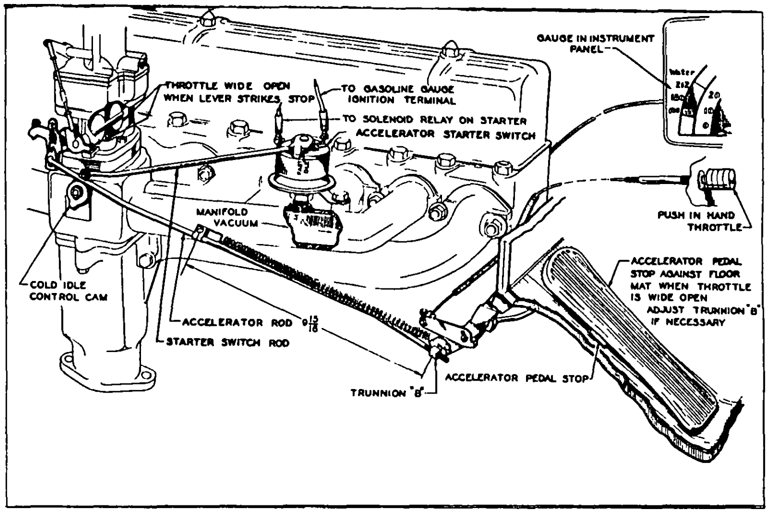
Disconnect switch operating rod at (C) and turn rod until line on switch lever comes exactly opposite FAST IDLE LINE on switch back when rod is directly opposite hole Check alignment of marks after replacing rod as **this adjustment must be accurate.**


THESE MARKS MUST LINE UP EXACTLY WITH CAM IN THIS POSITION
TRUNNION 'A'
Water
212
C
PUSH IN HAND THROTTLE
9 15/16
WITH SCREW DRIVER PUSH CAM TO EXTREME LEFT
DISCONNECT STARTER SWITCH ROD TO READJUST

Accelerator Switch Adjustment

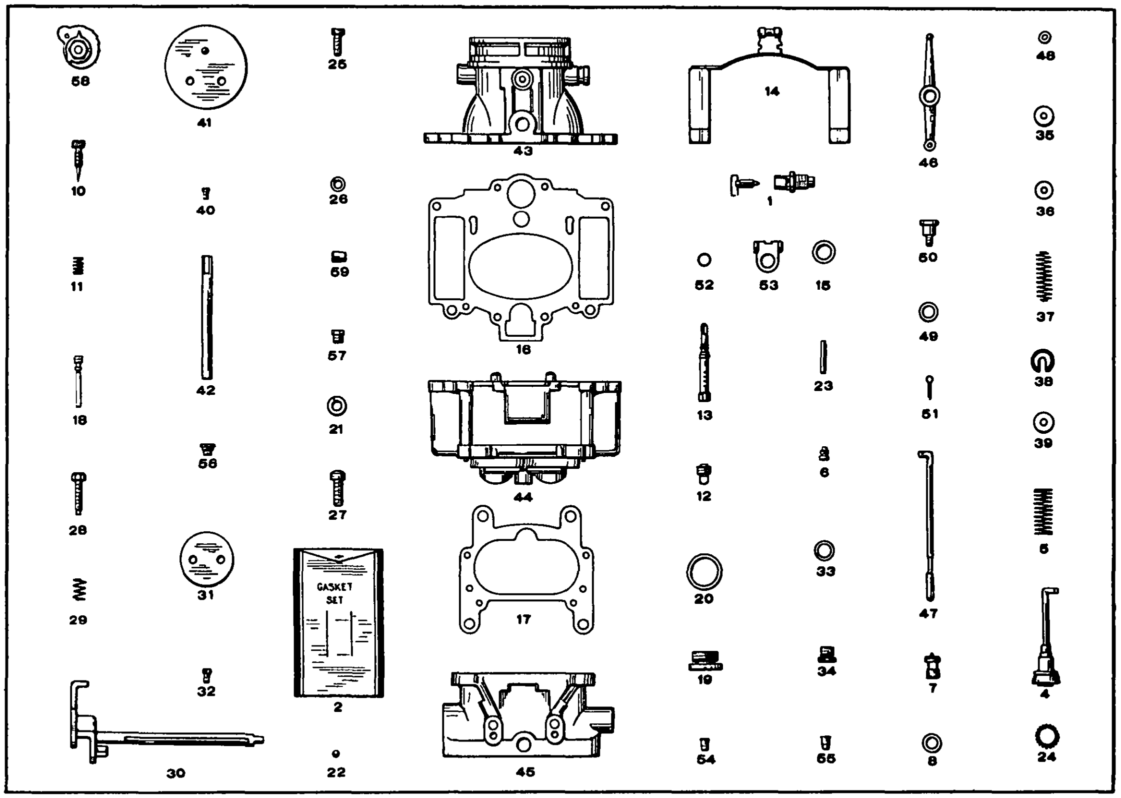
ACCELERATOR PEDAL ADJUSTMENT

After the engine idle has been adjusted the accelerator pedal angle should also be checked This is done by depressing the pedal until the stop strikes the floor mat then setting adjustment trunnion B on the rod connecting to the accelerator until the throttle is wide open


GAUGE IN INSTRUMENT PANEL
THROTTLE WIDE OPEN WHEN LEVER STRIKES STOP
TO GASOLINE GAUGE IGNITION TERMINAL
TO SOLENOID RELAY ON STARTER
ACCELERATOR STARTER SWITCH
Water
212
MANIFOLD VACUUM
PUSH IN HAND THROTTLE
ACCELERATOR PEDAL STOP AGAINST FLOOR MAT WHEN THROTTLE IS WIDE OPEN ADJUST TRUNNION 'B' IF NECESSARY
COLD IDLE CONTROL CAM
ACCELERATOR ROD
9 15/16
STARTER SWITCH ROD
ACCELERATOR PEDAL STOP
TRUNNION 'B'

Accelerator Pedal Adjustment

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No	Part No	Part Name
	1	P 22498	Float Needle Valve Clip & Seat 093 **(NOT VAR)**
		P 22523	Float Needle Valve Clip
	2	J-4781 G	Complete Gasket Set
	4	P 20440	Pump Piston and Link **(Includes P 16960 Spring)**
	4 A	P 22871	Pump Piston Link & Spring (Complete)
	5	P 22870	Spring—Pump Duration
	6	P 18144	Pump Inlet Check Valve
	7	P 20623	Power By Pass Jet No 66 **(NOT VAR)**
		Use P 21020	Power By Pass Jet No 70 with Heavy Duty Air Cleaner **(NOT VAR)**
	8	P 19448	Gasket—By Pass Jet
	10	P 15478	Idle Needle Valve
	11	P 18710	Spring Idle Needle Valve
	12	P 22660	Metering Jet **049"** **(VAR)**
		Use P 22660	**045"** Metering Jet with Heavy Duty Air Cleaner **(VAR)**
	13	P 22661	Main Discharge Jet No 28 36 **(NOT VAR)**
	14	P 22433	Float with Lever
	15	P 2885	Gasket Float Needle Valve Seat
	16	P 22451	Gasket—Air Horn
	17	P 22522	Gasket—Main Body
	18	P 22431	Idle Tube
	19	P 21767	Plug Main Discharge Jet
	20	P 22851	Gasket Main Discharge Jet Plug
	21	P 3157	Lockwasher Main Body Attach Screw
	22	P 18772	Lead Ball
	23	P 22439	Pin Fulcrum Float Lever
	24	P 16960	Spring Pump Piston Leather Expansion
	25	P 2475	Screw Air Horn Attaching
	26	P 6668	Lockwasher—Air Horn Attach Screw
	27	P 709	Screw Main Body—Attaching
	28	P 19103	Screw Throttle Stop
	29	P 15831	Spring—Throttle Stop Screw
	30	P 22459	Throttle Lever and Stem
	31	P 20874	Throttle Valve (5°) **(NOT VAR)**
	32	P 20904	Screw—Throttle Valve Attach
	33	P 7338	Gasket—Check Valve Plug
	34	P 19716	Plug—Check Valve
	35	P 17380	Washer—Felt
	36	P 17060	Washer Splash—Pump Link
	37	P 22643	Spring—Felt Retainer
	38	P 22045	Washer—Cup
	39	P 22046	Washer—Spring Retainer
	40	P 4522	Screw—Choke Valve Attach
	41	P 20607	Choke Valve and Pin
	42	P 22449	Choke Stem
	43	P 22472	Air Horn
	43 A	P 22450	Assy—Air Horn and Valve
	44	P 22461	Assy Main Body **1 1/32"** Venturi **No 70** H S Bleeder and **No 65** Pump Disch Tubes **(VAR)**
		P 22369	High Speed Bleeder **No 70** **(VAR)**
		P 22508	Pump Disch Tube (Right)
		P 22509	Pump Disch Tube (Left)
		P 19430	Pump Tube Wedge
		P 8495	Expansion Plug
	45	P 22847	Assy—Throt Body **No 56 60** Idle Disch Hole **No 58** Spark Hole & **No 58** Idle Air Bleed **(VAR)**
	46	P 22430	Pump Lever
	47	P 22620	Pump Rod
	48	P 9394	Washer—Pump Rod
	49	P 19820	Spring Washer—Pump Lever Fulcrum Screw
	50	P 20611	Screw—Fulcrum—Pump Lever
	51	P 7170	Cotter Pin Pump Rod and Pump Link
	52	P 22602	Gasket Lead Main Disch Jet
	53	P 22441	Float Hanger
	54	P 15458	Plug Idle Discharge No 10
	55	P 15459	Plug Idle Disch Hole
	56	P 22474	Bushing—Choke Stem
	57	P 6406	Plug Fuel Level Sight
	58	P 22426	Thermostat—Fast Idle
	59	P 21543	Air Reducer No 58 Throt Body **(NOT VAR)**

NOTE—For parts marked (VAR) size must be specified when ordering

BENDIX PRODUCTS DIVISION

SOUTH BEND **OF BENDIX AVIATION CORPORATION** **INDIANA**

STROMBERG "EE-22" CARBURETOR

STROMBERG NO. A-18302 (CODE NO. 7-10) BUICK SYMBOL 1295805

HEAVY-DUTY AIR CLEANER STR. NO. A-18312 (CODE 7-11) BUICK SYMBOL 1295806

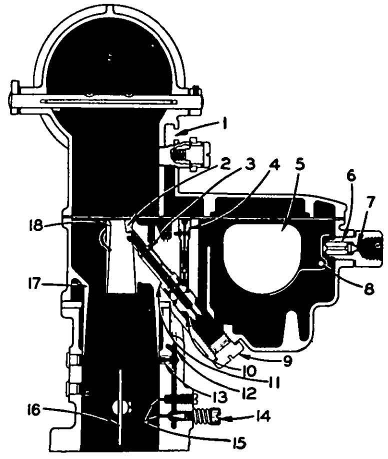
SIZE: 1¼" DUAL D. D. 4-HOLE FLANGE.

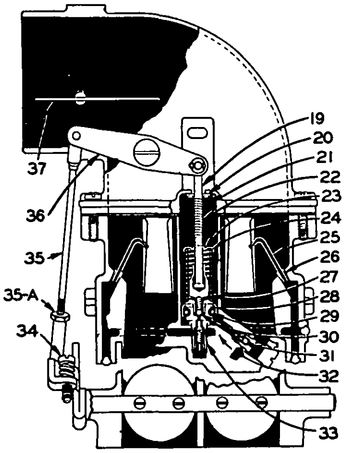
1936
BUICK

MODELS
60, 80, 90
3-7/16"x4-5/16"—8 cyl.

PARTS ILLUSTRATED

1. Float Chamber Vent
2. Main Discharge Jet
3. High Speed Bleeder
4. Idle Tube
5. Float
6. Float Needle Valve
7. Float Needle Valve Seat
8. Float Fulcrum Pin
9. Main Discharge Jet Plug
10. Main Metering Jet
11. Main Discharge Jet Gasket
12. Idle Channel
13. Idle Air Bleeder
14. Idle Needle Valve
15. Idle Discharge Holes
16. Throttle Valve
17. Primary Venturi
18. Auxiliary Venturi
19. Pump Piston Link
20. Felt Dust Washer
21. Retainer Washer
22. Dust Washer Spring
23. Spring Retainer Lock
24. Spring Retainer Washer
25. Pump Discharge Nozzle
26. Pump Discharge Nozzle Holder
27. Pump Duration Spring
28. Pump Piston
29. Piston Expansion Spring
30. Pump Relief Valve
31. Pump Inlet Check Valve
32. Pump Discharge Channel
33. Power By-Pass Jet
34. Throttle Stop Screw
35. Pump Rod
35A. Pump Rod Lock Nut
36. Pump Arm
37. Choke Valve





Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **21/32"** below top surface of float chamber (without gasket) at 3 lbs. pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level.)

MAIN METERING SYSTEM—Venturi **1-3/16"**; Main Discharge Jet **No. 28** P-21682 **(Tool T-24967).** Use new P-20630 lead gasket assembled on lower shoulder of main discharge jet. High Speed Bleeder **No. 70** (in body); Main Metering Jet **.052"** P-17004 **.051"** used with Triplex H. D. Air Cleaner **(Tool T-23844)**; **(Tool T-19099)** used to remove main jet plug; Main Metering System controls the flow of fuel up to approximately 70 to 75 M. P. H.

POWER SYSTEM—Combination Power and Pump By-Pass Jet **No. 65** P-20467; Pump piston to rest on seat of by-pass jet (less over-travel) with throttle valve opened **15/64"** + — **1/64"** (measure with shank end of **15/64"** drill) adjust by bending pump rod. The Power Jet is brought into action at approximately 70 to 75 M. P. H.

ACCELERATION—Pump Discharge Nozzles **No. 65** (in body); Pump capacity **10** to **14** c.c. per 10 fast strokes and **18** to **22** c.c. per 10 slow strokes. **(Tool T-24972).** Pump action takes place during acceleration period only.

IDLE SYSTEM—Idle Discharge Holes **No. 56-60**; with throttle valve fully closed and **No. 60** drill in idle hole, edge of valve is located **.030"** + — **.004"** from **No. 60** drill; Idle Air Bleed **No. 58** P-21543 in throttle body and **No. 70** in idle tube; Idle Tube **No. 60** P-21557. **Adjustment**: Adjust to smooth running, one barrel at a time, OUT to make richer and IN to make leaner. Throttle at 7 to 8 M. P. H.

VACUUM SPARK CONTROL—With throttle fully closed and **No. 64** drill in spark hole, edge of valve is located **.085"** + — **.006"** from **No. 64** drill.

FLANGE GASKET—P-18165.

SPECIAL TOOLS REQUIRED—Use Buick complete Tool Kit **SER. 373**; T-24733 Float Adjuster; T-24967 Main Discharge Jet Remover; T-23844 Main Metering Jet Wrench; T-24970 By-Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burrette Gauge; T-24968 Handle; T-19099 Main Jet Plug Screw Driver.

MOTOR TUNE-UP DATA

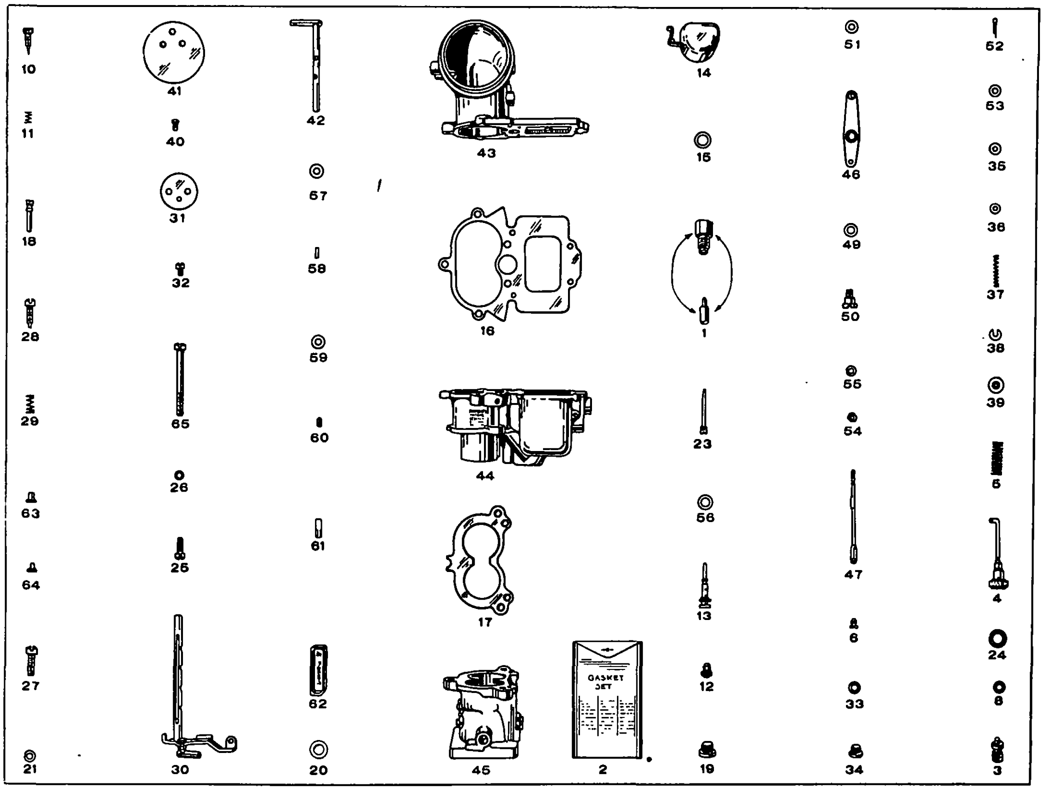
SPARK PLUGS—.025".
Clean and adjust at regular intervals.

DISTRIBUTOR—.0125" to .0175".
Breaker gap set .0125" to .0175".
Replace if necessary.

VALVES—Intake: .015".
Exhaust: .015". **Engine hot.**

IGNITION TIMING—Breaker contacts to open for No. 1 cylinder when flywheel mark "ADV" is opposite index line on housing.

SERVICE RECOMMENDATION — Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No.	Part No.	Part Name
	1	P-21651	Float Needle Valve & Seat—.101"....**(NOT VAR.)**
	2	J-4600-G	Complete Gasket Set
	3	P-20467	Power By-Pass Jet No. 65 **(NOT VAR.)**
	4	P-21554	Pump Piston & Link ......**(Includes P-21568 Spring)**
	4-A	P-21553	Pump Piston & Link & Spring (Complete)
	5	P-21569	Spring—Pump Duration
	6	P-18144	Check Valve—Pump Inlet
	8	P-19448	Gasket—By-Pass Jet
	10	P-15478	Idle Needle Valve
	11	P-18710	Spring—Idle Needle Valve
	12	P-17004	Metering Jet **.052"** **(VAR.)**
		Use P-17004	**.051"** Metering Jet—With Triplex Air Cleaner **(VAR.)**
	13	P-21682	Main Disch. Jet No. 28 **(NOT VAR.)**
	14	P-21551	Float with Lever
	15	P-10666	Gasket—Float Needle Valve Seat
	16	P-21570	Gasket—Air Horn
	17	P-16941	Gasket—Main Body
	18	P-21557	Idle Tube No. 60 **(NOT VAR.)**
	19	P-21558	Plug—Main Disch. Jet
	20	P-60308	Gasket—Main Disch. Jet Plug
	21	P-3157	Lockwasher—Main Body Attach. Screw
	23	P-17939	Screw—Fulcrum—Float Lever
	24	P-21568	Spring—Pump Piston Leather Expansion
	25	P-2475	Screw—Air Horn Attach.
	26	P-6668	Lockwasher—Air Horn Attach. Screw
	27	P-15554	Screw—Main Body Attach.
	28	P-20424	Screw—Throttle Stop
	29	P-15831	Spring—Throttle Stop Screw
	30	P-21945	Throttle Lever and Stem
		P-21541	Ball Joint
		P-16571	Ball Joint Lock Nut
		P-1791	Ball Joint Lock Nut Lockwasher
	31	P-17018	Throttle Valve (5°) **(NOT VAR.)**
	32	P-16716	Screw—Throttle Valve Attach.
	33	P-7338	Gasket—Check Valve Plug
	34	P-19716	Plug—Check Valve
	35	P-17380	Washer—Felt
	36	P-17060	Washer—Splash—Pump Link
	37	P-17947	Spring—Packing Retainer
	38	P-22045	Washer—Horseshoe
	39	P-22046	Washer—Spring Retainer
	40	P-4522	Screw—Choke Valve Attach.
	41	P-21538	Choke Valve
	42	P-21535	Choke Stem and Lever
	43	P-21534-T	Air Horn
	43-A	P-21533	Assy.—Air Horn and Valve
	44	P-21560	Main Body **1-3/16"** Venturi **No. 70** H. S. Bleeder and **No. 65** Pump Disch. Tube **(VAR.)**
		P-21561	Pump Disch. Tube No. 65 **(NOT VAR.)**
		P-19430	Pump Disch. Tube Wedge
	45	P-21521	Assy.—Throttle Body **No. 56-60** Idle Discharge Holes and **No. 64** Spark Hole **No. 58** **(VAR.)**
	46	P-21733	Pump Lever
		P-19509	Ball Connector
	47	P-21948	Pump Rod
	49	P-19820	Washer—Pump Fulcrum Screw Spring
	50	P-19433	Screw—Pump Lever Fulcrum
	51	P-21547	Washer—Pump Lever Fulcrum Screw
	52	P-7170	Cotter Pin—Pump Lever
	53	P-9394	Washer—Pump Lever and Link
	54	P-19587	Nut—Pump Rod Adj.
	55	P-1693	Lockwasher—Pump Rod Adj. Nut
	56	P-20630	Gasket—Main Disch. Jet Lead
	57	P-12400	Washer—Choke Stem
	58	P-3881	Pin—Choke Stem
	59	P-17081	Collar—Choke Stem
	60	P-16161	Set Screw—Choke Stem Collar
	61	P-16764	Pin—Choke Valve Stop
	62	P-21510-T	Cup—Baffle—Float Chamber
	63	P-15459	Plug—Idle Disch. Hole—¼"
	64	P-15458	Plug—Idle Disch.
	65	P-18111	Screw—Air Horn Attach.

NOTE—For parts marked (VAR.) size must be specified when ordering.

BENDIX PRODUCTS DIVISION
SOUTH BEND **OF BENDIX AVIATION CORPORATION** **INDIANA**

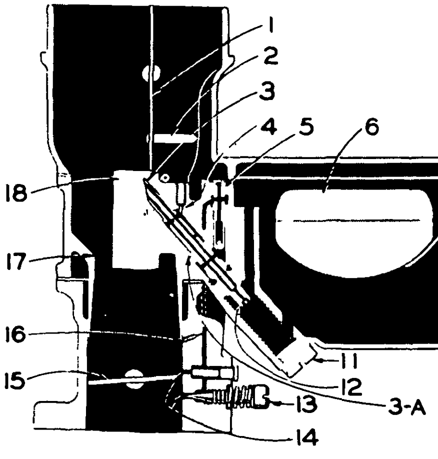
STROMBERG "EE-1" CARBURETOR

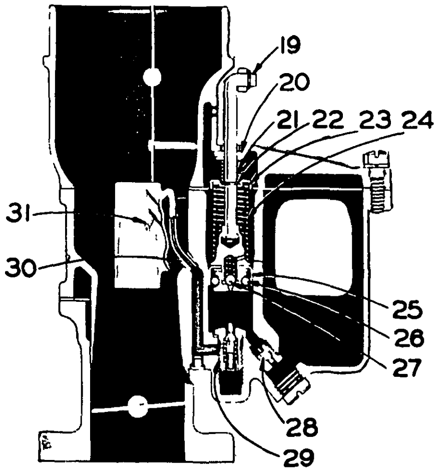
STROMBERG NO. A-18181 (CODE NO. 7-5A) BUICK SYMBOL 1293351
HEAVY-DUTY AIR CLEANER STR. NO. A-18191 (CODE NO. 7-7) BUICK SYMBOL 1293507
TRIPLEX AIR CLEANER NO. 1526654 STR. NO. A-18171 (CODE NO. 7-9) BUICK SYMBOL 1295087
SIZE: 1" DUAL D. D. 3-HOLE FLANGE

1936
BUICK
MODEL
"SERIES 40"
3-3/32"x3⅞"—8 cyl.

PARTS ILLUSTRATED

1. Choke Valve
2 Choke Valve Stop Pin
3 Main Discharge Jet
3A Main Discharge Jet Gasket
4 High Speed Bleeder
5 Idle Tube
6 Float
7 Float Needle Valve
8 Float Needle Valve Seat
9 Gasoline Inlet
10 Float Fulcrum Pin
11 Main Discharge Jet Plug
12 Main Metering Jet
13 Idle Needle Valve
14 Idle Discharge Holes
15 Throttle Valve
16 Idle Air Bleeder
17 Primary Venturi
18 Auxiliary Venturi
19 Pump Piston Link
20. Dust Washer
21 Dust Washer Spring
22 Spring Retainer Lock
23 Spring Retainer Washer
24 Pump Duration Spring
25 Pump Piston
26 Pump Piston Expansion Spring
27 Pump Relief Valve
28 Pump Inlet Check Valve
29 Power By-Pass Jet
30 Pump Discharge Nozzle Holder
31 Pump Discharge Nozzle





Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **15/32"** below top surface of float chamber (without gasket) at 3 lbs. pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level.)

MAIN METERING SYSTEM—Venturi **1-1/32"**; Main Discharge Jet **No. 32-36** P-21530 **(Tool T-24967)** use new P-20421 lead gasket assembled on lower shoulder of main discharge jet; High Speed Bleeder **No. 70** (in body); Main Metering Jet **.048"** P-19442, **(Tool T-24924) .045"** use with Triplex H. D. Air Cleaner No. 1526654, **.044"** use with Std. H. D. Air Cleaner; **(Tool T-19099)** use to remove main jet plug; Main Metering System controls the flow of fuel up to approximately 65 to 70 M. P. H.

POWER SYSTEM—Combination Power and Pump By-Pass Jet **No. 64** P-19523. Pump piston to rest on seat of by-pass jet (less over-travel) with throttle valve opened **21/64" + — 1/64"** (measure with shank end of **21/64"** drill). Adjust by bending pump fulcrum arm at ball joint end. The Power Jet is brought into action at approximately 65 to 70 M. P. H.

ACCELERATION—Pump Discharge Nozzles **No. 65;** Pump capacity **9** to **13** c.c. per 10 fast strokes and **18** to **22** c.c. per 10 slow strokes. **(Tool T-24972)** Pump action takes place during acceleration period only.

IDLE SYSTEM—Idle Discharge Holes **No. 56-60;** with throttle valve fully closed and **No. 60** drill in idle hole, edge of valve is located **.030" + — .006"** from **No. 60** drill; Idle Air Bleed **No. 54** (in throttle body) and **No. 70** (in idle tube); Idle Tube **No. 55** P-21528. **Adjustment:** Adjust to smooth running one barrel at a time, OUT to make richer and IN to make leaner. Throttle at 7 to 8 M. P. H.

VACUUM SPARK CONTROL—With throttle fully closed and **No. 58** drill in spark hole, edge of valve is located **.041" + — .004"** from **No. 58** drill

FLANGE GASKET—P-20466.

SPECIAL TOOLS REQUIRED—Use Buick complete Tool Kit **SER. 373:** T-24733 Float Adjuster; T-24967 Main Discharge Jet Remover; T-24924 Main Metering Jet Wrench; T-24970 By-Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burrette Gauge; T-24968 Handle; T-19099 Main Jet Plug Screw Driver.

MOTOR TUNE-UP DATA

SPARK PLUGS—.028"
Clean and adjust at regular intervals.

DISTRIBUTOR—.0125" to .0175".
Breaker gap set .0125" to .0175".
Replace if necessary.

VALVES—Intake: .015".
Exhaust: .015". **Engine hot.**

IGNITION TIMING—Breaker contacts to open for No. 1 cylinder when flywheel mark "ADV" is opposite index line on housing.

SERVICE RECOMMENDATION — Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

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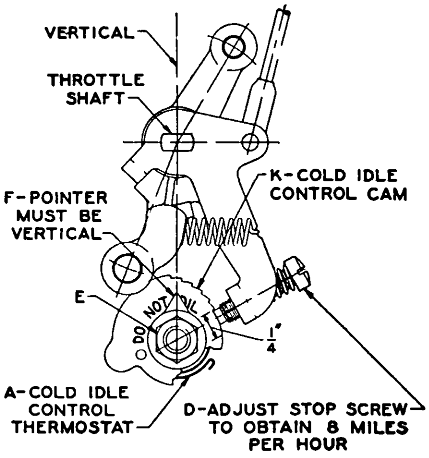
COLD IDLE CONTROL

The cold idle control consists of a thermostatically operated cam 'K mounted on intake manifold heat jacket This cam serves as a stop for throttle stop screw 'D'

The function of the cold idle control is to provide a fast idle speed during the warming up period of the engine This speed increases or decreases as the temperature of the riser changes

The variable speed is obtained by using a thermostat "A' which drives the cam "K' When the riser is cold the thermostat A rotates the cam 'K" in a clockwise direction causing its thick side to contact with the idle stop screw 'D' which speeds up the engine

As the riser warms up the thermostat is heated and thus revolves the cam "K" in a counter clockwise direction until idle screw D is contacting with the cam "K" at its thinnest section causing carburetor throttle to close to a normal hot idle speed


VERTICAL
THROTTLE SHAFT
K-COLD IDLE CONTROL CAM
F-POINTER MUST BE VERTICAL
E
NOT OIL
DO
1/4
A-COLD IDLE CONTROL THERMOSTAT
D-ADJUST STOP SCREW TO OBTAIN 8 MILES PER HOUR

Cold Idle Control

ADJUSTMENT

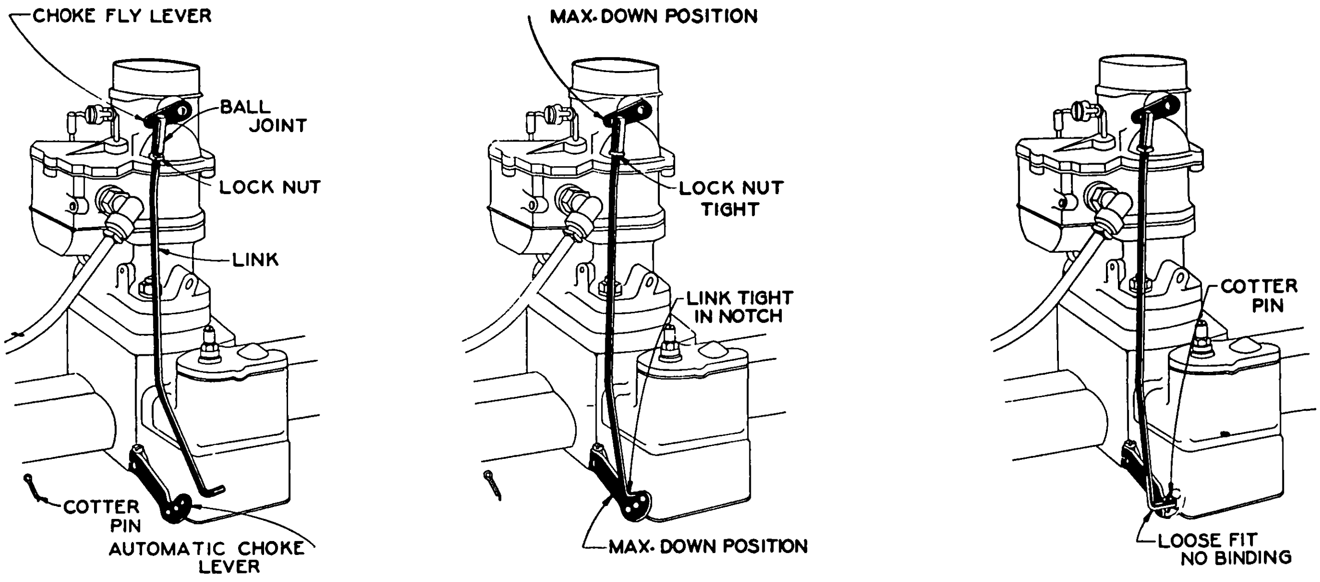
The cold idle control is adjusted and set in the correct position at the factory and with ordinary care should not need any further adjustment This setting can be checked as follows

Loosen nut 'E' and rotate cam hub in direction necessary to place the pointer "F' directly above nut E This adjustment may be made regardless of heat riser temperature

A momentary opening of the throttle is necessary to allow cam "K" to adjust itself for any temperature position This is because the spring "A" is not capable of rotating cam K while the idle adjusting screw is contacting the cam

Warm up the engine Throttle stop screw D should now contact the cam "K' on its thin portion and within the ¼' limit adjoining the first raised section of the cam If the throttle stop screw does not contact within the limit shown the cam hub with pointer attached may be rotated slightly in order to bring the ¼' section under the idle screw If it is necessary to rotate the pointer more than 5° from its former vertical position a complete new cam assembly should be installed

ADJUSTMENT OF CHOKE CONTROL LINK



ADJUSTMENT OF CHOKE CONTROL LINK

When installing a new carburetor or reassembling the old one it is very essential to check the length of the choke control link This should also be done when you have a complaint of hard starting to make certain that the choke valve in the carburetor closes completely

The proper procedure for doing this is

Remove link from the automatic choke lever Hold down both levers as far as they will go Check length of link Adjust to fit into notch of the automatic choke lever Reinstall in lower hole in lever marked "R which means regular Two additional holes are provided in the choke arm for use in obtaining a leaner calibration

Use of the center hole will result in a leaner setting This setting may be used to overcome rich operation when same is experienced with regular setting The upper hole marked H need only be used to overcome richness encountered as the result of the use of highly volatile fuels

If the automatic choke control requires service it should only be handled by United Motors Service branches and their authorized stations

ADJUSTING ACCELERATOR SWITCH ON MANIFOLD

Delco Remy Model 1594

It is important to follow exactly the sequence of operations shown below also to make careful reference to Figs 1 and 2

ENGINE IDLE ADJUSTMENT Refer to Fig. 1

a If it is desired to start the engine with control linage disconnected first return the accelerator switch lever to the cold idle position to engage the switch clutch then move lever until contact is made The throttle should be partly open during this operation

b Warm up engine until water temperature indicator on instrument panel shows 140°

c Check and if necessary adjust engine idle to speed of 8 m p h The idle speed is regulated by turning the IDLE SCREW shown in Fig 1

In making this adjustment it will be observed that the COLD IDLE CONTROL CAM will be in the approximate position shown in Fig 1 which is the warm idle position and that the hand throttle is pushed in as far as it will go

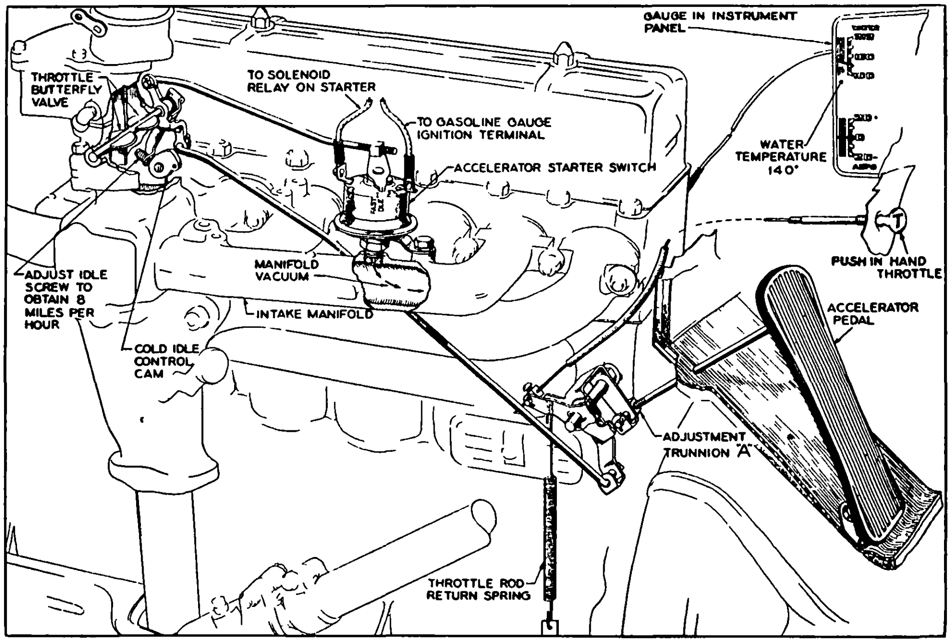

THROTTLE BUTTERFLY VALVE
TO SOLENOID RELAY ON STARTER
TO GASOLINE GAUGE IGNITION TERMINAL
ACCELERATOR STARTER SWITCH
GAUGE IN INSTRUMENT PANEL
WATER TEMPERATURE 140°
PUSH IN HAND THROTTLE
ACCELERATOR PEDAL
ADJUST IDLE SCREW TO OBTAIN 8 MILES PER HOUR
MANIFOLD VACUUM
INTAKE MANIFOLD
COLD IDLE CONTROL CAM
ADJUSTMENT TRUNNION "A"
THROTTLE ROD RETURN SPRING

Fig. 1—Engine Idle Adjustment.

SWITCH ADJUSTMENT—Refer to Fig. 2

a Rotate COLD IDLE CONTROL around by hand until it strikes stop This is fast or cold idle position Leave the cam in this position until the switch has been adjusted

b Remove adjustment trunnion B and turn until line on switch lever comes exactly opposite FAST IDLE LINE on switch back when trunnion comes directly opposite hole in switch lever

Check alignment of marks after replacing trunnion as this adjustment must be accurate

FINAL CHECK ON OPERATION AND ADJUSTMENT

a Turn on ignition switch

b Rotate COLD IDLE CONTROL CAM with screw driver

c Holding COLD IDLE CONTROL in fast idle position with one hand slowly push down on lever connecting to accelerator lever until switch just makes contact operating starter

Point of IDLE SCREW should clear cam by approximately 5/32 This is to make certain that the throttle is always open when the starter is cranking the engine

A cushion spring is used on the rod connecting to the accelerator switch to prevent damage to switch from over travel caused by sudden release of accelerator pedal See that spring is in place and that rod slides freely in trunnion

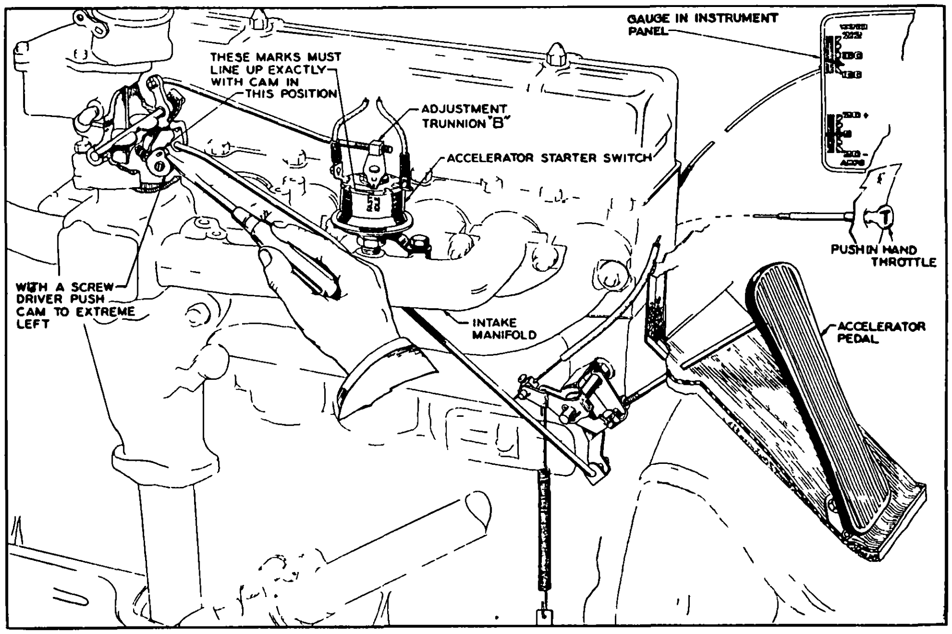
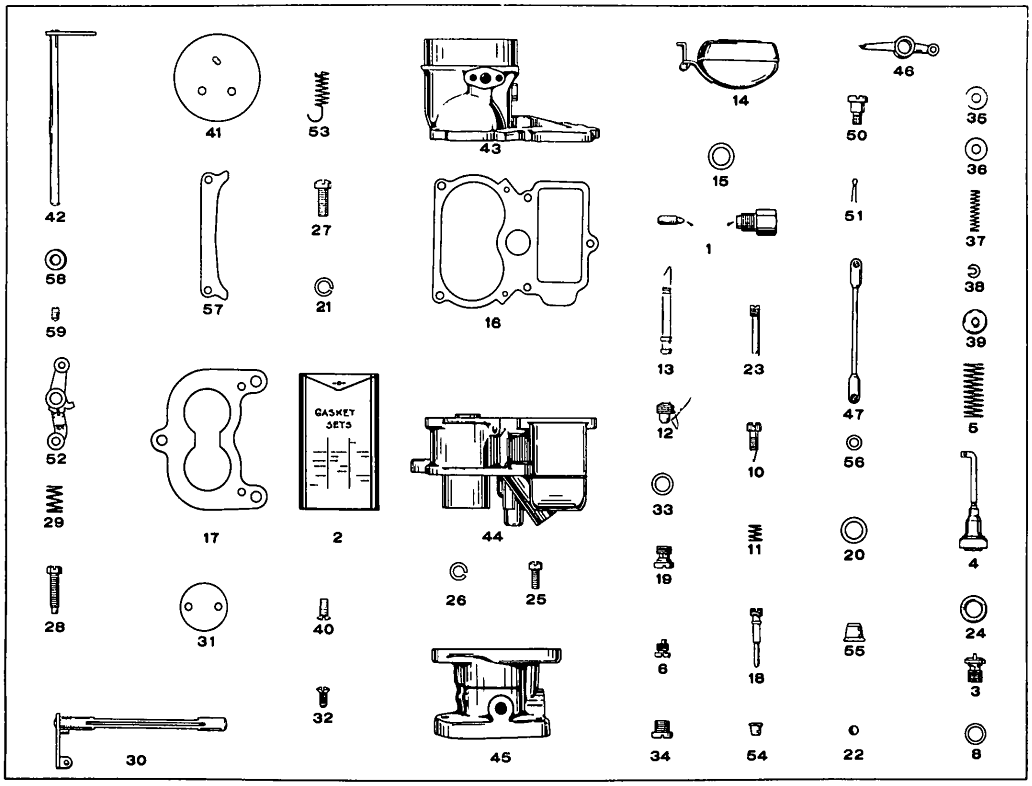

GAUGE IN INSTRUMENT PANEL
THESE MARKS MUST LINE UP EXACTLY WITH CAM IN THIS POSITION
ADJUSTMENT TRUNNION "B"
ACCELERATOR STARTER SWITCH
PUSH IN HAND THROTTLE
WITH A SCREW DRIVER PUSH CAM TO EXTREME LEFT
INTAKE MANIFOLD
ACCELERATOR PEDAL

Fig. 2—Accelerator Switch Adjustment.

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No	Part No	Part Name
	1	P 21659	Float Needle Valve and Seat 093 (NOT VAR)
	2	J 4599 G	Complete Gasket Set
	3	P 19523	Power By Pass Jet No 64 (NOT VAR)
		P 20623	Use No 66 Power By Pass Jet with Triplex Air Cleaner No 1526654 (NOT VAR)
	4	P 20440	Pump Piston and Link **(Includes P 16960 Spring)**
	4 A	P 20441	Pump Piston—Link and Spring (Complete)
	5	P 19458	Spring –Pump Duration
	6	P 18144	Check Valve –Pump Inlet
	8	P 19448	Gasket—By Pass Jet
	10	P 15478	Idle Needle Valve
	11	P 15481	Spring Idle Needle Valve
	12	P 19442	Metering Jet **048'** (VAR)
		Use P 19442	Met Jet with Triplex Air Cleaner
		Use P 19442	**045** Met Jet with Triplex Air Cleaner No 1526654 (VAR)
	13	P 21530	Main Disch Jet No 32 36 (NOT VAR)
	14	P 19825	Float with Lever
	15	P 10666	Gasket—Float Needle Valve and Seat
	16	P 19428	Gasket—Air Horn
	17	P 21529	Gasket—Main Body
	18	P 21528	Idle Tube
	19	P 22019	Plug Main Disch Jet (,7 24)
		P 21525	Plug Main Disch Jet (3/8 24)
	20	P 2886	Gasket—Main Disch Jet Plug
		P 7338	Gasket—Use with P 21525
	21	P 3157	Lockwasher—Main Body Attach Screw
	22	P 18772	Lead Ball
	23	P 18125	Screw– Fulcrum—Float Lever
	24	P 16960	Spring– Pump Piston Leather Expansion
	25	P 3199	Screw Air Horn Attach
	26	P 1791	Lockwasher—Air Horn Attach Screw
	27	P 13041	Screw –Main Body Attach
	28	P 21668	Screw Throttle Stop
	29	P 15831	Spring –Throttle Stop Screw
	30	P 20415	Throttle Stem and Pump Lever
		P 19509	Ball Joint

NOTE—For parts marked (VAR) size must be specified when ordering

Bin Location	Key No	Part No	Part Name
	31	P 20437	Throttle Valve (5°) (NOT VAR)
	32	P 20904	Screw Throttle Valve Attach
	33	P 7338	Gasket—Check Valve Plug
	34	P 19716	Plug—Check Valve
	35	P 17380	Washer—Felt
	36	P 17060	Washer– Splash—Pump Link
	37	P 19488	Spring—Packing Retainer
	38	P 22045	Washer—Horse Shoe
	39	P 22046	Washer—Spring Retainer
	40	P 4522	Screw –Choke Valve Attach
	41	P 20266	Choke Valve
	42	P 20410	Choke Stem and Lever
	43	P 20423 T	Air Horn
	43 A	P 20407	Assy Air Horn with Valve
	44	P 21532	Assy –Main Body—**1 1/32** Venturi Complete with **No 70** H S Bleeder **No 65** Pump Disch Tube (VAR)
		P 20435	Pump Disch Tube (Right)
		P 20436	Pump Disch Tube (Left)
		P 19430	Wedge –Pump Tubes
	45	P 20990	Assy —Throttle Body with Bushing **N 56 60** Idle Disch Holes with **No 54** Idle Air Bleeder **No 58** Spark Control Hole (VAR)
		P 20470	Idle Air Bleed—No 54 (NOT VAR)
		P 20406	Throttle Stem Bushing
	46	P 19427	Pump Lever
	47	P 20458	Pump Rod
	50	P 19433	Screw—Fulcrum—Pump Lever
	51	P 7170	Cotter Pin Pump Lever and Link
	52	P 20416	Throttle Lever
	53	P 20422	Spring –Throttle Lever Return
	54	P 15458	Plug—Idle Disch Channel No 10
	55	P 20454	Plug –Idle Disch Channel 7/64
	56	P 20421	Gasket—Main Disch Jet—Lead
	57	P 19703	Baffle Plate
	58	P 17801	Collar –Choke Valve Stem
	59	P 16161	Set Screw Choke Valve Stem Collar

BENDIX PRODUCTS DIVISION
SOUTH BEND OF BENDIX AVIATION CORPORATION **INDIANA**

STROMBERG "EE-22" CARBURETOR

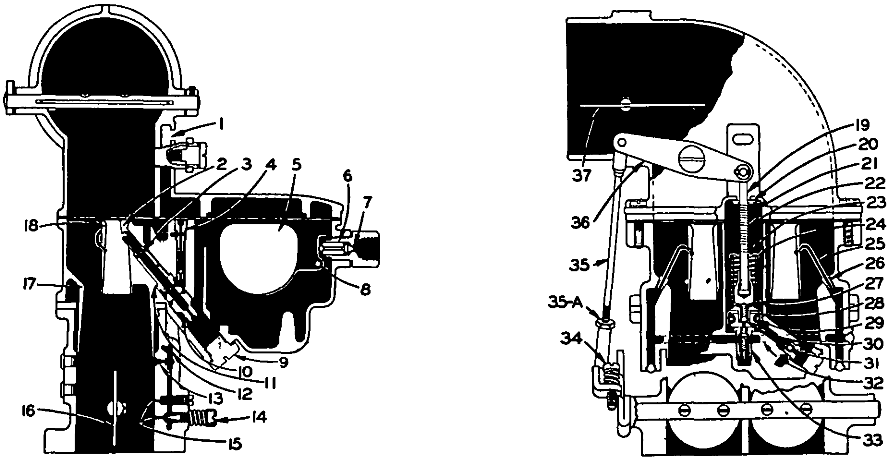
STROMBERG NO. A-18182 (CODE NO. 7-6) BUICK SYMBOL 1293352

HEAVY-DUTY AIR CLEANER STR. NO. A-18192 (CODE NO. 7-7) BUICK SYMBOL 1293510

SIZE: 1¼" DUAL D. D. 4-HOLE FLANGE.

1936
BUICK
MODELS
60, 80, 90
Before Frame No. 2873362
3-7/16"x4-5/16"—8 cyl.

PARTS ILLUSTRATED



1 Float Chamber Vent
2 Main Discharge Jet
3 High Speed Bleeder
4 Idle Tube
5 Float
6 Float Needle Valve
7 Float Needle Valve Seat
8 Float Fulcrum Pin
9 Main Discharge Jet Plug
10 Main Metering Jet
11 Main Discharge Jet Gasket
12 Idle Channel
13 Idle Air Bleeder
14 Idle Needle Valve
15 Idle Discharge Holes
16 Throttle Valve
17 Primary Venturi
18 Auxiliary Venturi
19 Pump Piston Link
20 Felt Dust Washer
21 Retainer Washer
22 Dust Washer Spring
23. Spring Retainer Lock
24 Spring Retainer Washer
25. Pump Discharge Nozzle
26 Pump Discharge Nozzle Holder
27 Pump Duration Spring
28 Pump Piston
29 Piston Expansion Spring
30 Pump Relief Valve
31 Pump Inlet Check Valve
32 Pump Discharge Channel
33 Power By-Pass Jet
34 Throttle Stop Screw
35 Pump Rod
35A Pump Rod Lock Nut
36 Pump Arm
37. Choke Valve

Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure, **5/8"** below top surface of float chamber (without gasket) at 3 lbs. pressure. (Use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level.)

MAIN METERING SYSTEM—Venturi **1-3/16"**; Main Discharge Jet **No. 28** P-21682 **(Tool T-24967** use new P-20630 lead gasket assembled on lower shoulder of Main Discharge Jet); High Speed Bleeder **No. 70** (In body); Main Metering Jet **.052"**, P-17004 **.051"** used with Triplex H. D. Air Cleaner **(Tool T-23844)**; **(Tool T-19099)** used to remove main jet plug; Main Metering system controls the flow of fuel up to approximately 70 to 75 M. P. H.

POWER SYSTEM—Combination Power and Pump By-Pass Jet **No. 65** P-20467; Pump Piston to rest on By-Pass Jet (less over-travel) with throttle valve opened **15/64" + — 1/64"** (measure with shank end of **15/64"** drill); adjust by bending pump rod. The Power Jet is brought into action at approximately 70 to 75 M. P. H.

ACCELERATION — Pump Discharge Nozzles **No. 65**; Pump Capacity **13** to **17** c.c. per 10 fast strokes and **23** to **27** c.c. per 10 slow strokes. **(Tool T-24972)** Pump action takes place during acceleration period only.

IDLE SYSTEM—Idle Discharge holes **No. 56-60.** With throttle valve fully closed and **No. 60** drill in idle hole, edge of valve is located **.030" + — .004"** from **No. 60** drill. Idle Air Bleeds **No. 58** P-21543 located in throttle body and **No. 70** in idle tube; Idle Tube **No. 55** P-21557. **Adjustment:** Adjust to smooth running, one barrel at a time, OUT to make richer and IN to make leaner. Throttles at 7 to 8 M. P. H.

VACUUM SPARK CONTROL—With throttle fully closed and **No. 64** drill in spark hole, edge of valve is located **.085" + — .006"** from **No. 64** drill.

FLANGE GASKET—P-18165.

SPECIAL TOOLS REQUIRED—Use Buick complete Tool Kit **SER. 373; T-24733** Float Bender; T-24967 Main Discharge Jet Remover; T-23844 Main Metering Jet Wrench; T-24970 By-Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burrette Gauge; T-24968 Handle; T-19099 Main Jet Plug Screw Driver.

MOTOR TUNE-UP DATA

SPARK PLUG—.025".
Clean and readjust at regular intervals.

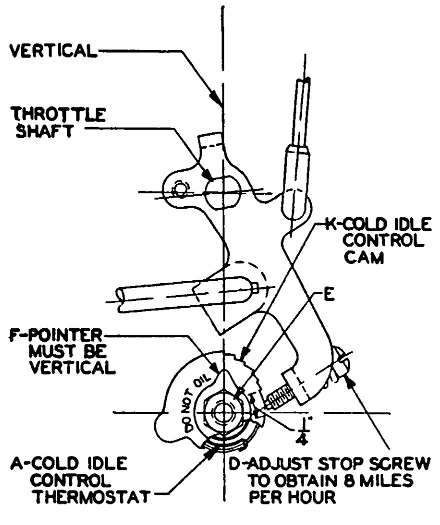
DISTRIBUTOR—.0125" to .0175".
Breaker gap set .0125" to .0175".
Replace if necessary.

VALVES—Intake: .015".
Exhaust: .015". Engine hot.

IGNITION TIMING—Breaker contacts to open for No. 1 cylinder when flywheel mark "ADV" is opposite index line on housing.

SERVICE RECOMMENDATION — Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

COLD IDLE CONTROL


VERTICAL
THROTTLE SHAFT
K-COLD IDLE CONTROL CAM
E
F-POINTER MUST BE VERTICAL
DO NOT OIL
1/4
A-COLD IDLE CONTROL THERMOSTAT
D-ADJUST STOP SCREW TO OBTAIN 8 MILES PER HOUR

COLD IDLE CONTROL

The cold idle control consists of a thermostatically operated cam "K" mounted on intake manifold heat jacket This cam serves as a stop for throttle stop screw "D"

The function of the cold idle control is to provide a fast idle speed during the warming-up period of the engine This speed increases or decreases as the temperature of the riser changes

The variable speed is obtained by using a thermostat "A" which drives the cam "K" When the riser is cold the thermostat 'A' rotates the cam 'K" in a clockwise direction causing its thick side to contact with the idle stop screw "D" which speeds up the engine

As the riser warms up the thermostat is heated and thus revolves the cam "K" in a counter clockwise direction until idle screw D is contacting with the cam 'K" at its thinnest section causing carburetor throttle to close to a normal hot idle speed

ADJUSTMENT

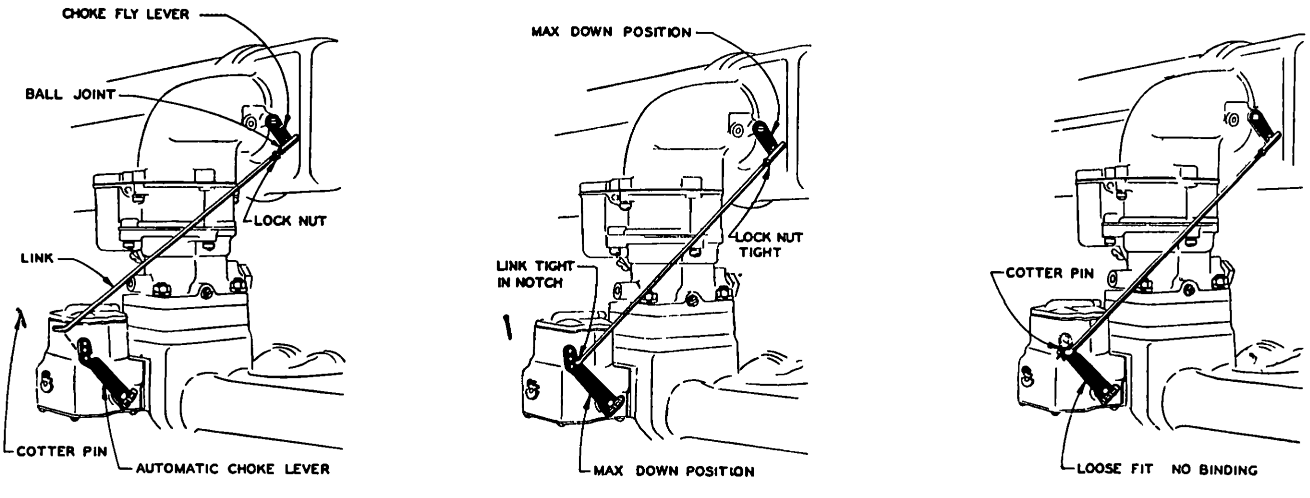
The cold idle control is adjusted and set in the correct position at the factory and with ordinary care should not need any further adjustment This setting can be checked as follows

Loosen nut E' and rotate cam hub in direction necessary to place the pointer "F" directly above nut E This adjustment may be made regardless of heat riser temperature

A momentary opening of the throttle is necessary to allow cam "K" to adjust itself for any temperature position This is because the spring A" is not capable of rotating cam K while the idle adjusting screw is contacting the cam

Warm up the engine Throttle stop screw 'D should now contact the cam "K" on its thin portion and within the ¼ limit adjoining the first raised section of the cam If the throttle stop screw does not contact within the limit shown the cam hub with pointer attached may be rotated slightly in order to bring the ¼" section under the idl screw If it is necessary to rotate the pointer more than 5° from its former vertical position a complete new cam assembly should b installed

ADJUSTMENT OF CHOKE CONTROL LINK



ADJUSTMENT OF CHOKE CONTROL LINK

When installing a new carburetor, or reassembling the old one it is very essential to check the length of the choke control link This should also be done when you have a complaint of hard starting to make certain that the choke valve in the carburetor closes completely

The proper procedure for doing this is

Remove link from the automatic choke lever Hold down both levers as far as they will go Check length of link Adjust to fit into notch of the automatic choke lever Reinstall in lower hole in lever marked "R' which means regular Two additional holes are provided in the choke arm for use in obtaining a leaner calibration

Use of the center hole will result in a leaner setting This setting may be used to overcome rich operation when same is experienced with regular setting The upper hole marked H need only be used to overcome richness encountered as the result of the use of highly volatile fuels

If the automatic choke control requires service it should only be handled by United Motors Service branches and their authorized stations

ADJUSTING ACCELERATOR SWITCH ON MANIFOLD

Delco Remy Model 1601

It is important to follow exactly the sequence of operations shown below also to make careful reference to Figs 1 and 2

ENGINE IDLE ADJUSTMENT
Refer to Fig. 1

a If it is desired to start the engine with control linage disconnected first return the accelerator switch lever to the cold idle position to engage the switch clutch then move lever until contact is made The throttle should be partly open during this operation

b Warm up engine until water temperature indicator on instrument panel shows 140°

c Check and if necessary adjust engine idle to speed of 8 m p h The idle speed is regulated by turning the IDLE SCREW shown in Fig 1

In making this adjustment it will be observed that the COLD IDLE CONTROL CAM will be in the approximate position shown in Fig 1 which is the warm idle position and that the hand throttle is pushed in as far as it will go

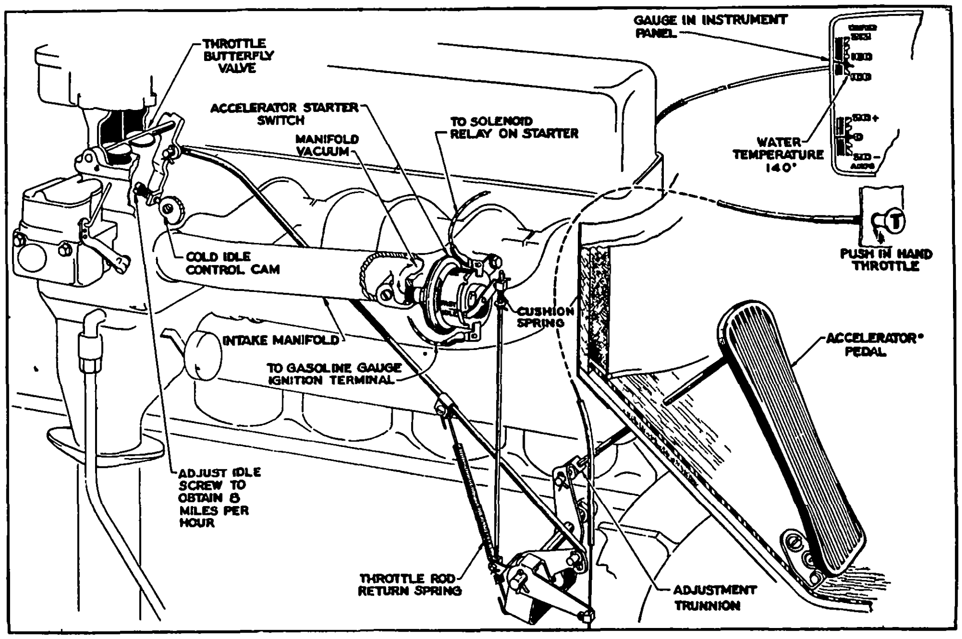

THROTTLE BUTTERFLY VALVE
ACCELERATOR STARTER SWITCH
MANIFOLD VACUUM
TO SOLENOID RELAY ON STARTER
GAUGE IN INSTRUMENT PANEL
WATER TEMPERATURE 140°
PUSH IN HAND THROTTLE
COLD IDLE CONTROL CAM
CUSHION SPRING
INTAKE MANIFOLD
ACCELERATOR PEDAL
TO GASOLINE GAUGE IGNITION TERMINAL
ADJUST IDLE SCREW TO OBTAIN 8 MILES PER HOUR
THROTTLE ROD RETURN SPRING
ADJUSTMENT TRUNNION

Fig. 1—Engine Idle Adjustment.

SWITCH ADJUSTMENT—Refer to Fig. 2

a Rotate COLD IDLE CONTROL around by hand until it strikes stop This is fast or cold idle position Leave the cam in this position until the switch has been adjusted

b Remove adjustment trunnion "B" and turn until line on switch lever comes exactly opposite FAST IDLE LINE on switch back when trunnion comes directly opposite hole in switch lever

Check alignment of marks after replacing trunnion as this adjustment must be accurate

FINAL CHECK ON OPERATION AND ADJUSTMENT

a Turn on ignition switch

b Rotate COLD IDLE CONTROL CAM with screw driver

c Holding COLD IDLE CONTROL in fast idle position with one hand slowly push down on lever connecting to accelerator lever until switch just makes contact operating starter

Point of IDLE SCREW should clear cam by approximately 5/32 This is to make certain that the throttle is always open when the starter is cranking the engine

A cushion spring is used on the rod connecting to the accelerator switch to prevent damage to switch from over travel caused by sudden release of accelerator pedal See that spring is in place and that rod slides freely in trunnion

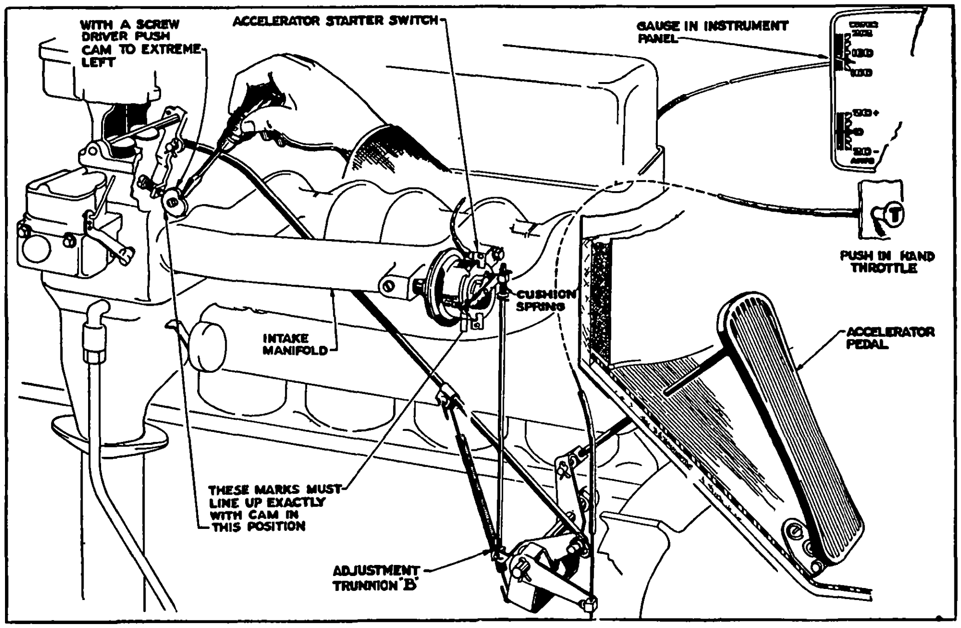
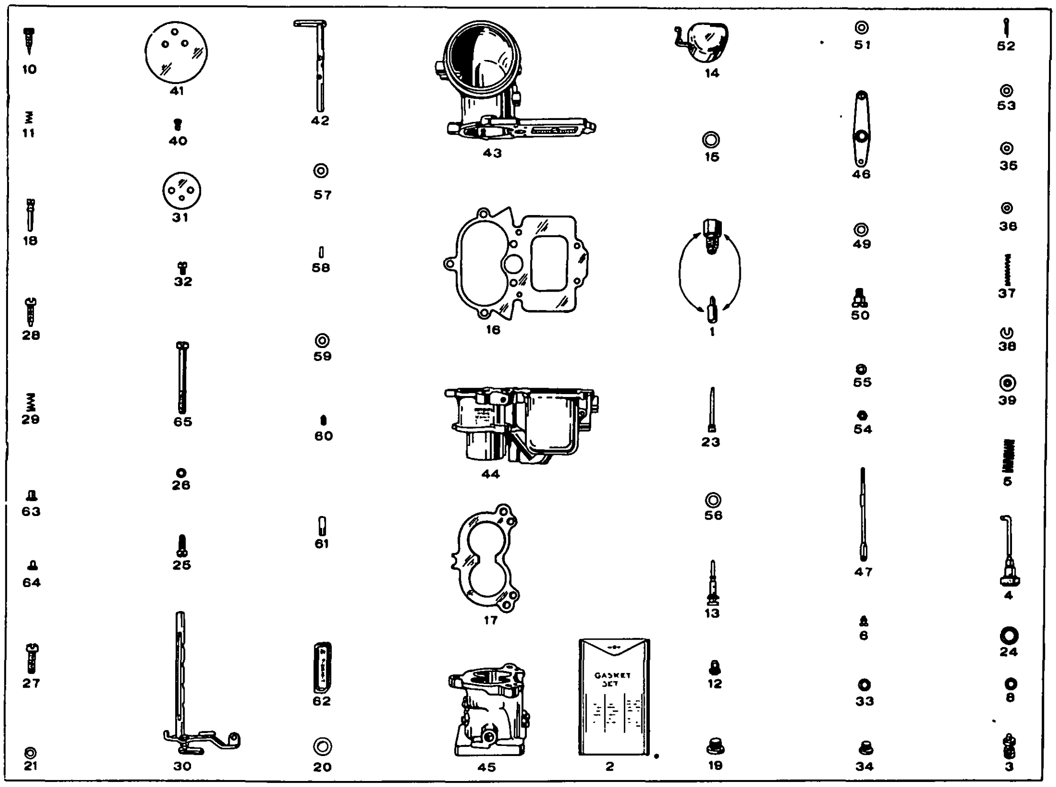

WITH A SCREW DRIVER PUSH CAM TO EXTREME LEFT
ACCELERATOR STARTER SWITCH
GAUGE IN INSTRUMENT PANEL
PUSH IN HAND THROTTLE
CUSHION SPRING
INTAKE MANIFOLD
ACCELERATOR PEDAL
THESE MARKS MUST LINE UP EXACTLY WITH CAM IN THIS POSITION
ADJUSTMENT TRUNNION "B"

Fig. 2—Accelerator Switch Adjustment.

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No.	Part No.	Part Name
	1	**P-21651**	Float Needle Valve & Seat—.101" **(NOT VAR.)**
	2	**J-4600-G**	Complete Gasket Set
	3	**P-20467**	Power By-Pass Jet No. 65 **(NOT VAR.)**
	4	**P-21554**	Pump Piston & Link **(Includes P-21568)**
	4-A	**P-21553**	Pump Piston Link & Spring (Complete)
	5	**P-21569**	Spring—Pump Duration
	6	**P-18144**	Check Valve—Pump Inlet
	8	**P-19448**	Gasket—By-Pass Jet
	10	**P-15478**	Idle Needle Valve
	11	**P-18710**	Spring—Idle Needle Valve
	12	**P-17004**	Metering Jet **.052"** **(VAR.)**
		Use P-17004	.051" Metering Jet for Triplex Air Cleaner **(VAR.)**
	13	**P-21682**	Main Disch. Jet No. 28 **(NOT VAR.)**
	14	**P-21551**	Float with Lever
	15	**P-10666**	Gasket—Float Needle Valve Seat
	16	**P-21570**	Gasket—Air Horn
	17	**P-16941**	Gasket—Main Body
	18	**P-21557**	Idle Tube No. 60 **(NOT VAR.)**
	19	**P-21558**	Plug—Main Disch. Jet
	20	**P-60308**	Gasket—Main Disch. Jet Plug
	21	**P-3157**	Lockwasher—Main Body Attach. Screw
	23	**P-17939**	Screw—Fulcrum—Float Lever
	24	**P-21568**	Spring—Pump Piston Leather Expansion
	25	**P-2475**	Screw—Air Horn Attach.
	26	**P-6668**	Lockwasher—Air Horn Attach. Screw
	27	**P-15554**	Screw—Main Body Attach.
	28	**P-20424**	Screw—Throttle Stop
	29	**P-15831**	Spring—Throttle Stop Screw
	30	**P-21539**	Throttle Lever and Stem
		P-21541	Ball Joint
		P-16571	Ball Joint Lock Nut
		P-1791	Ball Joint Lock Nut Lockwasher
	31	**P-17018**	Throttle Valve (5°) **(NOT VAR.)**
	32	**P-16716**	Screw—Throttle Valve Attach.
	33	**P-7338**	Gasket—Check Valve Plug
	34	**P-19716**	Plug—Check Valve
	35	**P-17380**	Washer—Felt
	36	**P-17060**	Washer—Splash—Pump Link
	37	**P-17947**	Spring—Felt Retainer
	38	**P-22045**	Washer—Horseshoe
	39	**P-22046**	Washer—Spring Retainer
	40	**P-4522**	Screw—Choke Valve Attach.
	41	**P-21538**	Choke Valve
	42	**P-21535**	Choke Stem and Lever
	43	**P-21534-T**	Air Horn
	43-A	**P-21533**	Assy.—Air Horn with Valve
	44	**P-21560**	Main Body **1-3/16"** Venturi **No. 70** High Speed Bleeder **No. 65** Pump Disch. Tubes **(VAR.)**
		P-21561	Pump Disch. Tubes **No. 65** **(NOT VAR.)**
		P-19430	Pump Tube Wedge
	45	**P-21521**	Assy.—Throttle Body **No. 56-60** Idle Disch. Holes and **No. 58** Idle Air Bleed **No. 64** Spark Control Hole **(VAR.)**
		P-21543	Idle Air Bleed No. 58 **(NOT VAR.)**
	46	**P-21733**	Pump Lever
		P-19509	Ball Joint Connection
	47	**P-21548**	Pump Rod
	49	**P-19820**	Washer—Pump Fulcrum Screw Spring
	50	**P-19433**	Screw—Pump Lever Fulcrum
	51	**P-21547**	Washer—Pump Lever Fulcrum Screw
	52	**P-7170**	Cotter Pin—Pump Lever
	53	**P-9394**	Washer—Pump Lever and Link
	54	**P-19587**	Nut—Pump Rod Adj.
	55	**P-1693**	Lockwasher—Pump Rod Adj. Nut
	56	**P-20630**	Gasket—Main Disch. Jet—Lead
	57	**P-12400**	Washer—Choke Stem
	58	**P-3881**	Pin—Choke Stem
	59	**P-17081**	Collar—Choke Stem
	60	**P-16161**	Set Screw—Choke Stem Collar
	61	**P-16764**	Pin—Choke Valve Stop
	62	**P-21510-T**	Cup—Baffle—Float Chamber
	63	**P-15459**	Plug—Idle Disch. Hole 1/4"
	64	**P-15458**	Plug—Idle Disch.
	65	**P-18111**	Screw—Air Horn Attach.

NOTE—F r parts marked (VAR.) size must be specified when rdering.

BENDIX PRODUCTS DIVISION
SOUTH BEND **OF BENDIX AVIATION CORPORATION** **INDIANA**

STROMBERG "EE-1" CARBURETOR

STROMBERG NO. A-17671 (CODE NO. 7-1) BUICK SYMBOL 1288726

HEAVY-DUTY AIR CLEANER STR. NO. A-17681 (CODE 7-2) BUICK SYMBOL 1289117

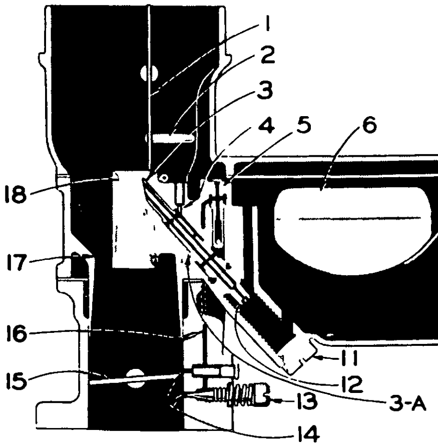
SIZE: 1" DUAL D. D. 3-HOLE FLANGE.

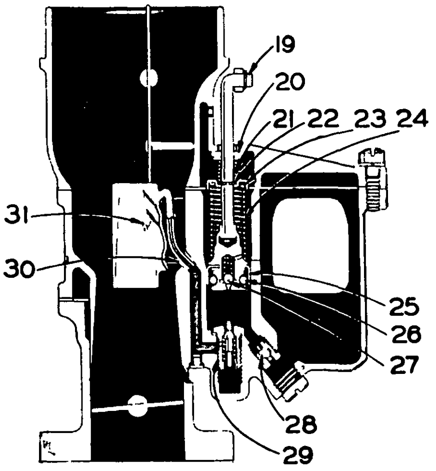
1935
BUICK

MODEL
"SERIES 40"
3-3/32"x3⅞"—8 cyl.

PARTS ILLUSTRATED

1 Choke Valve
2 Choke Valve Stop Pin
3 Main Discharge Jet
3A Main Discharge Jet Gasket
4 High Speed Bleeder
5 Idle Tube
6 Float
7 Float Needle Valve
8 Float Needle Valve Seat
9. Gasoline Inlet
10 Float Fulcrum Pin
11 Main Discharge Jet Plug
12 Main Metering Jet
13 Idle Needle Valve
14 Idle Discharge Holes
15 Throttle Valve
16 Idle Air Bleeder
17 Primary Venturi
18 Auxiliary Venturi
19 Pump Piston Link
20 Dust Washer
21 Dust Washer Spring
22 Spring Retainer Lock
23 Spring Retainer Washer
24 Pump Duration Spring
25 Pump Piston
26 Pump Piston Expansion Spring
27 Pump Relief Valve
28 Pump Inlet Check Valve
29 Power By-Pass Jet
30 Pump Discharge Nozzle Holder
31 Pump Discharge Nozzle





Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **15/32"** below top surface of float chamber (without gasket) at 3 lbs. pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level.)

MAIN METERING SYSTEM—Venturi **1-1/32"** Main Discharge Jet **No. 32-36** P-20420 **(Tool T-24967)** use new P-20421 lead gasket assembled on lower shoulder of main discharge jet; High Speed Bleeder **No. 70** (in body); Main Metering Jet **.049"** P-19442 **(Tool T-24924):** use **.045"** with heavy-duty air cleaner, **(Tool T-19099)** used to remove main jet plug; Main Metering System controls the flow of fuel up to approximately 65 to 70 M. P. H.

POWER SYSTEM—Combination Power and Pump By-Pass Jet **No. 64** P-19523 Pump piston to rest on seat of by-pass jet (less over-travel) with throttle valve opened **21/64" + — 1/64"** (measure with shank end of **21/64"** drill) adjust by bending pump fulcrum arm at ball joint end. The Power Jet is brought into action at approximately 65 to 70 M. P. H.

ACCELERATION Pump Discharge Nozzles **No. 65:** Pump capacity **9** to **13** c.c. per 10 fast strokes and **18** to **22** c.c. per 10 slow strokes. **(Tool T-24972)** Pump action takes place during acceleration period only

IDLE SYSTEM—Idle Discharge Holes **Nos. 56-60:** with throttle valve fully closed and **No. 60** drill in idle hole, edge of valve is located **.030" + — .006"** from **No. 60** drill; Idle Air Bleed **No. 54** (in throttle body) and **No. 70** (in idle tube); Idle Tube **No. 55** P-20419. **Adjustment:** Adjust to smooth running one barrel at a time, OUT to make richer and IN to make leaner. Throttle at 7 to 8 M. P. H

VACUUM SPARK CONTROL—With throttle fully closed and **No. 58** drill in spark hole, edge of valve is located **.041" + — .004"** from **No. 58** drill.

FLANGE GASKET—P-20466.

SPECIAL TOOLS REQUIRED—Use Buick complete Tool Kit **SER 373;** T-24733 Float Adjuster; T-24967 Main Discharge Jet Remover; T-24924 Main Metering Jet Wrench; T-24970 By-Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burrette Gauge; T-24968 Handle; T-19099 Main Jet Plug Screw-Driver.

MOTOR TUNE-UP DATA

SPARK PLUGS—.022".
Clean and adjust at regular intervals.

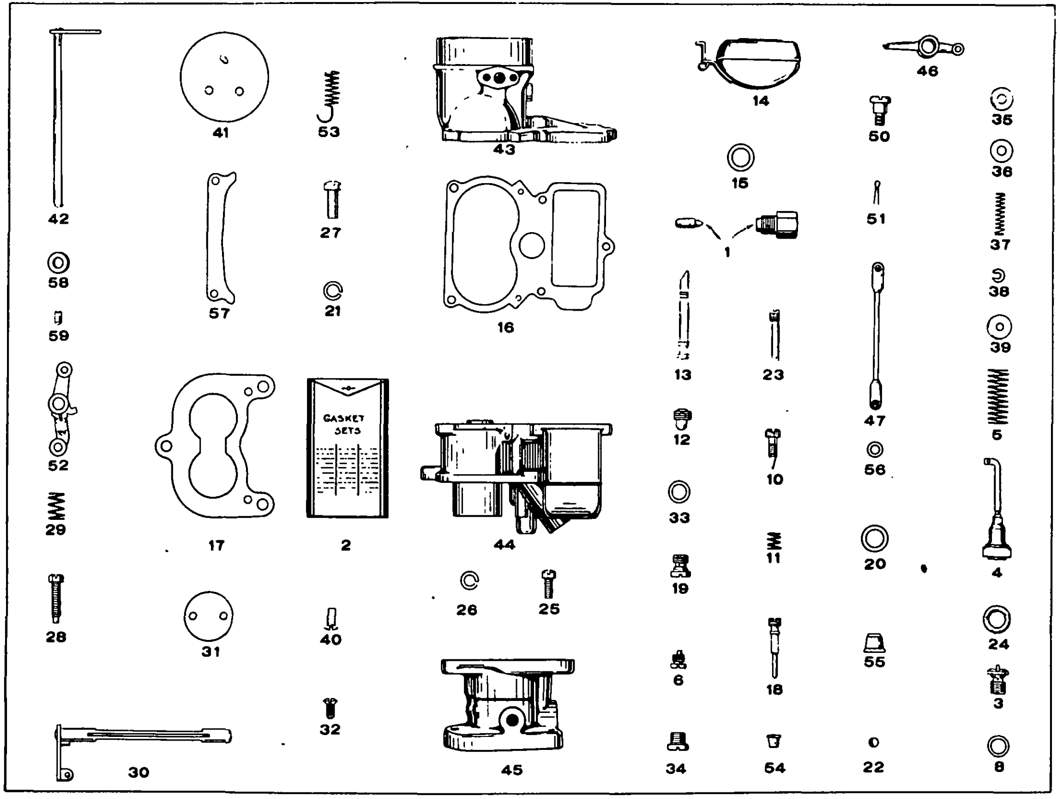
DISTRIBUTOR—.0125" to .0175".
Breaker gap set .0125" to .0175".
Replace if necessary.

VALVES—Intake: .008".
Exhaust: .008". Engine hot.

IGNITION TIMING—Breaker contacts to open for No. 1 cylinder when flywheel mark "ADV" is opposite index line on housing.

SERVICE RECOMMENDATION — Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No.	Part No.	Part Name
	1.	**P-21659**	Float Needle Valve and Seat .093"....**(NOT VAR.)**
	2	**J-4538-G**	Complete Gasket Set
	3	**P-19523**	Power By-Pass Jet No. 64 ....**(NOT VAR.)**
	4	**P-20440**	Pump Piston and Link....**(Includes P-16960 Spring)**
	4-A	**P-20441**	Pump Piston Link and Spring (Complete)
	5	**P-19458**	Spring—Pump Duration
	6	**P-18144**	Check Valve—Pump Inlet
	8	**P-19448**	Gasket—By-Pass Jet
	10	**P-15478**	Idle Needle Valve
	11	**P-15481**	Spring—Idle Needle Valve
	12	**P-19442**	Metering Jet **.049"** .. ..**(VAR).**
		Use P-19442	**.045"** Met. Jet on Triplex Air Cleaner **(VAR.)**
	13	**P-20420**	Main Discharge Jet No. 32-36 ....**(NOT VAR.)**
	14	**P-19825**	Float with Lever
	15	**P-10666**	Gasket—Float Needle Valve Seat
	16	**P-19428**	Gasket—Air Horn
	17	**P-20455**	Gasket—Main Body
	18	**P-20419**	Idle Tube
	19	**P-20447**	Plug—Main Disch. Jet
	21	**P-3157**	Lockwasher—Main Body Attach. Screw
	22	**P-18772**	Lead Ball
	23	**P-18125**	Screw—Fulcrum—Float Lever
	24	**P-16960**	Spring—Pump Piston Leather Expansion
	25	**P-3199**	Screw—Air Horn Attach.
	26	**P-1791**	Lockwasher—Air Horn Attach. Screw
	27	**P-13041**	Screw—Main Body Attach.
	28	**P-20424**	Screw—Throttle Stop
	29	**P-15831**	Spring—Throttle Stop Screw
	30	**P-20415**	Throttle Stem and Pump Lever
		P-19509	Ball Joint
	31	**P-20437**	Throttle Valve (5°) ....**(NOT VAR.)**
	32	**P-20904**	Screw—Throttle Valve Attach.
	33	**P-7338**	Gasket—Main Disch. Jet and Check Valve Plug..

NOTE—For parts marked (VAR.) size must be specified when ordering.

Bin Location	Key No.	Part No.	Part Name
	34	**P-19716**	Plug—Check Valve
	35	**P-17380**	Washer—Felt
	36	**P-17060**	Washer—Splash—Pump Link
	37	**P-19488**	Spring—Felt Retainer
	38	**P-22045**	Washer—Horseshoe
	39	**P-22046**	Washer—Spring Retainer
	40	**P-4522**	Screw—Choke Valve Attaching
	41	**P-20266**	Choke Valve
	42	**P-20410**	Choke Stem and Lever
	43	**P-20423-T**	Air Horn
	43-A	**P-20407**	Assy.—Air Horn and Valve
	44	**P-20411**	Assy.—Main Body **1-1/32"** Venturi **No. 70** H. S. Bleeder with **No. 65** Pump Disch. Tubes......**(VAR.)**
		P-20435	Pump Disch. Tube (Right)
		P-20436	Pump Disch. Tube (Left)
		P-19430	Pump Disch. Tube Wedge
	45	**P-20990**	Assy.—Throttle Body with Bushing **No. 56-60** Idle Disch. Holes **No. 55** Idle Air Bleed **No. 58** Spark Hole ....**(VAR.)**
		P-20470	Idle Air Bleed
		P-20406	Throttle Stem Bushing
	46	**P-19427**	Pump Lever
	47	**P-20458**	Pump Rod
	50	**P-19433**	Screw—Fulcrum—Pump Lever
	51	**P-7170**	Cotter Pin—Pump Lever and Link
	52	**P-20416**	Throttle Lever
	53	**P-20422**	Spring—Throttle Lever Return
	54	**P15458**	Plug—Idle Disch. Channel No. 10
	55	**P-20454**	Plug—Idle Disch. Channel 17/64"
	56	**P-20421**	Gasket—Main Disch. Jet—Lead
	57	**P-19703**	Baffle Plate
	58	**P-17081**	Collar—Choke Valve Stem
	59	**P-16161**	Set Screw—Choke Valve Stem Collar

BENDIX PRODUCTS DIVISION
SOUTH BEND **OF BENDIX AVIATION CORPORATION** **INDIANA**

AUTOMATIC CHOKE CONTROL

OPERATION AND ADJUSTMENTS

Choke Units as Used on Cadillac AAV-26 Carburetors

GENERAL DESCRIPTION

The automatic choke control is built into a housing integral with the carburetor. The principles used in the operation of the automatic choke are manifold vacuum, thermostat spring, and an offset choke valve in the carburetor. The vacuum piston and thermostat are directly connected to the carburetor choke valve and accurately control the opening and closing of the choke valve under varying operating temperatures and at various throttle positions A tube leading from the exhaust manifold to the thermostat chamber transmits heat to govern the tension of the thermostat spring A fast idle cam operating in conjunction with the automatic choke provides the proper throttle opening for a cold engine and thereby prevents the engine from stalling during the warming-up period.

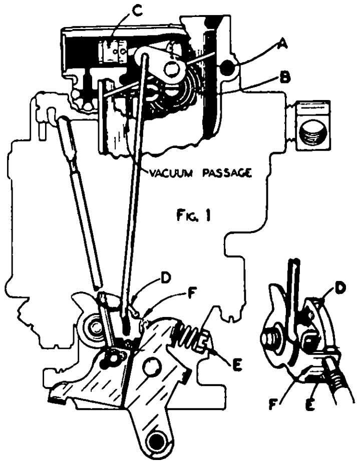


Fig. 1

CHOKE CLOSED—FAST IDLE—COLD ENGINE—FIG. 1

When the engine becomes cold, the thermostat "B" also cools and gradually gains tension. The thermostat is unable to close the choke valve "A" until the throttle is opened. **It is therefore necessary to depress the accelerator pedal slightly and then allow it to return to normal position before making a start.** Opening the throttle in this manner permits the throttle stop screw "E" to be moved away from the fast idle cam "D." This allows the choke valve to close in accordance with the thermostat tension. The throttle stop screw then comes to rest on a higher lobe of the fast idle cam or on the ear of the loose lever "F" if the choke valve is completely closed as shown in FIG. 1. This provides the proper throttle opening for the prevailing engine temperature. The choke valve "A" is held in closed position during the cranking period by the tension of the thermostat "B."

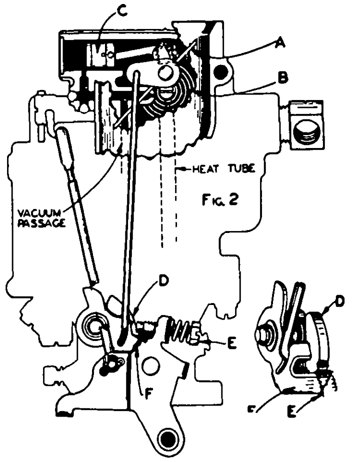


Fig. 2

CHOKE PARTIALLY OPENED—ENGINE RUNNING—WARMING UP PERIOD—FIG. 2

When the engine begins to fire, the manifold vacuum thus created pulls the vacuum piston "C," opening the choke valve "A" against the tension of the thermostat "B." Sufficient air is thereby admitted to give a satisfactory running mixture. **When the engine continues to run, it is necessary to open the throttle slightly, which procedure ordinarily occurs when driving the car away. If the car is permitted to stand and idle, the throttle should be opened slightly and then allowed to return to slow idle position.** As the choke valve opening is increased, the fast idle cam "D" is allowed to revolve so that the throttle stop screw "E" comes to rest on a lower step when the throttle is opened and then permitted to close.

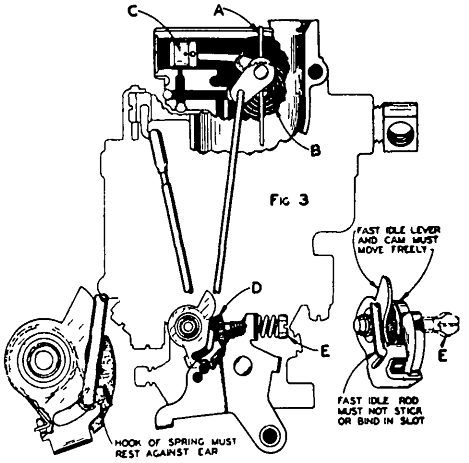

C
A
B
FAST IDLE LEVER AND CAM MUST MOVE FREELY
D
E
E
FAST IDLE ROD MUST NOT STICK OR BIND IN SLOT
HOOK OF SPRING MUST REST AGAINST EAR

Fig. 3

ENGINE WARM—CHOKE WIDE OPEN—SLOW IDLE—FIG. 3

While the engine continues to run, the amount that the choke valve is opened against the tension of the thermostat spring "A" is governed by the quantity of inrushing air past the off-center choke valve and the travel of the vacuum piston "C." Heat is transmitted into the thermostat chamber by hot air being drawn from the "stove" on the exhaust manifold. The thermostat gradually absorbs sufficient heat until it does not offer any further resistance to the choke valve opening. At the same time the fast idle cam "D" rotates until the throttle stop screw "E" is at normal idle position. FIG. 3 The throttle stop screw should be adjusted for a car speed of 7 to 8 miles per hour with the engine at normal operating temperature. NOTE The torsional spring of the fast idle loose lever has one end connected to the fast idle rod. When servicing, it is very essential that the bushing is placed on the rod after the rod is assembled in the lever. The hook of the spring should be assembled on the rod with the end of the hook butting against the ear of the lever as illustrated in FIG 3. It is also essential that the lever and cam move freely and that the rod does not stick or bind in the slot of the lever.

ADJUSTMENTS

NOTE—Gauges and drill sizes for various settings are listed on Cadillac pages of this Catalog which cover individual carburetor units.

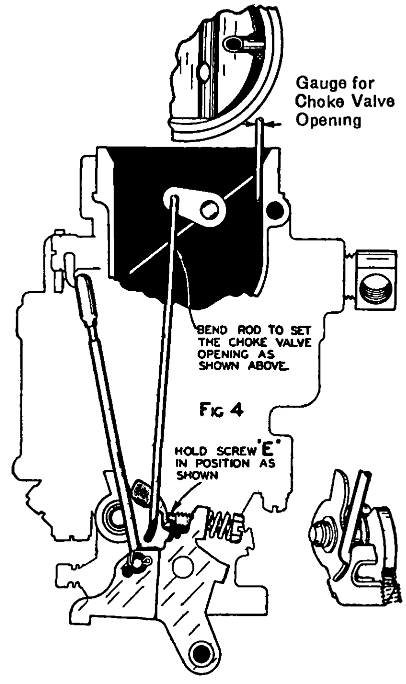

Gauge for Choke Valve Opening
BEND ROD TO SET THE CHOKE VALVE OPENING AS SHOWN ABOVE.
HOLD SCREW "E" IN POSITION AS SHOWN

FIG 4

SETTING A
CHECKING FAST IDLE ADJUSTMENT—FIG. 4

To check the fast idle setting of the carburetor, it is merely necessary to hold the stop screw "E" on the high lobe of the fast idle cam as illustrated in FIG. 4 Move the choke valve as far as possible to the closed position The opening that remains should be equivalent to a drill or gauge size specified on Page 1 Carburetor Page Form. If this amount of opening is not obtained, it is only necessary to slightly bend the fast idle rod at the point indicated in FIG. 4. Care should be taken so as not to cause a bind in the fast idle mechanism.

SETTING B
CHOKE RELEASE—FIG. 5

If for any reason the engine should become flooded, the choke valve can be partially opened by depressing the accelerator pedal to the full extent of its travel. This results in ear "G" of the throttle lever making contact with the fast idle loose lever, rotating it and forcing the choke valve partially open

With the throttle in the wide open position, the space between the top of the choke valve and the air horn should be gauged as specified on Carburetor Page in the Cadillac Section of this catalog If it is necessary to readjust this, it can be done by bending ear "G" to the desired position

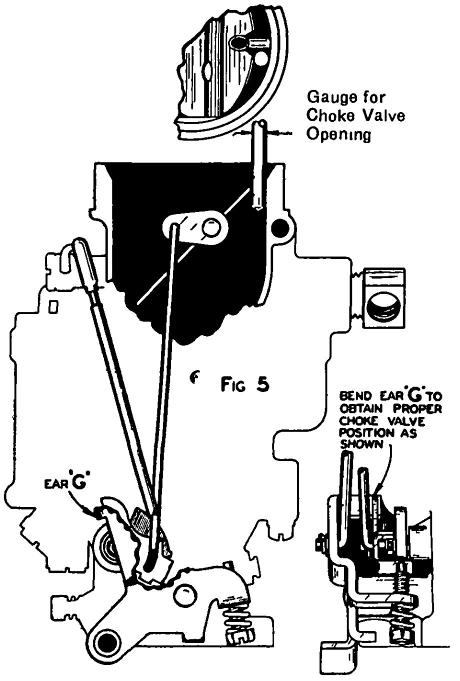

Gauge for Choke Valve Opening
D
F
BEND EAR "G" TO OBTAIN PROPER CHOKE VALVE POSITION AS SHOWN
EAR "G"

FIG 5

SERVICING

The automatic choke control is properly set at the factory. Under ordinary circumstances it will give many miles of satisfactory service. In the operation of an automatic choke control, the one point that must be borne in mind at all times is that all parts of the unit must operate freely and not stick or bind in any position of travel.

SETTING C

DISASSEMBLY

1. Disconnect the heat tube from the thermostat housing
2. Remove carburetor from manifold.
3. Remove thermostat cover screws and lug washers Thermostat cover assembly can then be taken off the choke housing.
4. Loosen locknut, removing lock washer and serrated washer
5. Remove vacuum piston assembly from housing
6. With a clean rag saturated with acetone or alcohol, thoroughly clean the cylinder walls of any dirt or other foreign material which may have accumulated in regular service. Use compressed air to blow out all of the channels The surface of the piston should also be thoroughly cleaned Do not use any abrasive materials for cleaning piston or cylinder.
7. Thoroughly clean the screen on the inside of the cover by blowing compressed air into the heat tube connection, and also between the screen and the cover, using precaution not to distort the screen

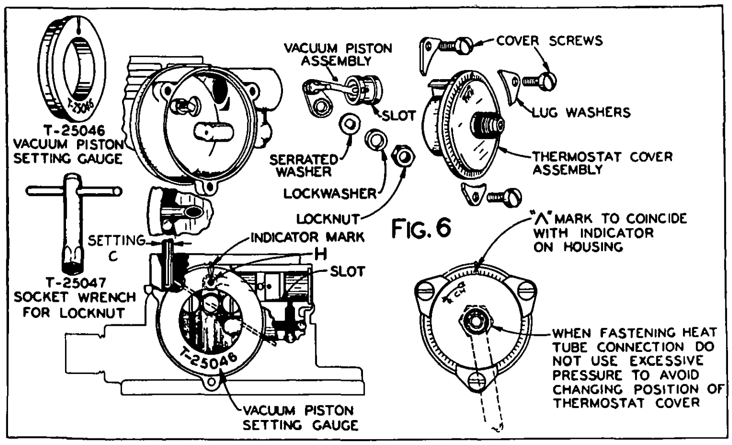

T-25046 VACUUM PISTON SETTING GAUGE
VACUUM PISTON ASSEMBLY
SLOT
SERRATED WASHER
LOCKWASHER
LOCKNUT
INDICATOR MARK
H
SLOT
SETTING C
T-25047 SOCKET WRENCH FOR LOCKNUT
T-25046
VACUUM PISTON SETTING GAUGE
COVER SCREWS
LUG WASHERS
THERMOSTAT COVER ASSEMBLY
"Λ" MARK TO COINCIDE WITH INDICATOR ON HOUSING
WHEN FASTENING HEAT TUBE CONNECTION DO NOT USE EXCESSIVE PRESSURE TO AVOID CHANGING POSITION OF THERMOSTAT COVER

FIG. 6

REASSEMBLY

1. Place vacuum piston in cylinder with slot on piston assembled **DOWN. THIS IS VERY IMPORTANT, ALSO DO NOT USE ANY TYPE OF LUBRICANT ON PISTON OR IN CYLINDER.** Assemble lever onto choke stem. Next assemble serrated washer, lockwasher, and locknut, fastening the nut **merely by hand.**
2. Referring to FIG. 6, place tool **T-25046** on choke housing with the small hole (H) fitting over the pin of the choke lever. The indication line at the outer diameter of the tool should be set to line up with the projection on the choke housing The tool should be held in this position by hand or two of the cover screws and lug washers can be used to do this.
3. Place Gauge, size as specified on Carburetor Page of Cadillac Section of this catalog, between the choke valve and the air horn as illustrated in FIG. 6. Tighten locknut lightly with tool **T-25047.**
4. Remove tool **T-25046.** Hold choke valve in closed position and tighten locknut securely. CHECK CHOKE VALVE OPENING to be certain the setting wasn't disturbed Do not endeavor to change position of serrated washer or piston lever without loosening locknut.

THERMOSTAT SETTING

The thermostat is calibrated and properly set at the factory to give satisfactory performance with the regular blends of gasoline When placing the thermostat cover assembly on the housing, use precaution that the edge of the screen is not crimped or creased to cause a leak. Locate the thermostat hook at the bottom of the housing and then rotate the cover in the "RICH" direction until the "Λ" mark coincides with the projection on the housing This procedure is recommended to make certain that the thermostat hook contacts the pin on the choke lever Place the lugs in position and fasten the cover screws securely. If extremely high volatile fuel is continuously used or if some exceptional condition is encountered, it may be desirable to slightly vary the adjustment of the cover to obtain the best possible performance **Do not, however, vary the adjustment more than two graduations in either direction.** The thermostat need not be changed unless some part of the assembly has been tampered with or is damaged In such cases it is necessary to replace the entire assembly. **NOTE:** When assembling heat tube connection nut onto thermostat cover, do not use excessive pressure in order to avoid changing the position of the cover.

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STROMBERG AAV-26 CARBURETOR

STROMBERG NO 380063 (CODE NO 20S 10A) CADILLAC SYMBOL NO 1444606

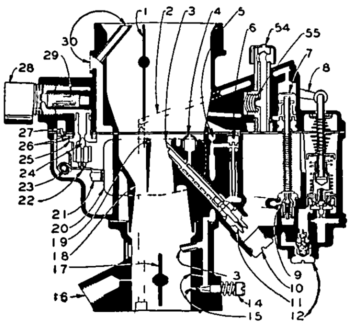
SIZE 1-1/4 DUAL D D 4 HOLE FLANGE

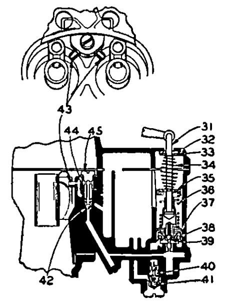
1942
CADILLAC

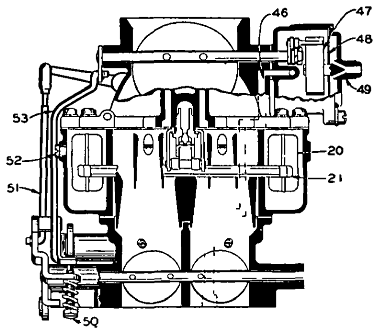
MODELS
60, 61, 62, 65, 67, 75
3-1/2″ x 4-1/2″—8 cyl.

PARTS ILLUSTRATED

1 Choke Valve
2 Power Vac Passage
3 Main Disch Jet
4 High Speed Bleeder
5 Idle Air Bleed
6 Idle Tube
7 Vac Power Piston
8 Pump Fulcrum Arm
9 Power By Pass Jet
10 Main Disch Jet Plug
11 Metering Jet
12 Check Valve Plug
13 Sec Idle Air Bleed
14 Idle Needle Valve
16 Vac Spark Conn
17 Throttle Valve
18 Primary Venturi
19 Auxiliary Venturi
20 Float
21 Float Lever
22 Float Needle Valve Clip
23 Float Fulcrum Pin
24 Float Needle Valve
25 Float Needle Valve Seat
26 Float Hanger Gasket
27 Float Hanger







28 Gasoline Inlet
29 Gasoline Strainer
30 Float Chamber Vent
31 Pump Link
32 Felt Dust Washer
33 Retainer Washer
34 Dust Washer Spring
35 Spring Retainer Washer
36 Pump Duration Spring
37 Pump Piston
38 Pump Leather Exp Spring
39 Pump Relief Valve
40 Check Valve
41 Check Valve Strainer
42 Pump Channel Ball Check
43 Pump Disch Nozzle
44 Pump Disch Restriction
45 Pump Nozzle Screw
46 Auto Choke Vac Passage
47 Thermostat
48 Screen
49 Hot Air Tube Conn
50 Throttle Stop Screw
51 Pump Rod
52 Fuel Level Sight Plug
53 Fast Idle Rod
54 Float Chamber Vent
55 Drain Connection

Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **5/8″** below top surface of float chamber (without gasket) or level with bottom of level sight hole at 5 lbs pressure To correct fuel level, hold air horn in inverted position Place **Tool T-24971** on gasket Tops of floats should be **1/64″** above tops of vertical guides which will give approximate fuel level, change if necessary Sides of floats should be parallel to guides of tool without drag

MAIN METERING SYSTEM — Venturi **1-1/8″**; Main Discharge Jet **No. 32** P-23567 (**Tool T-24967**); High Speed Bleeder **No. 70** P 23985 Main Metering Jet **.048″** P-19442 (**Tool T-24924**); Use **Tool T-19099** Screwdriver for removing main jet plug Main metering system controls the flow of fuel up to approximately 65 to 70 M P H

POWER SYSTEM—Power By Pass Jet **No. 53** P 24064 Power jet to come into operation at **5″ to 6″** of manifold vacuum, which is approximately 65 to 70 M P H (**Tool T-24733**) used to remove vacuum power piston

ACCELERATION—Pump Discharge Nozzles **No. 68** P-24594 Pump capacity **13** to **17** c c per 10 fast strokes, and **18** to **22** c c per 10 slow strokes with pump rod link set in minimum setting (**Tool T-24972**) Pump action takes place during acceleration period only.

IDLE SYSTEM—Idle Discharge holes **Nos. 52-56.** With throttle valve fully closed and **No. 56** drill in idle hole edge of valve is located **.040″** + — **.004″** from **No. 56** drill Idle Air Bleed **No. 36** P 23658 (in Throttle body), **No. 52** in Main body, Idle Tube **No. 66** 382933 Adjustment Adjust to smooth running one barrel at a time, OUT to make richer and IN to make leaner, throttle at 7 to 8 M P H

VACUUM SPARK CONTROL—With throttle fully closed and **No. 58** drill in spark hole, edge of valve is located **.012″** + — **.004″** from **No. 58** drill

AUTOMATIC CHOKE AND THERMOSTAT SETTINGS—See automatic choke control, operation and adjustment form 10C 714 Cadillac section of this catalog

SETTING A—No 32 Drill
SETTING B—11/64″ Dia Drill, Tool T 25057
SETTING C—No 1 Drill

THERMOSTAT COVER ASSY.—Identification Mark No 13 (See Parts Page Key No 86)

FLANGE GASKET—382574

SPECIAL TOOLS mentioned above contained in Tool Kit SER-459. See Form 10-265A.

MOTOR TUNE-UP DATA

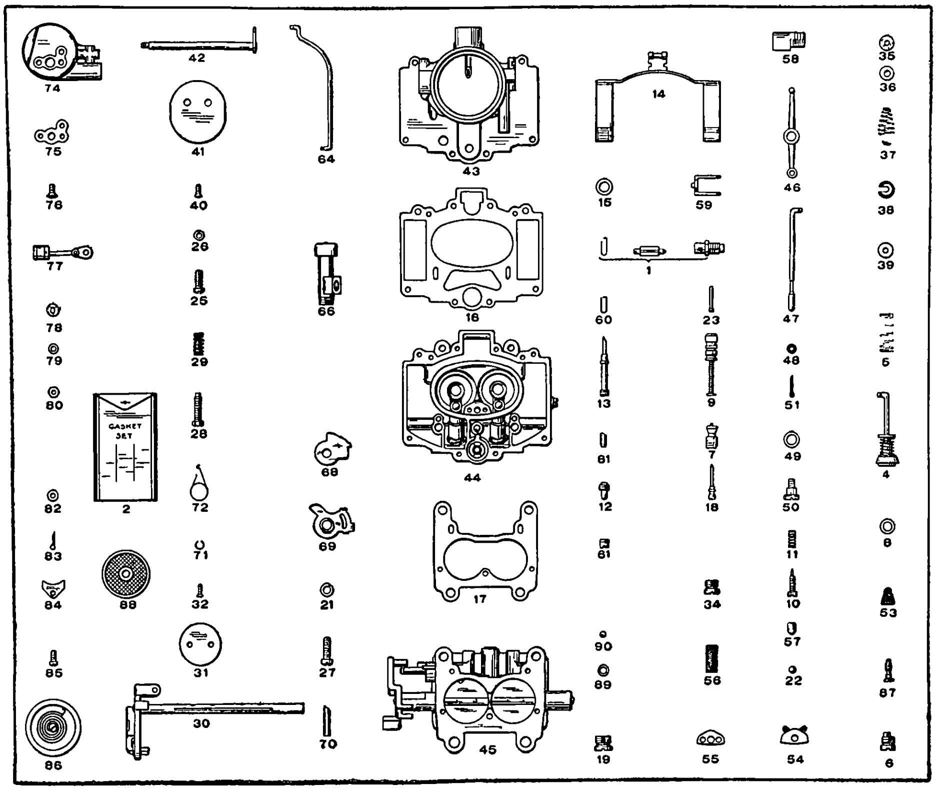
SPARK PLUG—.025″ to .030″.
Clean and adjust at regular intervals.

DISTRIBUTOR—
Breaker gap set .0125″ to .0175″.
Replace if necessary.

IGNITION TIMING—Breaker contacts to open for No. 1 cylinder when mark IGA on harmonic balancer is 5° B.T.D.C.

VALVES—Intake, Exhaust—Automatic take-up.

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.



SERVICE REPLACEMENT PARTS LIST

Repair Parts Kit No. 125

Bin Location	Key No	Part No.	Part Name
	1	P-22499	Float Needle Valve Clip & Seat 101 (NOT VAR)
	2	382393	Complete Gasket Set
	* 4	383036	Pump Piston Link and Spring (Complete)
	5	P-22870	Spring—Pump Duration
	6	P-18144	Pump Inlet Check Valve
	7	P-24064	Power By Pass Jet No 53 (NOT VAR)
	8	P-19448	Gasket—By Pass Jet
	9	P-22803	Vacuum Power Piston
	10	P-15478	Idle Needle Valve
	11	P-18710	Spring—Idle Needle Valve
	12	P-19442	Metering Jet— 048′ (VAR)
	13	P-23567	Main Discharge Jet No 32 (NOT VAR)
	*14	382937	Float with Lever
	15	P-2885	Gasket—Float Needle Valve Seat
	16	382255	Gasket—Air Horn
	17	P-24735	Gasket—Main Body
	18	382933	Idle Tube
	19	P-23902	Plug—Main Discharge Jet
	21	P-3157	Lockwasher—Main Body Attach Screw
	22	P-18772	Lead Ball
	23	P-22439	Fulcrum Pin—Float Lever
	25	P-2475	Screw—Air Horn Attaching
	26	P-6668	Lockwasher—Air Horn Attach Screw
	27	P-709	Screw—Main Body Attaching
	28	P-19103	Screw—Idle Adj
	29	P-15831	Spring—Idle Adj Screw
	*30	382959	Throttle Lever and Stem
	31	P-24172	Throttle Valve (5°) (NOT VAR)
	32	P-23956	Screw—Throttle Valve Attach
	34	P-24678	Plug—Check Valve
	35	P-17380	Washer—Felt
	36	P-17060	Washer—Splash—Pump Link
	37	P-22643	Spring—Packing Retainer
	38	P-22045	Washer—Cup
	39	P-22046	Washer—Spring Retainer
	40	P-4522	Screw—Choke Valve Attach
	41	P-24000	Choke Valve
	42	P-23959	Choke Stem and Lever
	43	382449	Assy —Air Horn
	*44	383034	Assy —Main Body **1-1/8** Venturi (Complete with **No 70** H S Bleeder **No 52** Idle Air Bleeder (VAR)
	*45	382960	Assy —Throttle Body **No 52-56** Idle Disch Holes **No 36** Idle Air Bleed (VAR)
	46	P-22430	Pump Lever
	47	P-22620	Pump Rod
	48	P-9394	Washer—Pump Rod
	49	P-19820	Spring—Washer—Pump Lever Fulcrum Screw
	50	P-20611	Fulcrum Screw—Pump Lever
	51	P-7170	Cotter Pin—Pump Rod and Pump Link
	53	P-23858	Strainer—Pump Check Valve
	54	P 24594	Pump Disch Nozzle **No** 68 (VAR)
	55	P-24668	Gasket—Pump Disch Nozzle
	56	P-23912	Strainer—Gasoline
	57	P-23985	High Speed Bleeder No 70 (NOT VAR)
	58	P-23911	Elbow—Gas Connection
	59	382940	Float Hanger
	60	P 22523	Clip—Float Needle Valve
	61	P-6406	Plug—Fuel Level Sight
	62	P-23507	Plug—Idle Discharge Drilling Hole (Not Illustrated)
	64	P-23991	Fast Idle Rod
	66	P-23879	Vent Stack (Float Cover)
	68	382292	Fast Idle Cam
	69	P-23995	Fast Idle Cam Lever
	70	P-23458	Vent Tube (Air Horn)
	71	P-23974	Snap Ring—Fast Idle Çam
	*72	382936	Spring—Fast Idle Cam
	*74	382943	Assy —Auto Choke Housing
	75	P-23297	Gasket—Auto Choke Housing
	76	P-23918	Screw—Auto Choke Housing Attach
	77	P-23919	Vacuum Piston with Link and Lever
	78	P-23933	Washer—Thermostat Lever Adj
	79	P-15875	Lockwasher—Vac Piston and Link Attach Nut
	80	P-16571	Nut—Vac Piston and Link Attach
	81	P-23658	Idle Air Bleeder No 36 (NOT VAR)
	82	P-24088	Spacer—Fast Idle Cam Spring
	83	P-19374	Cotter Pin—Fast Idle Rod
	84	P-23932	Washer—Therm Cover Assy Attach Screw
	85	P-2866	Screw—Therm Cover Assy Attach
	‡86	382294	Thermostat Cover and Screen
	87	P-24669	Screw—Pump Discharge Nozzle Attach
	88	P-23927	Screen—Thermostat Cover
	89	P-17063	Gasket—Pump Disch Nozzle Attach Screw
	90	P-17030	Ball—Pump Disch Channel Check Valve

*Indicates New Part

‡On Carburetors with Code No 205 10 Thermostat Identified by No 19 Set 2 Notches Rich

NOTE—For Parts Marked (VAR) Size Must be Specified when Ordering

BENDIX PRODUCTS DIVISION
SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

STROMBERG AAV-26 CARBURETOR

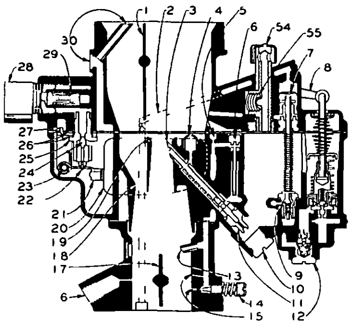
STROMBERG NO 380015 (CODE NO 205-8) CADILLAC SYMBOL NO 1441513

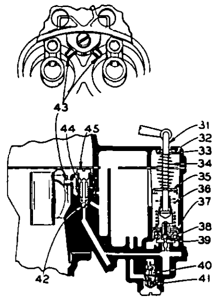
SIZE 1-1/4′ DUAL D D 4-HOLE FLANGE

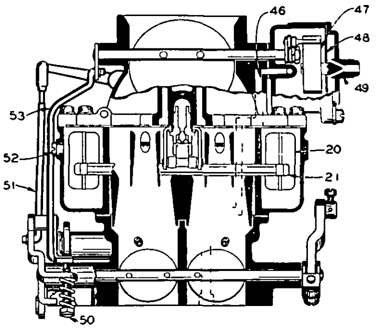
1941 CADILLAC

MODELS
41-60, 41-62, 41-67, 41-72
3-1/2″ x 4-1/2″—8 cyl

PARTS ILLUSTRATED







1	Choke Valve
2	Power Vac Passage
3	Main Disch Jet
4	High Speed Bleeder
5	Idle Air Bleed
6	Idle Tube
7	Vac Power Piston
8	Pump Fulcrum Arm
9	Power By Pass Jet
10	Main Disch Jet Plug
11	Metering Jet
12	Check Valve Plug
13	Sec Idle Air Bleed
14	Idle Needle Valve
16	Vac Spark Conn
17	Throttle Valve
18	Primary Venturi
19	Auxiliary Venturi
20	Float
21	Float Lever
22	Float Needle Valve Clip
23	Float Fulcrum Pin
24	Float Needle Valve
25	Float Needle Valve Seat
26	Float Hanger Gasket
27	Float Hanger
28	Gasoline Inlet
29	Gasoline Strainer
30	Float Chamber Vent
31	Pump Link
32	Felt Dust Washer
33	Retainer Washer
34	Dust Washer Spring
35	Spring Retainer Washer
36	Pump Duration Spring
37	Pump Piston
38	Pump Leather Exp Spring
39	Pump Relief Valve
40	Check Valve
41	Check Valve Strainer
42	Pump Channel Ball Check
43	Pump Disch Nozzle
44	Pump Disch Restriction
45	Pump Nozzle Screw
46	Auto Choke Vac Passage
47	Thermostat
48	Screen
49	Hot Air Tube Conn
50	Throttle Stop Screw
51	Pump Rod
52	Fuel Level Sight Plug
53	Fast Idle Rod
54	Float Chamber Vent
55	Drain Connection

Note—Specifications below are for latest production; previous major changes listed on parts page.

FUEL LEVEL—Measure **5/8″** below top surface of float chamber (without gasket) or level with bottom of level sight hole at 5 lbs pressure To correct fuel level, hold air horn in inverted position Place **Tool T-24971** on gasket Tops of floats should be **5/64″** above tops of vertical guides, which will give approximate fuel level, change if necessary Sides of floats should be tangent to guides of tool without drag

MAIN METERING SYSTEM—Venturi **1-1/8″**; Main Discharge Jet **No. 32** P 23567 (**Tool T-24967**); High Speed Bleeder **No. 70** P 23985 Main Metering Jet **.050″** P-19442 (**Tool T-24924**); Use **Tool T-19099** Screwdriver for removing main jet plug Main metering system controls the flow of fuel up to approximately 65 to 70 M P H

POWER SYSTEM—Power By-Pass Jet **No. 53** P 24064′ Power jet to come into operation at **5″ to 6″** of manifold vacuum, which is approximately 65 to 70 M P H (**Tool T-24733**) used to remove vacuum power piston

ACCELERATION—Pump Discharge Nozzles **No. 68** P-24594 Pump capacity **13** to **17** c c per 10 fast strokes, and **18** to **22** c c per 10 slow strokes with pump rod link set in minimum setting (**Tool T-24972**) Pump action takes place during acceleration period only

IDLE SYSTEM—Idle Discharge holes **Nos. 52-56.** With throttle valve fully closed and **No. 56** drill in idle hole, edge of valve is located **.040″ + — .004″** from **No. 56** drill, Idle Air Bleed **No. 36** P 23658 (in Throttle body), **No. 52** in Main body, Idle Tube **No. 66** P-23527 Adjustment Adjust to smooth running one barrel at a time, OUT to make richer and IN to make leaner, throttle at 7 to 8 M P H

VACUUM SPARK CONTROL—With throttle fully closed and **No. 58** drill in spark hole, edge of valve is located **.012″ + — .004″** from **No. 58** drill

FLANGE GASKET—382574

SPECIAL TOOLS REQUIRED—Use Cadillac complete Tool Kit **SER-361** T-24733 Power piston wrench T-24967 Main Discharge Jet Remover, T-24924 Main Metering Jet Wrench, T-24970 By Pass Jet and Check Valve Tester, T-24972 Pump Capacity Burrette Gauge, T-24968 Handle T-19099 Main jet plug screwdriver, T-24971 Float Gauge, T-25056 Auto-Choke Step Gauge, P 25046 Choke Gauge, T-25047 Choke Lever Lock Nut Wrench

MOTOR TUNE-UP DATA

SPARK PLUG—.025″ to 030″.
Clean and adjust at regular intervals.

DISTRIBUTOR—
Breaker gap set .0125″ to .0175″.
Replace if necessary.

IGNITION TIMING—Breaker contacts to open for No. 1 cylinder when mark IGA on harmonic balancer is 5° B T.D.C.

VALVES—Intake, Exhaust—Automatic take-up.

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

Printed in U S A

AUTOMATIC CHOKE CONTROL

GENERAL DESCRIPTION

The automatic choke control is built into a housing integral with the carburetor. The principles used in the operation of the automatic choke are manifold vacuum, thermostat spring, and an offset choke valve in the carburetor The vacuum piston and thermostat are directly connected to the carburetor choke valve and accurately control the opening and closing of the choke valve under varying operating temperatures and at various throttle positions A tube leading from the exhaust manifold to the thermostat chamber transmits heat to govern the tension of the thermostat spring A fast idle cam operating in conjunction with the automatic choke provides the proper throttle opening for a cold engine and thereby prevents the engine from stalling during the warming up period.

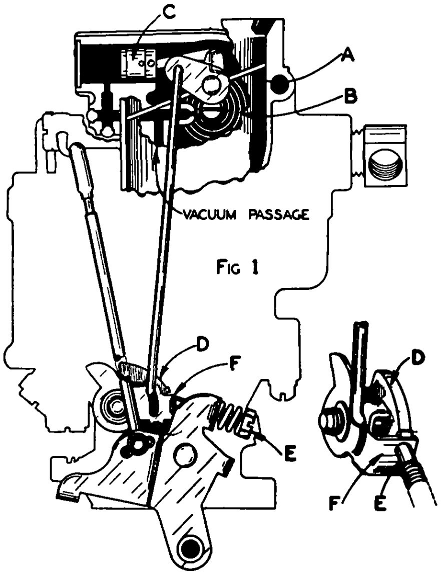


Fig 1

OPERATION AND ADJUSTMENTS

CHOKE CLOSED—FAST IDLE—COLD ENGINE—FIG. 1

When the engine becomes cold, the thermostat "B" also cools and gradually gains tension The thermostat is unable to close the choke valve "A" until the throttle is opened **It is therefore necessary to depress the accelerator pedal slightly and then allow it to return to normal position before making a start.** Opening the throttle in this manner permits the throttle stop screw "E" to be moved away from the fast idle cam "D" This allows the choke valve to close in accordance with the thermostat tension The throttle stop screw then comes to rest on a higher lobe of the fast idle cam or on the ear of the loose lever "F" if the choke valve is completely closed as shown in FIG 1 This provides the proper throttle opening for the prevailing engine temperature The choke valve "A" is held in close position during the cranking period by the tension of the thermostat "B"

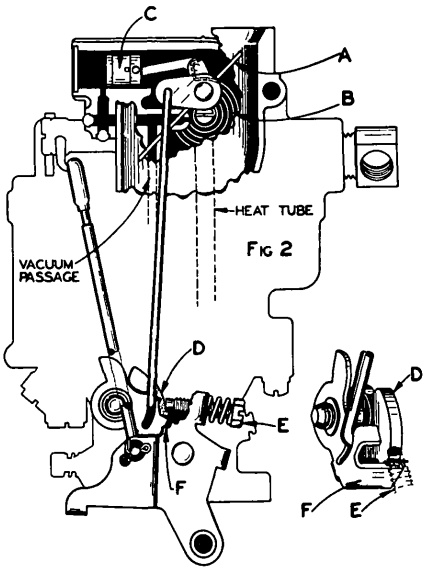


Fig 2

CHOKE PARTIALLY OPENED—ENGINE RUNNING—WARMING UP PERIOD—FIG. 2

When the engine begins to fire the manifold vacuum thus created pulls the vacuum piston "C," opening the choke valve "A" against the tension of the thermostat "B" Sufficient air is thereby admitted to give a satisfactory running mixture **When the engine continues to run, it is necessary to open the throttle slightly, which procedure ordinarily occurs when driving the car away. If the car is permitted to stand and idle, the throttle should be opened slightly and then allowed to return to slow idle position.** As the choke valve opening is increased the fast idle cam "D" is allowed to revolve so that the throttle stop screw "E" comes to rest on a lower step when the throttle is opened and then permitted to close

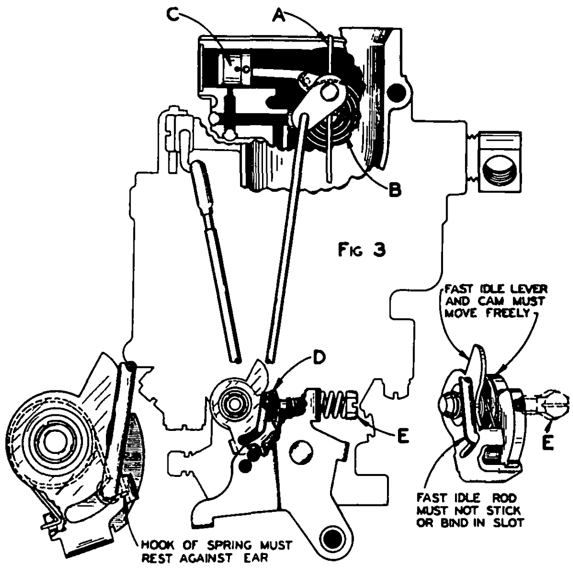


Fig 3

FAST IDLE LEVER AND CAM MUST MOVE FREELY

FAST IDLE ROD MUST NOT STICK OR BIND IN SLOT

HOOK OF SPRING MUST REST AGAINST EAR

ENGINE WARM—CHOKE WIDE OPEN—SLOW IDLE—FIG. 3

While the engine continues to run, the amount that the choke valve is opened against the tension of the thermostat spring "A" is governed by the quantity of in rushing air past the off center choke valve and the travel of the vacuum piston "C" Heat is transmitted into the thermostat chamber by hot air being drawn from the "stove" on the exhaust manifold The thermostat gradually absorbs sufficient heat until it does not offer any further resistance to the choke valve opening At the same time the fast idle cam "D" rotates until the throttle stop screw "E" is at normal idle position FIG 3 The throttle stop screw should be adjusted for a car speed of 7 to 8 miles per hour with the engine at normal operating temperature NOTE The torsional spring of the fast idle loose lever has one end connected to the fast idle rod When servicing it is very essential that the bushing is placed on the rod after the rod is assembled in the lever The hook of the spring should be assembled on the rod with the end of the hook butting against the ear of the lever as illustrated in FIG 3 It is also essential that the lever and cam move freely and that the rod does not stick or bind in the slot of the lever

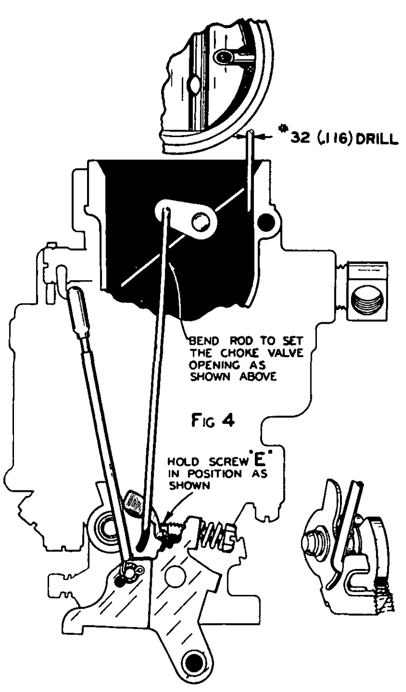

*32 (.116) DRILL
BEND ROD TO SET THE CHOKE VALVE OPENING AS SHOWN ABOVE
HOLD SCREW "E" IN POSITION AS SHOWN

Fig 4

CHECKING FAST IDLE ADJUSTMENT—FIG. 4

To check the fast idle setting of the carburetor, it is merely necessary to hold the stop screw "E" on the high lobe of the fast idle cam as illustrated in FIG 4 Move the choke valve as far as possible to the closed position The opening that remains should be equivalent to a **No. 32 drill (.116")**. If this amount of opening is not obtained, it is only necessary to slightly bend the fast idle rod at the point indicated in FIG 4 Care should be taken so as not to cause a bind in the fast idle mechanism

CHOKE RELEASE—FIG. 5

If for any reason the engine should become flooded, the choke valve can be partially opened by depressing the accelerator pedal to the full extent of its travel This results in ear "G" of the throttle lever making contact with the fast idle loose lever, rotating it and forcing the choke valve partially open

With the throttle in the wide open position, the space between the top of the choke valve and the air horn should be between 156" and 187" This can be measured by placing a drill of **11/64"** diameter between the valve and the air horn If it is necessary to readjust this, it can be done by bending ear "G" to the desired position **Tool T-25056** choke valve setting gauge is recommended instead of using drills

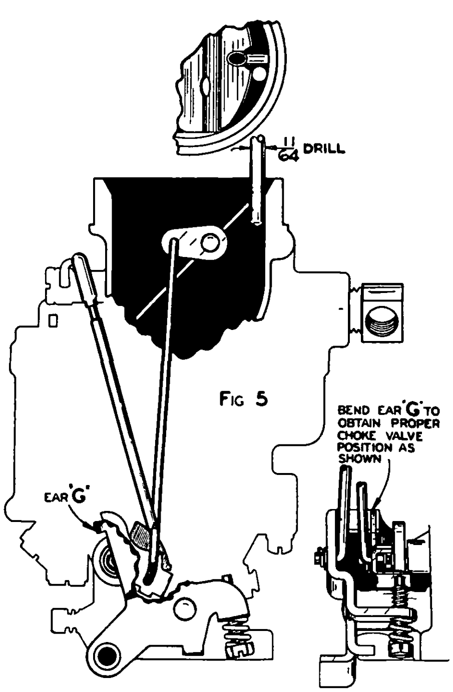


Fig 5

SERVICING THE AUTOMATIC CHOKE CONTROL

The automatic choke control is properly set at the factory Under ordinary circumstances it will give many miles of satisfactory service In the operation of an automatic choke control, the one point that must be borne in mind at all times is that all parts of the unit must operate freely and not stick or bind in any position of travel

DISASSEMBLY

1 Disconnect the heat tube from the thermostat housing
2 Remove carburetor from manifold
3 Remove thermostat cover screws and lug washers Thermostat cover assembly can then be taken off the choke housing.
4 Loosen locknut, removing lock washer and serrated washer.
5 Remove vacuum piston assembly from housing
6 With a clean rag saturated with acetone or alcohol, thoroughly clean the cylinder walls of any dirt or other foreign material which may have accumulated in regular service Use compressed air to blow out all of the channels. The surface of the piston should also be thoroughly cleaned Do not use any abrasive materials for cleaning piston or cylinder
7. Thoroughly clean the screen on the inside of the cover by blowing compressed air into the heat tube connection, and also between the screen and the cover, using precaution not to distort the screen

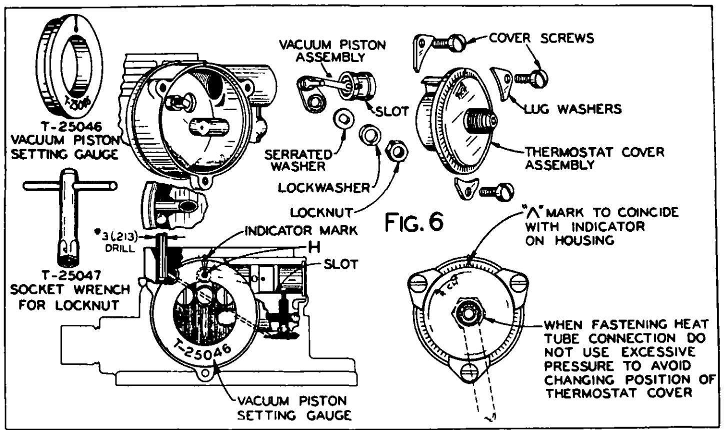

T-25046
VACUUM PISTON SETTING GAUGE
T-25046
T-25047
SOCKET WRENCH FOR LOCKNUT
*3 (.213) DRILL
VACUUM PISTON ASSEMBLY
SLOT
SERRATED WASHER
LOCKWASHER
LOCKNUT
INDICATOR MARK
H
SLOT
T-25046
VACUUM PISTON SETTING GAUGE
COVER SCREWS
LUG WASHERS
THERMOSTAT COVER ASSEMBLY
"Λ" MARK TO COINCIDE WITH INDICATOR ON HOUSING
WHEN FASTENING HEAT TUBE CONNECTION DO NOT USE EXCESSIVE PRESSURE TO AVOID CHANGING POSITION OF THERMOSTAT COVER

FIG. 6

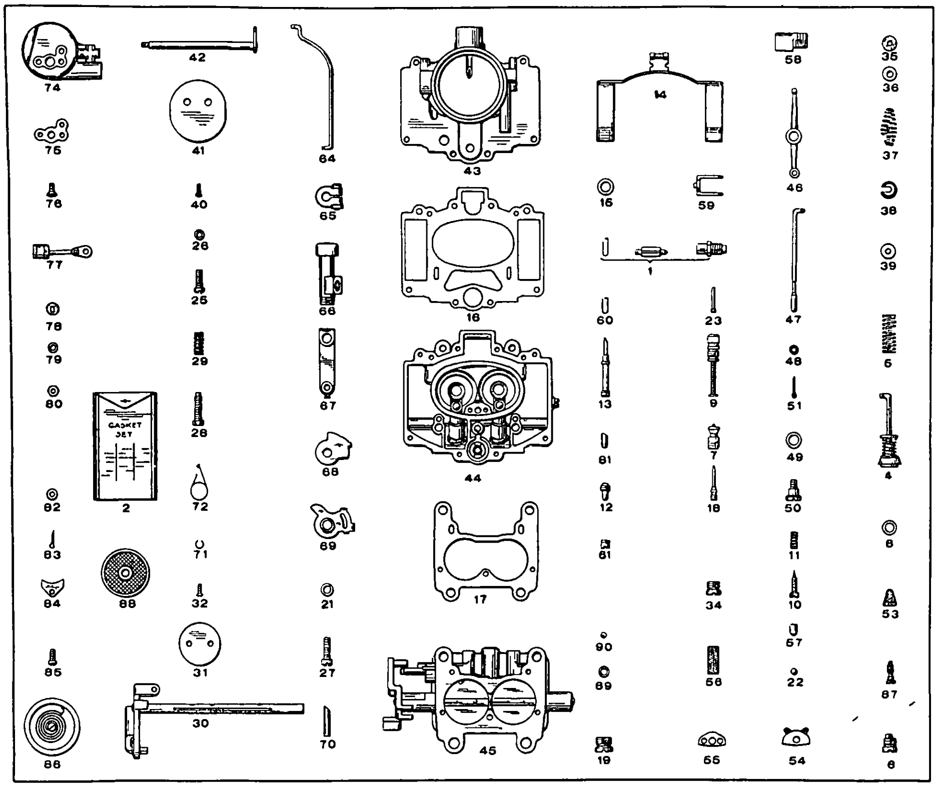
REASSEMBLY

1 Place vacuum piston in cylinder with slot on piston assembled **DOWN. THIS IS VERY IMPORTANT, ALSO DO NOT USE ANY TYPE OF LUBRICANT ON PISTON OR IN CYLINDER.** Assemble lever onto choke stem Next assemble serrated washer, lockwasher, and locknut, fastening the nut **merely by hand.**
2 Referring to FIG 6, place tool **T-25046** on choke housing with the small hole (H) fitting over the pin of the choke lever. The indication line at the outer diameter of the tool should be set to line up with the projection on the choke housing The tool should be held in this position by hand or two of the cover screws and lug washers can be used to do this
3. Holding choke valve against a **No. 3 drill (213.")** between the choke valve and the air horn as illustrated in FIG 6 Tighten locknut lightly with tool **T-25047.**
4 Remove tool **T-25046.** Hold choke valve in closed position and tighten locknut securely CHECK CHOKE VALVE OPENING to be certain the setting wasn't disturbed Do not endeavor to change position of serrated washer or piston lever without loosening locknut

THERMOSTAT SETTING

The thermostat is calibrated and properly set at the factory to give satisfactory performance with the regular blends of gasoline When placing the thermostat cover assembly on the housing, use precaution that the edge of the screen is not crimped or creased to cause a leak Locate the thermostat hook at the bottom of the housing and then rotate the cover in the "RICH" direction until the "Λ" mark coincides with the projection on the housing This procedure is recommended to make certain that the thermostat hook contacts the pin on the choke lever Place the lugs in position and fasten the cover screws securely If extremely high volatile fuel is continuously used or if some exceptional condition is encountered, it may be desirable to slightly vary the adjustment of the cover to obtain the best possible performance **Do not, however, vary the adjustment more than two graduations in either position.** The thermostat need not be changed unless some part of the assembly has been tampered with or is damaged In such cases it is necessary to replace the entire assembly **NOTE:** When assembling heat tube connection nut onto thermostat cover, do not use excessive pressure in order to avoid changing the position of the cover

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No	Part No	Part Name	
	1	**P-22499**	Float Needle Valve Clip & Seat 101	(**NOT VAR**)
	* 2	**382393**	Complete Gasket S	
	* 4	**382289**	Pump Piston Link and Spring (Complete)	
	* 5	**P-24575**	Spring—Pump Duration	
	6	**P-18144**	Pump Inlet Check Valve	
	7	**P-24064**	Power By Pass Jet No 53	(**NOT VAR**)
	8	**P-19448**	Gasket—By Pass Jet	
	9	**P-22803**	Vacuum Power Piston	
	10	**P-15478**	Idle Needle Valve	
	11	**P-18710**	Spring—Idle Needle Valve	
	12	**P-19442**	Metering Jet— **049″**	(**VAR**)
	13	**P-23567**	Main Discharge Jet No 32	(**NOT VAR**)
	*14	**P-24780**	Float with Lever	
	15	**P-2885**	Gasket—Float Needle Valve Seat	
	*16	**382255**	Gasket—Air Horn	
	17	**P-24735**	Gasket—Main Body	
	18	**P-23527**	Idle Tube	
	19	**P-23902**	Plug—Main Discharge Jet	
	21	**P-3157**	Lockwasher—Main Body Attach Screw	
	22	**P-18772**	Lead Ball	
	23	**P-22439**	Fulcrum Pin—Float Lever	
	25	**P-2475**	Screw—Air Horn Attaching	
	26	**P-6668**	Lockwasher—Air Horn Attach Screw	
	27	**P-709**	Screw—Main Body Attaching	
	28	**P-19103**	Screw—Idle Adj	
	29	**P-15831**	Spring—Idle Adj Screw	
	*30	**P-24747**	Throttle Lever and Stem	
	*31	**P-24172**	Throttle Valve (5°)	(**NOT VAR**)
	32	**P-23956**	Screw—Throttle Valve Attach	
	34	**P-24678**	Plug—Check Valve	
	35	**P-17380**	Washer—Felt	
	36	**P-17060**	Washer—Splash—Pump Link	
	37	**P-22643**	Spring—Packing Retainer	
	38	**P-22045**	Washer—Cup	
	39	**P-22046**	Washer—Spring Retainer	
	40	**P-4522**	Screw—Choke Valve Attach	
	41	**P-24000**	Choke Valve	
	42	**P-23959**	Choke Stem and Lever	
	*43	**382449**	Assy —Air Horn	
	*44	**382296**	Assy —Main Body **1-1/8″** Venturi (Complete with **No 70** H S Bleeder **No 52** Idle Air Bleeder Pump Discharge Nozzles)	(**VAR**)
	*45	**382297**	Assy —Throttle Body **No 52-56** Idle Disch Holes **No 36** Idle Air Bleed	(**VAR**)
	46	**P-22430**	Pump Lever	

NOTE—For Parts Marked (VAR) Size Must be Specified when Ordering.

Bin Location	Key No	Part No	Part Name	
	47	**P-22620**	Pump Rod	
	48	**P-9394**	Washer—Pump Rod	
	49	**P-19820**	Spring—Washer—Pump Lever Fulcrum Screw	
	50	**P-20611**	Fulcrum Screw—Pump Lever	
	51	**P-7170**	Cotter Pin—Pump Rod and Pump Link	
	53	**P-23898**	Strainer—Pump Check Valve	
	54	**P-24594**	Pump Disch Nozzle **No 68**	(**VAR**)
	55	**P-24688**	Gasket—Pump Disch Nozzle	
	56	**P-23912**	Strainer—Gasoline	
	57	**P-23985**	High Speed Bleeder No 70	(**NOT VAR**)
	58	**P-23911**	Elbow—Gas Connection	
	59	**P-22441**	Float Hanger	
	60	**P-22523**	Clip—Float Needle Valve	
	61	**P-6406**	Plug—Fuel Level Sight	
	62	**P-23507**	Plug—Idle Discharge Drilling Hole (Not Illustrated)	
	64	**P-23991**	Fast Idle Rod	
	65	**P-17287**	Assy —Loose Lever Stop	
		P-18769	Screw	
		P-18299	Nut	
	66	**P-22879**	Vent Stack (Float Cover)	
	67	**P-22557**	Loose Lever with Wire Conn and Screw	
		P-506	Screw—Wire Clamp	
	* 68	**382292**	Fast Idle Cam	
	69	**P-23995**	Fast Idle Cam Lever	
	70	**P-23458**	Vent Tube (Air Horn)	
	71	**P-23974**	Snap Ring—Fast Idle Cam	
	72	**P-23944**	Spring—Fast Idle Cam	
	*74	**P-24322**	Assy —Auto Choke Housing	
	75	**P-23297**	Gasket—Auto Choke Housing	
	76	**P-23918**	Screw—Auto Choke Housing Attach	
	77	**P-23919**	Vacuum Piston with Link and Lever	
	78	**P-23933**	Washer—Thermostat Lever Adj	
	79	**P-15875**	Lockwasher—Vac Piston and Link Attach Nut	
	80	**P-16571**	Nut—Vac Piston and Link Attach	
	81	**P-23536**	Idle Air Bleeder No 36	(**NOT VAR**)
	82	**P-24088**	Spacer—Fast Idle Cam Spring	
	83	**112-S-1**	Cotter Pin—Fast Idle Rod	
	84	**P-23932**	Washer—Therm Cover Assy Attach Screw	
	85	**P-2866**	Screw—Therm Cover Assy Attach	
	*86	**382294**	Thermostat Cover and Screen	
	87	**P-24669**	Screw—Pump Discharge Nozzle Attach	
	88	**P-23927**	Screen—Thermostat Cover	
	89	**P-17063**	Gasket—Pump Disch Nozzle Attach Screw	
	90	**P-17030**	Ball—Pump Disch Channel Check Valve	

*Indicates New Part.

BENDIX PRODUCTS DIVISION

SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

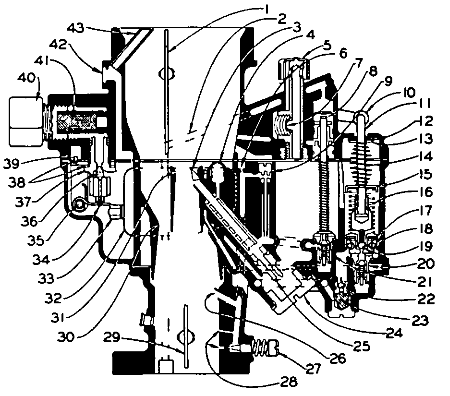
STROMBERG AAV-26 CARBURETOR

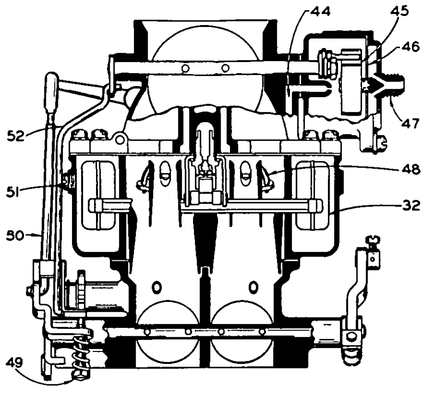
STROMBERG NO. A-19212 (CODE NO. 205-5A) CADILLAC SYMBOL NO 1437179

SIZE 1-1/4" DUAL D D. 4-HOLE FLANGE

1940 CADILLAC

MODELS
40-60 Special, 40-62,
40-72 40-75
3-1/2" x 4-1/2"—8 cyl.





PARTS ILLUSTRATED

1 Choke Valve
2 Power Vac Passage
3 Main Dis Jet
4 High Speed Bleeder
5 Float Chamber Vent
6 Idle Air Bleeder
7 Drain Connection
8 Vac Power Piston
9 Idle Tube
10 Pump Fulcrum Arm
11 Pump Piston Link
12 Felt Dust Washer
13 Retainer Washer
14 Dust Washer Spring
15 Spring Ret Washer
16 Pump Dur Spring
17 Pump Piston
18 Piston Expan Spring
19 Pump Relief Valve
20 Pump By Pass Jet
21 Power By Pass Jet
22 Pump Inlet Ck Val
23 Pump Inlet Strainer
24 Main Dis Jet Plug
25 Main Metering Jet
26 Sec Idle Air Bleed
27 Idle Needle Valve
28 Idle Dis Holes
29 Throttle Valve
30 Primary Venturi
31 Auxiliary Venturi
32 Float
33 Float Lever
34 Float Needle Valve Clip
35 Float Fulcrum Pin
36 Float Needle Valve
37 Float Needle Valve Seat
38 Float Hanger Gaskets
39 Float Hanger
40 Gasoline Inlet
41 Gasoline Strainer
42 External Float Chamber Vent
43 Ext Float Chamber Vent
44 Automatic Choke Vac Passage
45 Thermostat
46 Screen
47 Hot Air Tube Conn
48 Pump Dis Nozzle
49 Thro Stop Screw
50 Pump Rod
51 Fuel Level Sight Plug
52 Fast Idle Rod

Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **5/8"** below top surface of float chamber (without gasket) or level with bottom of level sight hole at 5 lbs pressure To correct fuel level, hold air horn in inverted position Place **Tool T-24971** on gasket Tops of floats should be **3/64"** above tops of vertical guides, which will give approximate fuel level, change if necessary Sides of floats should be tangent to guides of tool without drag

MAIN METERING SYSTEM — Venturi **1-1/8"**; Main Discharge Jet **No. 32** P-23567 (**Tool T-24967**); High Speed Bleeder **No. 70** P-23985 Main Metering Jet **.049"** P-19442 (**Tool T-24924**); Use **Tool T-19099** Screwdriver for removing main jet plug Main metering system controls the flow of fuel up to approximately 65 to 70 M P H

POWER SYSTEM—Power By-Pass Jet **No. 53** P-24064, Power jet to come into operation at **4" to 6"** of manifold vacuum, which is approximately 65 to 70 M P H (**Tool T-24733**) used to remove vacuum power piston

ACCELERATION—Pump Discharge Nozzles **No. 65** in main body, Pump By Pass Jet **No. 58** P-24744, Pump capacity **13** to **17** c c per 10 fast strokes, and **18** to **22** c c per 10 slow strokes with pump rod link set in minimum setting (**Tool T-24972**) Pump action takes place during acceleration period only.

IDLE SYSTEM—Idle Discharge holes **Nos. 52-56.** With throttle valve fully closed and **No. 56** drill in idle hole, edge of valve is located **.040" + — .004"** from **No. 56** drill, Idle Air Bleed **No. 36** P-23536 (in Throttle body), **No. 52** in Main body, Idle Tube **No. 64** P-24009 Adjustment Adjust to smooth running one barrel at a time, OUT to make richer and IN to make leaner, throttle at 7 to 8 M P H.

VACUUM SPARK CONTROL—With throttle fully closed and **No. 58** drill in spark hole, edge of valve is located **.012" + — .004"** from **No. 58** drill

FLANGE GASKET—P-18165

SPECIAL TOOLS REQUIRED—Use Cadillac complete Tool Kit **SER-361** T-24733 Power piston wrench T-24967 Main Discharge Jet Remover, T-24924 Main Metering Jet Wrench, T 24970 By-Pass Jet and Check Valve Tester, T-24972 Pump Capacity Burrette Gauge, T-24968 Handle T-19099 Main jet plug screwdriver, T-24971 Float Gauge; T 25056 Auto-Choke Step Gauge, T-25046 Choke Gauge T-25047 Choke Lever Lock Nut Wrench

MOTOR TUNE-UP DATA

SPARK PLUG—.025" to .030".
Clean and adjust at regular intervals.

DISTRIBUTOR—.0125" to .0175".
Breaker gap set .0125" to .0175".
Replace if necessary.

IGNITION TIMING—Breaker contacts to open for No. 1 cylinder when mark IG/A on harmonic balancer is in line with pointer.

VALVES—Intake, Exhaust.
Automatic take-up.

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

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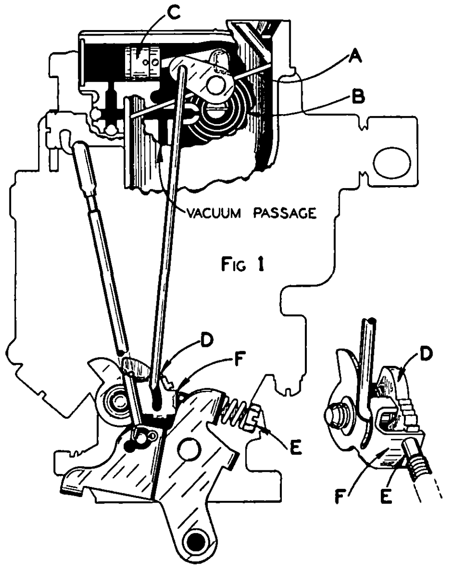


Fig 1

AUTOMATIC CHOKE CONTROL

GENERAL DESCRIPTION

The automatic choke control is built into a housing integral with the carburetor The principles used in the operation of the automatic choke are manifold vacuum, thermostat spring, and an offset choke valve in the carburetor. The vacuum piston and thermostat are directly connected to the carburetor choke valve and accurately control the opening and closing of the choke valve under varying operating temperatures and at various throttle positions A tube leading from the exhaust manifold to the thermostat chamber transmits heat to govern the tension of the thermostat spring. A fast idle cam operating in conjunction with the automatic choke provides the proper throttle opening for a cold engine and thereby prevents the engine from stalling during the warming-up period

OPERATION AND ADJUSTMENTS

CHOKE CLOSED—FAST IDLE—COLD ENGINE—FIG. 1

When the engine becomes cold, the thermostat "B" also cools and gradually gains tension The thermostat is unable to close the choke valve "A" until the throttle is opened **It is therefore necessary to depress the accelerator pedal slightly and then allow it to return to normal position before making a start.** Opening the throttle in this manner permits the throttle stop screw "E" to be moved away from the fast idle cam "D" This allows the choke valve to close in accordance with the thermostat tension The throttle stop screw then comes to rest on a higher lobe of the fast idle cam or on the ear of the loose lever "F" if the choke valve is completely closed as shown in Fig 1 This provides the proper throttle opening for the prevailing engine temperature The choke valve "A" is held in closed position during the cranking period by the tension of the thermostat "B"

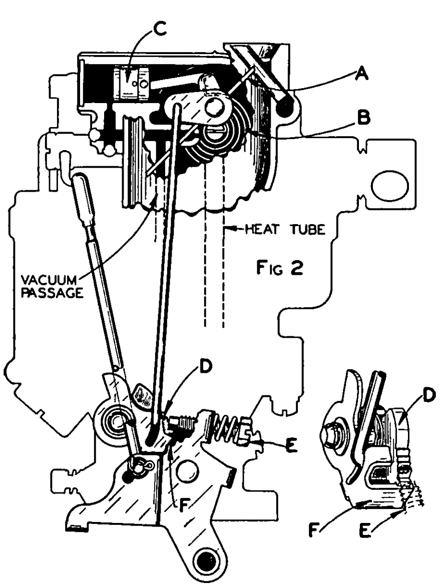


Fig 2

CHOKE PARTIALLY OPENED—ENGINE RUNNING—WARMING UP PERIOD—FIG. 2

When the engine begins to fire, the manifold vacuum thus created pulls the vacuum piston "C," opening the choke valve "A" against the tension of the thermostat "B" Sufficient air is thereby admitted to give a satisfactory running mixture **When the engine continues to run, it is necessary to open the throttle slightly, which procedure ordinarily occurs when driving the car away. If the car is permitted to stand and idle, the throttle should be opened slightly and then allowed to return to slow idle position.** As the choke valve opening is increased, the fast idle cam "D" is allowed to revolve so that the throttle stop screw "E" comes to rest on a lower step when the throttle is opened and then permitted to close

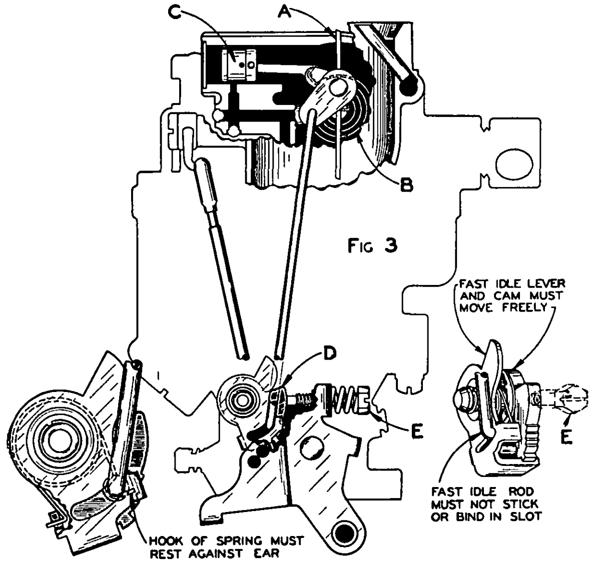

C
A
B
D
E
E
FAST IDLE LEVER AND CAM MUST MOVE FREELY
FAST IDLE ROD MUST NOT STICK OR BIND IN SLOT
HOOK OF SPRING MUST REST AGAINST EAR

Fig 3

ENGINE WARM—CHOKE WIDE OPEN—SLOW IDLE—FIG. 3

While the engine continues to run, the amount that the choke valve is opened against the tension of the thermostat spring "A" is governed by the quantity of inrushing air past the off center choke valve and the travel of the vacuum piston "C" Heat is transmitted into the thermostat chamber by hot air being drawn from the "stove" on the exhaust manifold The thermostat gradually absorbs sufficient heat until it does not offer any further resistance to the choke valve opening At the same time the fast idle cam "D" rotates until the throttle stop screw "E" is at normal idle position FIG. 3 The throttle stop screw should be adjusted for a car speed of 7 to 8 miles per hour with the engine at normal operating temperature NOTE The torsional spring of the fast idle loose lever has one end connected to the fast idle rod When servicing, it is very essential that the bushing is placed on the rod after the rod is assembled in the lever The hook of the spring should be assembled on the rod with the end of the hook butting against the ear of the lever as illustrated in FIG 3 It is also essential that the lever and cam move freely and that the rod does not stick or bind in the slot of the lever.

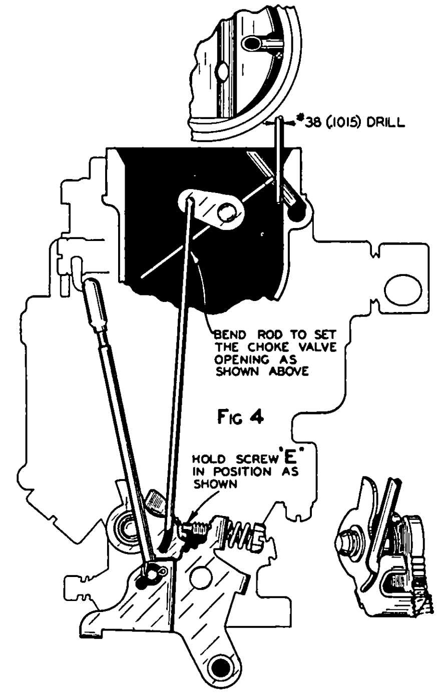

#38 (.1015) DRILL
BEND ROD TO SET THE CHOKE VALVE OPENING AS SHOWN ABOVE
HOLD SCREW "E" IN POSITION AS SHOWN

Fig 4

CHECKING FAST IDLE ADJUSTMENT—FIG. 4

To check the fast idle setting of the carburetor, it is merely necessary to hold the stop screw "E" on the high lobe of the fast idle cam as illustrated io FIG 4 Move the choke valve as far as possible to the closed position The opening that remains should be equivalent to a **No. 38 drill** (.102"). If this amount of opening is not obtained, it is only necessary to slightly bend the fast idle rod at the point indicated in FIG 4 Care should be taken so as not to cause a bind in the fast idle mechanism

CHOKE RELEASE—FIG. 5

If for any reason the engine should become flooded, the choke valve can be partially opened by depressing the accelerator pedal to the full extent of its travel This results in ear "G" of the throttle lever making contact with the fast idle loose lever, rotating it and forcing the choke valve partially open

With the throttle in the wide open position, the space between the top of the choke valve and the air horn should be between 156" and 187" This can be measured by placing a drill of **11/64"** diameter between the valve and the air horn If it is necessary to readjust this, it can be done by bending ear "G" to the desired position **Tool T-25056** choke valve setting gauge is recommended instead of using drills.

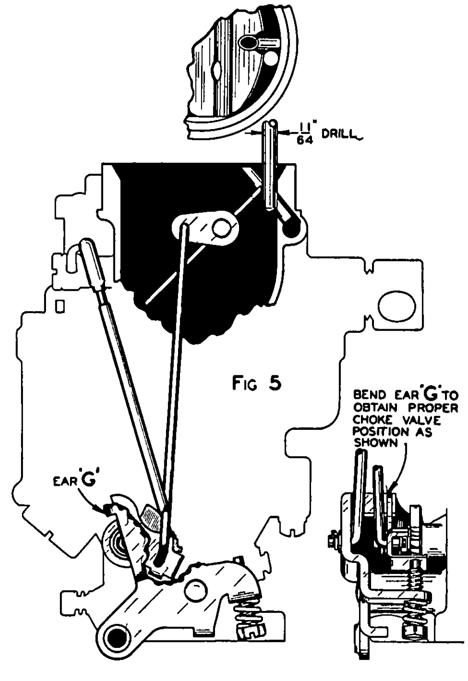


Fig 5

SERVICING THE AUTOMATIC CHOKE CONTROL

The automatic choke control is properly set at the factory Under ordinary circumstances it will give many miles of satisfactory service In the operation of an automatic choke control, the one point that must be borne in mind at all times is that all parts of the unit must operate freely and not stick or bind in any position of travel

DISASSEMBLY

1 Disconnect the heat tube from the thermostat housing
2. Remove carburetor from manifold
3 Remove thermostat cover screws and lug washers Thermostat cover assembly can then be taken off the choke housing
4 Loosen locknut, removing lock washer and serrated washer
5. Remove vacuum piston assembly from housing
6 With a clean rag saturated with acetone or alcohol, thoroughly clean the cylinder walls of any dirt or other foreign material which may have accumulated in regular service Use compressed air to blow out all of the channels The surface of the piston should also be thoroughly cleaned Do not use any abrasive materials for cleaning piston or cylinder
7 Thoroughly clean the screen on the inside of the cover by blowing compressed air into the heat tube connection, and also between the screen and the cover, using precaution not to distort the screen

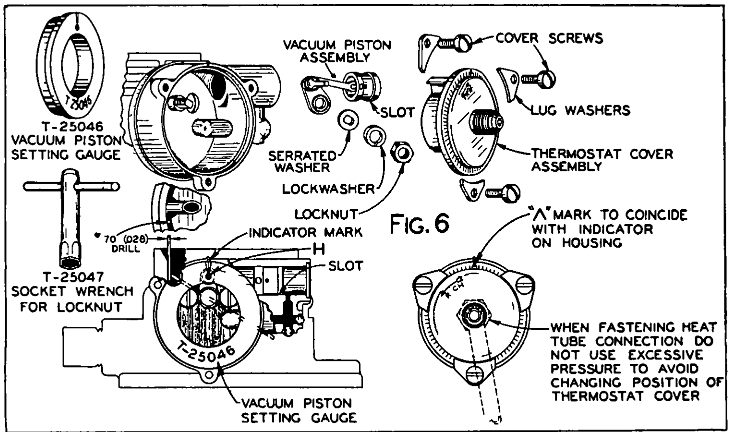

T-25046
T-25046 VACUUM PISTON SETTING GAUGE
T-25047 SOCKET WRENCH FOR LOCKNUT
VACUUM PISTON ASSEMBLY
SLOT
SERRATED WASHER
LOCKWASHER
LOCKNUT
#70 (028) DRILL
INDICATOR MARK
H
SLOT
T-25046
VACUUM PISTON SETTING GAUGE
COVER SCREWS
LUG WASHERS
THERMOSTAT COVER ASSEMBLY
"Λ" MARK TO COINCIDE WITH INDICATOR ON HOUSING
WHEN FASTENING HEAT TUBE CONNECTION DO NOT USE EXCESSIVE PRESSURE TO AVOID CHANGING POSITION OF THERMOSTAT COVER

FIG. 6

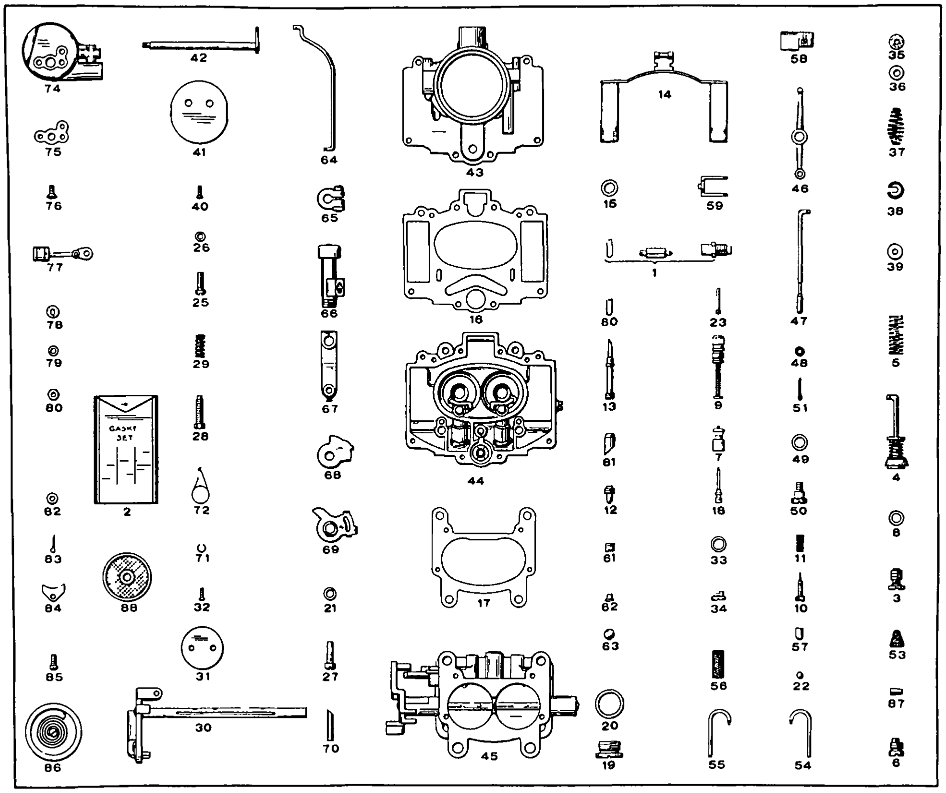
REASSEMBLY

1 Place vacuum piston in cylinder with slot on piston assembled **DOWN. THIS IS VERY IMPORTANT, ALSO DO NOT USE ANY TYPE OF LUBRICANT ON PISTON OR IN CYLINDER.** Assemble lever onto choke stem Next assemble serrated washer, lockwasher, and locknut, fastening the nut **merely by hand.**
2 Referring to FIG 6, place tool **T-25046** on choke housing with the small hole (H) fitting over the pin of the choke lever The indication line at the outer diameter of the tool should be set to line up with the projection on the choke housing The tool should be held in this position by hand or two of the cover screws and lug washers can be used to do this
3 Holding choke valve against a **No. 70 drill (.028)** between the choke valve and the air horn as illustrated in FIG 6 Tighten locknut lightly with tool **T-25047.**
4 Remove tool **T-25046.** Hold choke valve in closed position and tighten locknut securely CHECK CHOKE VALVE OPENING to be certain the setting wasn't disturbed Do not endeavor to change position of serrated washer or piston lever without loosening locknut

THERMOSTAT SETTING

The thermostat is calibrated and properly set at the factory to give satisfactory performance with the regular blends of gasoline When placing the thermostat cover assembly on the housing, use precaution that the edge of the screen is not crimped or creased to cause a leak Locate the thermostat hook at the bottom of the housing and then rotate the cover in the "RICH" direction until the "O" mark coincides with the projection on the housing This procedure is recommended to make certain that the thermostat hook contacts the pin on the choke lever Place the lugs in position and fasten the cover screws securely If extremely high volatile fuel is continuously used or if some exceptional condition is encountered it may be desirable to slightly vary the adjustment of the cover to obtain the best possible performance **Do not, however, vary the adjustment more than two graduations in either direction.** The thermostat need not be changed unless some part of the assembly has been tampered with or is damaged In such cases it is necessary to replace the entire assembly **NOTE:** When assembling heat tube connection nut onto thermostat cover, do not use excessive pressure in order to avoid changing the position of the cover

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No	Part No	Part Name	
	1	**P-22499**	Float Needle Valve Clip & Seat 101	**(NOT VAR)**
	2	**J-5421-G**	Complete Gasket Set	
	*3	**P-24744**	Pump By Pass Jet No 58	**(NOT VAR)**
	*4	**P-24746**	Pump Piston Link and Spring (Complete)	
	*5	**P-24575**	Spring—Pump Duration	
	6	**P-18144**	Pump Inlet Check Valve	
	7	**P-24064**	Power By Pass Jet No 53	**(NOT VAR)**
	8	**P-19448**	Gasket—By Pass Jet	
	9	**P-22803**	Vacuum Power Piston	
	10	**P-15478**	Idle Needle Valve	
	11	**P-18710**	Spring—Idle Needle Valve	
	12	**P-19442**	Metering Jet— **049″**	**(VAR)**
	13	**P-23567**	Main Discharge Jet No 32	**(NOT VAR)**
	*14	**P-24780**	Float with Lever	
	15	**P-2885**	Gasket—Float Needle Valve Seat	
	16	**P-22885**	Gasket—Air Horn	
	17	**P-23940**	Gasket—Main Body	
	18	**P-24009**	Idle Tube	
	19	**P-21767**	Plug—Main Discharge Jet	
	20	**P-22851**	Gasket—Main Discharge Jet Plug	
	21	**P-3157**	Lockwasher—Main Body Attach Screw	
	22	**P-18772**	Lead Ball	
	23	**P-22439**	Fulcrum Pin—Float Lever	
	25	**P-2475**	Screw—Air Horn Attaching	
	26	**P-6668**	Lockwasher—Air Horn Attach Screw	
	27	**P-709**	Screw—Main Body Attaching	
	28	**P-19103**	Screw—Idle Adj	
	29	**P-15831**	Spring—Idle Adj Screw	
	*30	**P-24747**	Throttle Lever and Stem	
	*31	**P-24172**	Throttle Valve (5°)	**(NOT VAR)**
	32	**P-23956**	Screw—Throttle Valve Attach	
	33	**P-7338**	Gasket—Check Valve Plug	
	34	**P-19716**	Plug—Check Valve	
	35	**P-17380**	Washer—Felt	
	36	**P-17060**	Washer—Splash—Pump Link	
	37	**P-22643**	Spring—Packing Retainer	
	38	**P-22045**	Washer—Cup	
	39	**P-22046**	Washer—Spring Retainer	
	40	**P-4522**	Screw—Choke Valve Attach	
	41	**P-24000**	Choke Valve	
	42	**P-23959**	Choke Stem and Lever	
	*43	**P-24316**	Assy —Air Horn	
	*44	**P-24764**	Assy —Main Body **1-1/8″** Venturi (Complete with **No 70** H S Bleeder **No 52** Idle Air Bleeder Pump Discharge Nozzles)	**VAR)**
	*45	**P-24765**	Assy —Throttle Body **No 52-56** Idle Disch Holes **No 36** Idle Air Bleed	**(VAR)**
	46	**P-22430**	Pump Lever	
	47	**P-22620**	Pump Rod	
	48	**P-9394**	Washer—Pump Rod	
	49	**P-19820**	Spring—Washer—Pump Lever Fulcrum Screw	
	50	**P-20611**	Fulcrum Screw—Pump Lever	
	51	**P-7170**	Cotter Pin—Pump Rod and Pump Link	
	53	**P-23858**	Strainer—Pump Check Valve	
	54	**P-23245**	Tube—Pump Disch No 65 (right)	**(NOT VAR)**
	55	**P-23246**	Tube—Pump Disch No 65 (left)	**(NOT VAR)**
	56	**P-23912**	Strainer—Gasoline	
	57	**P-23985**	High Speed Bleeder No 70	**(NOT VAR)**
	58	**P-23911**	Elbow—Gas Connection	
	59	**P-22441**	Float Hanger	
	60	**P-22523**	Clip—Float Needle Valve	
	61	**P-6406**	Plug—Fuel Level Sight	
	62	**P-15459**	Plug—Idle Discharge Hole—1/4″	
	63	**P-8495**	Plug—Expansion	
	64	**P-23991**	Fast Idle Rod	
	65	**P-17287**	Assy —Loose Lever Stop	
		P-18769	Screw	
		P-18299	Nut	
	66	**P-22879**	Vent Stack (Float Cover)	
	67	**P-22557**	Loose Lever with Wire Conn and Screw	
		P-506	Screw—Wire Clamp	
	68	**P-23993**	Fast Idle Cam	
	69	**P-23995**	Fast Idle Cam Lever	
	70	**P-23458**	Vent Tube (Air Horn)	
	71	**P-23974**	Snap Ring—Fast Idle Cam	
	72	**P-23994**	Spring—Fast Idle Cam	
	*74	**P-24322**	Assy —Auto Choke Housing	
	75	**P-23297**	Gasket—Auto Choke Housing	
	76	**P-23918**	Screw—Auto Choke Housing Attach	
	77	**P-24001**	Vacuum Piston with Link and Lever	
	78	**P-23933**	Washer—Thermostat Lever Adj	
	79	**P-15875**	Lockwasher—Vac Piston and Link Attach Nut	
	80	**P-16571**	Nut—Vac Piston and Link Attach	
	81	**P-23536**	Idle Air Bleeder No 36	**(NOT VAR.)**
	82	**P-24088**	Spacer—Fast Idle Cam Spring	
	83	**112-S-1**	Cotter Pin—Fast Idle Rod	
	84	**P-23932**	Washer—Therm Cover Assy Attach Screw	
	85	**P-2866**	Screw—Therm Cover Assy Attach	
	86	**P-24004**	Thermostat Cover and Screen	
	87	**P-19430**	Wedge—Pump Discharge Tube	
	88	**P-23927**	Screen—Thermostat Cover	

NOTE--For Parts Marked (VAR) Size Must be Specified when Ordering.

*Indicates New Part.

BENDIX PRODUCTS DIVISION

SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

Printed in U S A

STROMBERG "AAV-26" CARBURETOR

STROMBERG NO. A-18962 (CODE NO. 205-3)—CADILLAC SYMBOL 1433374

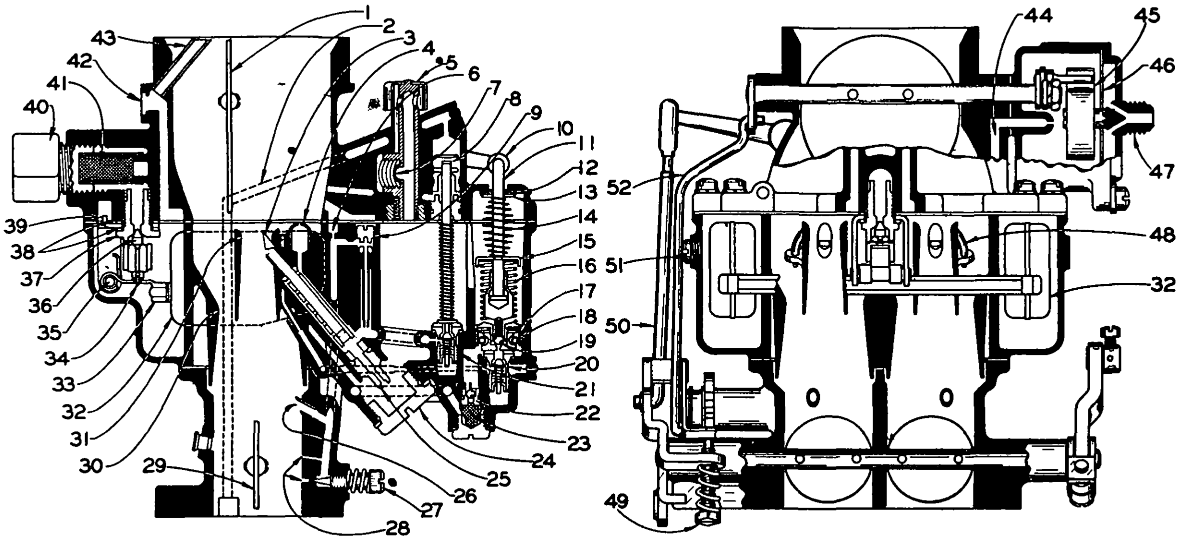
SIZE: 1¼" DUAL D. D.

1939 CADILLAC

MODELS 60 SPEC.,
61, 75
3½x4½—8 cyl.

PARTS ILLUSTRATED

1 Choke Valve
2 Power Vac Passage
3 Main Dis Jet
4 High Speed Bleeder
5 Float Chamber Vent
6 Idle Air Bleeder
7 Drain Connection
8 Power Vac Piston
9 Idle Tube
10 Pump Fulcrum Arm
11 Pump Piston Link
12 Felt Dust Washer
13 Retainer Washer
14 Dust Washer Spring
15 Spring Ret Washer
16 Pump Dur Spring
17 Pump Piston
18 Piston Expan Spring
19 Pump Relief Valve
20 Pump By Pass Jet
21 Power By-Pass Jet
22 Pump Inlet Ck Val
23 Pump Inlet Strainer
24 Main Dis Jet Plug
25 Main Metering Jet
26 Float Needle Valve
27 Idle Needle Valve
28 Idle Dis Holes
29 Throttle Valve
30 Primary Venturi
31 Auxiliary Venturi
32 Float
33 Float Lever



34 Float Needle Valve Clip
35 Float Fulcrum Pin
36 Float Needle Valve
37 Float Needle Valve Seat
38 Float Hanger Gaskets
39 Float Hanger
40 Gasoline Inlet
41 Gasoline Strainer
42 External Float Chamber Vent
43 Ext Float Chamber Vent
44 Automatic Choke Vac Passage
45 Thermostat
46 Screen
47 Hot Air Tube Conn
48 Pump Dis Nozzle
49 Thro Stop Screw
50 Pump Rod
51 Fuel Level Sight Plug
52 Fast Idle Rod

Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **5/8"** below top surface of float chamber (without gasket) or level with bottom of the level sight plug. To correct fuel level, hold air horn in inverted position. Place **Tool T-24971** on gasket. Tops of floats should be level with tops of vertical guides, which will give approximate fuel level; change if necessary. Sides of floats should be tangent to guides of tool without drag.

MAIN METERING SYSTEM—Venturi 1⅛"; Main Discharge Jet **No. 32** P-23567 **(Tool T-24967)**; High Speed Bleeder **No. 70** P-23985; Main Metering Jet **—.050"** P-19442 **(Tool T-24924)**; **(Tool T-19099)** used with main disch. jet plug; Main Metering System controls the flow of fuel up to approximately 70 to 75 M. P. H.

POWER SYSTEM—Power By-Pass Jet **No. 54** P-21197; Power jet to come into operation at **5" to 6"** of manifold vacuum, which is approximately 70 to 75 M. P. H. **(Tool T-24733)** used for removing P-22803 vacuum power piston.

ACCELERATION—Pump Discharge Nozzles **No. 65**; Pump By-Pass Jet **No. 63** P-23742; Pump capacity **14** to **18** c. c. per 10 fast strokes, and **18** to **22** c. c. per 10 slow strokes (Minimum adjustment); **(Tool T-24972)** Pump action takes place during acceleration period only.

IDLE SYSTEM—Idle Discharge holes **No. 52-56**; with throttle valve fully closed and **No. 56** drill in idle hole, edge of valve is located **.040" + —.004"** from **No. 56** drill; Idle Air Bleeds **No. 52** (in main body) **No. 36** (in throttle body); Idle Tube **No. 64** P-24009; **Adjustment:** Adjust to smooth running one barrel at a time OUT to make richer and IN to make leaner; throttle at 6 M. P. H.

FLANGE GASKET—P-18165.

SPECIAL TOOLS REQUIRED—Use Cadillac complete Tool Kit **SER. 361.** T-24971 Float Gauge; T-24967 Main Discharge Jet Remover; T-24924 Main Metering Jet Wrench; T-24970 By-Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burrette Gauge; T-24968 Handle; T-24733 Power Piston Wrench; T-25056 Auto-choke Step Gauge; T-19099 Main Jet Plug Screw Driver; T-25046 Choke Gauge; T-25047 Choke Lever Lock Nut Wrench.

MOTOR TUNE UP DATA

SPARK PLUG—.025" to .030".
Clean and adjust at regular intervals.

DISTRIBUTOR—.0125" to .0175".
Breaker gap set .0125" to .0175". Replace if necessary.

VALVES—Intake ; Exhaust: Automatic take-up.

IGNITION TIMING—Breaker contacts to open for No. 1 cylinder when mark IG/A on harmonic balancer is in line with pointer.

SERVICE RECOMMENDATION — Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

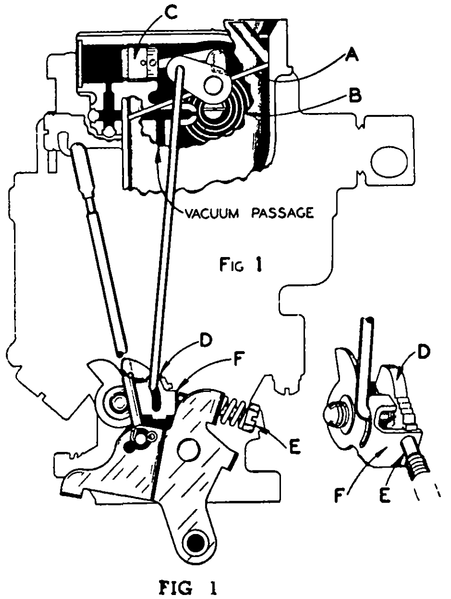


FIG 1

AUTOMATIC CHOKE CONTROL

GENERAL DESCRIPTION

The automatic choke control is built into a housing integral with the carburetor The principles used in the operation of the automatic choke are manifold vacuum thermostat spring and an offset choke valve in the carburetor The vacuum piston and thermostat are directly connected to the carburetor choke valve and accurately control the opening and closing of the choke valve under varying operating temperatures and at various throttle positions A tube leading from the exhaust manifold to the thermostat chamber transmits heat to govern the tension of the thermostat spring A fast idle cam operating in conjunction with the automatic choke provides the proper throttle opening for a cold engine and thereby prevents the engine from stalling during the warming up period

OPERATION AND ADJUSTMENTS

CHOKE CLOSED — FAST IDLE — COLD ENGINE — FIG. 1

When the engine becomes cold the thermostat B also cools and gradually gains tension The thermostat is unable to close the choke valve A until the throttle is opened **It is therefore necessary to depress the accelerator pedal slightly and then allow it to return to normal position before making a start.** Opening the throttle in this manner permits the throttle stop screw E to be moved away from the fast idle cam D This allows the choke valve to close in accordance with the thermostat tension The throttle stop screw then comes to rest on a higher lobe of the fast idle cam or on the ear of the loose lever F if the choke valve is completely closed as shown in Fig 1 This provides the proper throttle opening for the prevailing engine temperature The choke valve A is held in closed position during the cranking period by the tension of the thermostat B

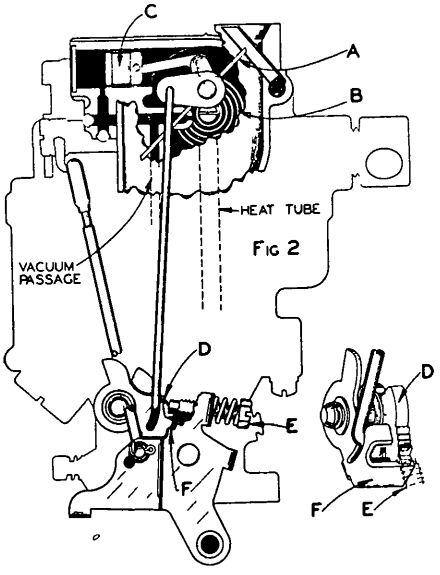


FIG 2

CHOKE PARTIALLY OPENED — ENGINE RUNNING — WARMING UP PERIOD — FIG. 2

When the engine begins to fire the manifold vacuum thus created pulls the vacuum piston 'C opening the choke valve A against the tension of the thermostat B Sufficient air is thereby admitted to give a satisfactory running mixture **When the engine continues to run, it is necessary to open the throttle slightly, which procedure ordinarily occurs when driving the car away. If the car is permitted to stand and idle, the throttle should be opened slightly and then allowed to return to slow idle position.** As the choke valve opening is increased the fast idle cam D is allowed to revolve so that the throttle stop screw E comes to rest on a lower step when the throttle is opened and then permitted to close

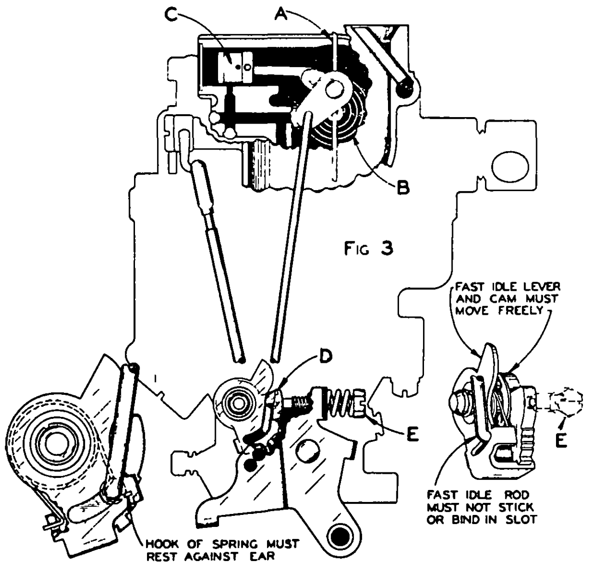

C
A
B
Fig 3
FAST IDLE LEVER AND CAM MUST MOVE FREELY
D
E
E
FAST IDLE ROD MUST NOT STICK OR BIND IN SLOT
HOOK OF SPRING MUST REST AGAINST EAR

FIG. 3

ENGINE WARM — CHOKE WIDE OPEN — SLOW IDLE — FIG. 3

While the engine continues to run the amount that the choke valve is opened against the tension of the thermostat spring A is governed by the quantity of inrushing air past the off center choke valve and the travel of the vacuum piston C Heat is transmitted into the thermostat chamber by hot air being drawn from the stove on the exhaust manifold The thermostat gradually absorbs sufficient heat until it does not offer any further resistance to the choke valve opening At the same time the fast idle cam D rotates until the throttle stop screw E is at normal idle position FIG 3 The throttle stop screw should be adjusted for a car speed of 7 to 8 miles per hour with the engine at normal operating temperature NOTE The torsional spring of the fast idle loose lever has one end connected to the fast idle rod When servicing it is very essential that the bushing is placed on the rod after the rod is assembled in the lever .The hook of the spring should be assembled on the rod with the end of the hook butting against the ear of the lever as illustrated in FIG 3 It is also essential that the lever and cam move freely and that the rod does not stick or bind in the slot of the lever

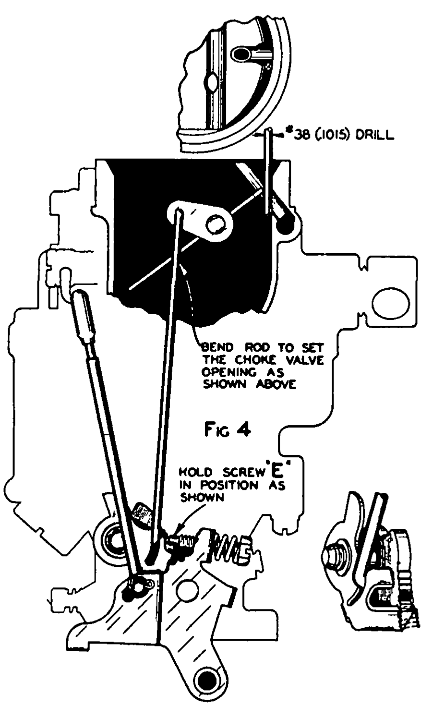

#38 (.1015) DRILL
BEND ROD TO SET THE CHOKE VALVE OPENING AS SHOWN ABOVE
FIG 4
HOLD SCREW "E" IN POSITION AS SHOWN

FIG. 4

CHECKING FAST IDLE ADJUSTMENT— FIG. 4

To check the fast idle setting of the carburetor it is merely necessary to hold the stop screw E on the high lobe of the fast idle cam as illustrated in FIG 4 Move the choke valve as far as possible to the closed position The opening that remains should be equivalent to a **No. 38 drill (.102").** If this amount of opening is not obtained it is only necessary to slightly bend the fast idle rod at the point indicated in FIG 4 Care should be taken so as not to cause a bind in the fast idle mechanism

CHOKE RELEASE — FIG. 5

If for any reason the engine should become flooded the choke valve can be partially opened by depressing the accelerator pedal to the full extent of its travel This results in ear G of the throttle lever making contact with the fast idle loose lever rotating it and forcing the choke valve partially open

With the throttle in the wide open position the space between the top of the choke valve and the air horn should be between 156 and 187 This can be measured by placing a drill of **11/64'** diameter between the valve and the air horn If it is necessary to readjust this it can be done by bending ear G to the desired position **Tool T 25056** choke valve setting gauge is recommended instead of using drills

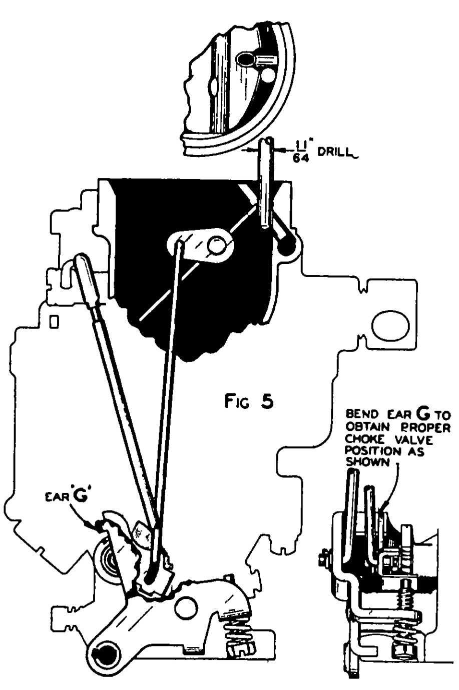


FIG. 5

SERVICING THE AUTOMATIC CHOKE CONTROL

The automatic choke control is properly set at the factory Under ordinary circumstances it will give many miles of satisfactory service In the operation of an automatic choke control the one point that must be borne in mind at all times is that all parts of the unit must operate freely and not stick or bind in any position of travel

DISASSEMBLY

1. Disconnect the heat tube from the thermostat housing
2. Remove carburetor from manifold
3. Remove thermostat cover screws and lug washers Thermostat cover assembly can then be taken off the choke housing
4. Loosen locknut removing lock washer and serrated washer
5. Remove vacuum piston assembly from housing.
6. With a clean rag saturated with acetone or alcohol, thoroughly clean the cylinder walls of any dirt or other foreign material which may have accumulated in regular service Use compressed air to blow out all of the channels The surface of the piston should also be thoroughly cleaned Do not use any abrasive materials for cleaning piston or cylinder
7. Thoroughly clean the screen on the inside of the cover by blowing compressed air into the heat tube connection, and also between the screen and the cover, using precaution not to distort the screen

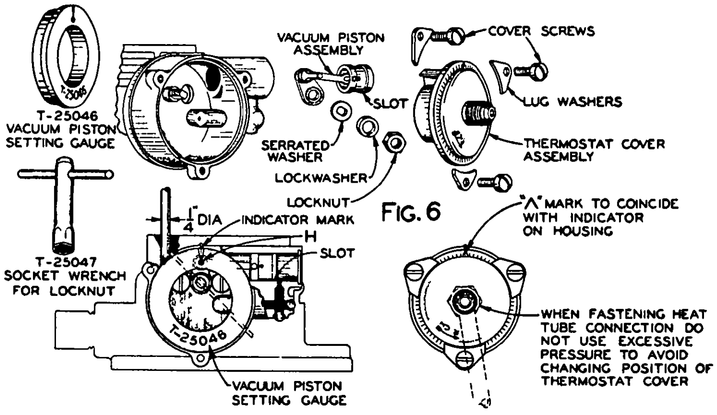

T-25046
VACUUM PISTON SETTING GAUGE
T-25047
SOCKET WRENCH FOR LOCKNUT
VACUUM PISTON ASSEMBLY
SLOT
SERRATED WASHER
LOCKWASHER
LOCKNUT
1/4" DIA
INDICATOR MARK
H
SLOT
T-25046
VACUUM PISTON SETTING GAUGE
COVER SCREWS
LUG WASHERS
THERMOSTAT COVER ASSEMBLY
FIG. 6
"A" MARK TO COINCIDE WITH INDICATOR ON HOUSING
WHEN FASTENING HEAT TUBE CONNECTION DO NOT USE EXCESSIVE PRESSURE TO AVOID CHANGING POSITION OF THERMOSTAT COVER

FIG. 6

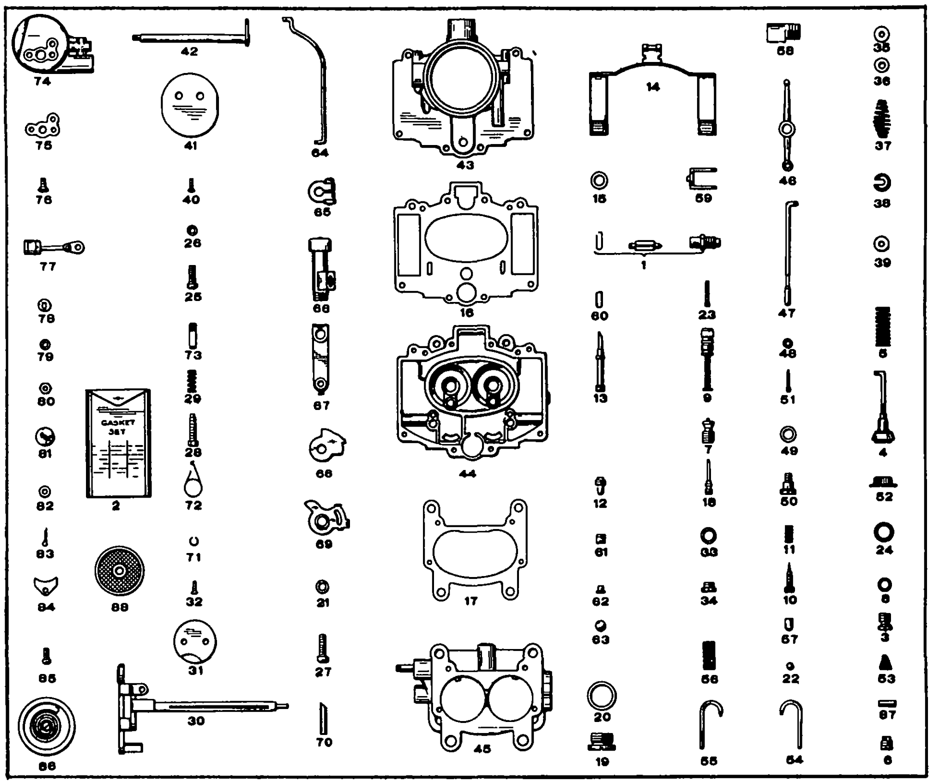
REASSEMBLY

1. Place vacuum piston in cylinder with slot on piston assembled **DOWN. THIS IS VERY IMPORTANT, ALSO DO NOT USE ANY TYPE OF LUBRICANT ON PISTON OR IN CYLINDER.** Assemble lever onto choke stem Next assemble serrated washer lock washer and locknut fastening the nut **merely by hand.**
2. Referring to FIG 6, place tool **T-25046** on choke housing with the small hole (H) fitting over the pin of the choke lever The indication line at the outer diameter of the tool should be set to line up with the projection on the choke housing The tool should be held in this position by hand or two of the cover screws and lug washers can be used to do this
3. Holding choke valve against a **No. 70 drill (.028)** between the choke valve and the air horn as illustrated in Fig 6 Tighten locknut lightly with tool **T-25047.**
4. Remove tool **T-25046.** Hold choke valve in closed position and tighten locknut securely CHECK CHOKE VALVE OPENING to be certain the setting wasn't disturbed Do not endeavor to change position of serrated washer or piston lever without loosening locknut

THERMOSTAT SETTING

The thermostat is calibrated and properly set at the factory to give satisfactory performance with the regular blends of gasoline When placing the thermostat cover assembly on the housing use precaution that the edge of the screen is not crimped or creased to cause a leak Locate the thermostat hook at the bottom of the housing and then rotate the cover in the "RICH' direction until the O" mark coincides with the projection on the housing This procedure is recommended to make certain that the thermostat hook contacts the pin on the choke lever Place the lugs in position and fasten the cover screws securely If extremely high volatile fuel is continuously used or if some exceptional condition is encountered it may be desirable to slightly vary the adjustment of the cover to obtain the best possible performance **Do not, however, vary the adjustment more than two graduations in either direction.** The thermostat need not be changed unless some part of the assembly has been tampered with or is damaged In such cases it is necessary to replace the entire assembly NOTE When assembling heat tube connection nut onto thermostat cover, do not use excessive pressure in order to avoid changing the position of the cover

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Bin Loca-ti n	Key No.	Part No.	Part Name	
	·1	P-22499	Float needle valve,clip & seat (101')	(NOT VAR.)
	2	J-5421-G	Complete Gasket Set	
	3	P-23742	Pump by-pass jet No 63	(NOT VAR.)
	4	P-20440	Pump piston and link	
	4-A	P-22871	Pump piston, link and spring (complete)	
	5	P-22870	Spring—pump duration	
	6	P-18144	Pump inlet check valve	
	7	P-21197	Power by-pass jet No 54	(NOT VAR.)
	8	P-19448	Gasket—by-pass jets	
	9	P-22803	Vacuum power piston	
	10	P-15478	Idle needle valve	
	11	P-18710	Spring—idle needle valve	
	12	P-19442	Metering jet—.050"	(VAR.)
	13	P-23567	Main disch jet No 32	(NOT VAR.)
	14	P-22433	Float with lever	
	15	P-2885	Gasket—float needle valve seat	
	16	P-22885	Gasket—air horn	
	17	P-23940	Gasket—main body	
	18	P-24009	Idle tube	
	19	P 21767	Plug—main disch jet	
	20	P-22851	Gasket—main disch jet plug	
	21	P-3157	Lockwasher—main body attach screw	
	22	P-18772	Lead ball	
	23	P-22439	Fulcrum pin—float lever	
	24	P-16960	Spring—pump piston leather expansion	
	25	P-2475	Screw—air horn attaching	
	26	P-6668	Lockwasher—air horn attach screw	
	27	P-709	Screw—main body attaching	
	28	P-19103	Screw—idle adj	
	29	P-15831	Spring—idle adj screw	
	30	P-23988	Throttle lever and stem	
	31	P-24172	Throttle valve (5°)	(NOT VAR.)
	32	P-22573	Screw—throttle valve attach	
	33	P-7338	Gasket—check valve plug	
	34	P-19716	Plug—check valve	
	35	P-17380	Washer—felt	
	36	P-17060	Washer—Splash—pump link	
	37	P-22643	Spring—packing retainer	
	38	P-22045	Washer—cup	
	39	P 22046	Washer—spring retainer	
	40	P-4522	Screw—choke valve attach	
	41	P 24000	Choke valve	
	42	P 23959	Choke stem and lever	
	43	P 23999	Air horn	
	43-A	P-23998	Air horn assy (complete)	
	44	P-23982	Assy—main body 1⅛" venturi (complete with H S bleeders and pump dis nozzles)	(VAR.)
	45	P-23987	Assy throttle body **No. 52-56** idle discharge holes	(VAR.)
		P-23536	Idle air bleed No 36	(NOT VAR.)
		P-23953	Fast idle cam fulcrum pin	
	46	P-22430	Pump lever	
	47	P-22620	Pump rod	
	48	P-9394	Washer—pump rod	
	49	P-19820	Spring—washer—pump lever ful screw	
	50	P-20611	Fulcrum screw—pump lever	
	51	P-7170	Cotter pin—pump rod and pump link	
	53	P-23858	Strainer—pump check valve	
	54	P-23245	Tube—pump disch (right)	
	55	P-23246	Tube—pump disch (left)	
	56	P-23912	Strainer—gasoline	
	57	P-23985	High speed bleeder No 70	(NOT VAR.)
	58	P 23911	Elbow—gas connection	
	59	P-22441	Float hanger	
	60	P-22523	Clip—float needle valve	
	61	P-6406	Plug—fuel level sight	
	62	P-15459	Plug—idle disch hole—¼"	
	63	P-8495	Plug—expansion	
	64	P 23991	Fast idle rod	
	65	P 17287	Assy—loose lever stop	
		P 18769	Screw	
		P-18299	Nut	
	66	P-22879	Vent stack (float cover)	
	67	P-22557	Loose lever with wire conn and screw	
		P-506	Screw—wire clamp	
	68	P-23993	Fast idle cam	
	69	P-23995	Fast idle cam lever	
	70	P-23458	Vent tube (air horn)	
	71	P-23974	Snap ring—fast idle cam	
	72	P-23994	Spring—fast idle cam	
	73	P-22642	Pin—fast idle cam stop	
	74	P-24322	Assy—auto choke housing	
	75	P-23297	Gasket—auto choke housing	
	76	P-23918	Screw—auto choke housing attach	
	77	P-24001	Vac piston with link and lever	
	78	P-23933	Washer—Thermostat lever adj	
	79	P 15875	Lockwasher—vac piston and link attach nut	
	80	P 16571	Nut—vac piston and link attach	
	81	P 23917	Plug—vac cylinder	
	82	P-24088	Spacer—fast idle cam spring	
	83	112-s-1	Cotter pin—fast idle rod	
	84	P-23932	Washer—therm cover assy attach screw	
	85	P-2866	Screw—therm. cover assy, attach.	
	86	P-24004	Thermostat, cover and scr en	
	87	P-19430	Wedge—pump disch tube	
	88	P-23927	Screen—thermostat cover	

NOTE—F r parts marked (VAR.) size must be specified when ordering.

BENDIX PRODUCTS DIVISION
SOUTH BEND **OF BENDIX AVIATION CORPORATION** **INDIANA**

STROMBERG "AAV-25" CARBURETOR

(STROMBERG NO A 18672—CADILLAC SYMBOL NO. 1425447)

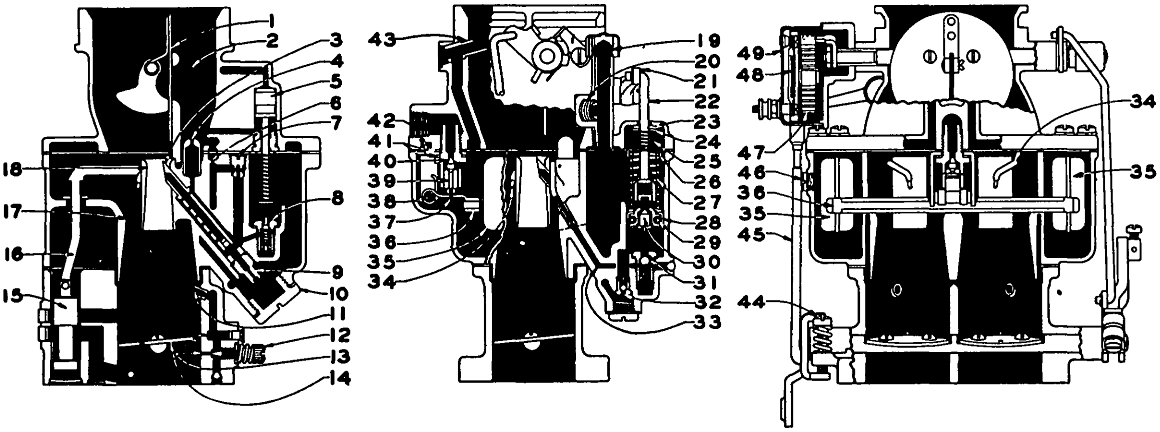
SIZE: 1¼" DUAL D. D 4 HOLE FLANGE

REPLACE WITH AAV 26 EQPT J 5543

1938
CADILLAC

MODELS
38-50, 60, 61, 65, 70, 75,
3⅜" - 3½"x4½"—8 cyl.

PARTS ILLUSTRATED



1 Choke Valve
2 Vacuum Channel
3 Main Discharge Jet
4 High Speed Bleeder
5 Vacuum Power Piston
6 Idle Air Bleeder
7 Idle Tube
8 Power By Pass Jet
9 Main Metering Jet
10 Main Dis Jet Plug
11 Sec Idle Air Bleeder
12 Idle Needle Valve
13 Idle Discharge Holes
14 Throttle Valve
15 Auto Choke Piston
16 Choke Piston Link
17 Primary Venturi
18 Auxiliary Venturi
19 Ext Fl Chmbr Vent
20 Overflow Drain Con
21 Pump Fulcrum Arm
22 Pump Piston Link
23 Felt Dust Washer
24 Retainer Washer
25 Dust Washer Spring
26 Spring Ret Washer
27 Pump Duration Spring
28 Pump Piston
29 Piston Expansion Spring
30 Pump Relief Valve
31 Pump By-Pass Jet
32 Pump Inlet Check Valve
33 Pump Dis Channel
34 Pump Dis Nozzle
35 Float
36 Float Lever
37 Float Needle Valve Clip
38 Float Fulcrum Pin
39 Float Needle Valve
40 Float Needle Valve Seat
41 Float Hanger Gaskets
42 Float Hanger
43 Inlet Float Chamber Vent
44 Throttle Stop Screw
45 Pump Rod
46 Fuel Level Sight Plug
47 Automatic Choke Thermostat
48 Electric Element
49 Thermostat Cover

Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **5/8"** below top surface of float chamber (without gasket) or level with bottom of the level sight hole at 3 lbs pressure To correct fuel level, hold air horn in inverted position Place **Tool T-24971** on gasket Tops of floats should be level with tops of vertical guides, which will give approximate fuel level, change if necessary Sides of floats should be tangent to guides of tool without drag

MAIN METERING SYSTEM—Venturi 1⅛"; Main Dis-Charge Jet **No. 32** P-23567, **(Tool T-24967)**; High Speed Bleeder **No. 63** P-22369, Main Metering Jet **.050"** P-19442 **(Tool T-24924)**; **(Tool T-19099)** used to remove main discharge jet plug, Main Metering system controls the flow of fuel up to approximately 70 to 75 M P H

POWER SYSTEM- Power By-Pass Jet **No. 52** P 23667, Power jet to come into operation at **5"** to **6"** of manifold vacuum, which is approximately 70 to 75 M P H **(Tool T-24733)** used to remove P-22803 vacuum power piston

ACCELERATION – Pump Discharge Nozzles **2 No. 70**; Pump By-Pass Jet **2 No. 63** P-23518, Pump capacity **18** to **22** c c per 10 fast strokes, and **18** to **22** c c per 10 slow strokes (Minimum adjustment), **Tool T-24972)** Pump action takes place during acceleration period only

IDLE SYSTEM--Idle Discharge holes **No. 54-58**; with throttle valve fully closed and **No. 58** drill in idle hole, edge of valve is located **.030"** + — **.004"** from **No. 58** drill, Idle Air Bleed **No. 60** (in main body) **No. 36** (in throttle body), Idle Tube **No. 66** P-23527. **Adjustment:** Adjust to smooth running one barrel at a time, OUT to make richer and IN to make leaner, throttle at 7 to 8 M P H

FLANGE GASKET—P-18165

SPECIAL TOOLS REQUIRED--Use Cadillac complete Tool Kit **SER. 361**; T 24971 Float Gauge, T-24967 Main Discharge Jet Remover, T-24924 Main Metering Jet Wrench, T-24970 By-Pass Jet and Check Valve Tester, T 24972 Pump Capacity Burrette Gauge, T-24968 Handle, T-19099 Main Jet Plug Screw Driver, T-24733 Power Piston Wrench

MOTOR TUNE-UP DATA

SPARK PLUG—.027".
Clean and adjust at regular intervals.

DISTRIBUTOR—.0125" to .0175".
Breaker gap set .0125" to .0175".
Replace if necessary.

VALVES—Intake:
Exhaust: Automatic take-up.

IGNITION TIMING—Breaker contacts to open for No. 1 cylinder when mark "IGLA" on harmonic balancer is in line with pointer.

SERVICE RECOMMENDATION — Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

AUTOMATIC CHOKE CONTROL

GENERAL DESCRIPTION

In the Stromberg Model AAV 25 carburetor the automatic choke control is built integral with the carburetor The principles are the same as previously used on the Cadillac models namely, manifold vacuum, heat on a thermostat spring, and offset choke valve in the carburetor. The vacuum piston which is used to open the choke valve when the engine begins to fire is connected to the choke valve while the thermostat spring is connected to the choke stem The fast idle feature is accomplished by internal channels supplying additional fuel below the throttle valve during the cranking and fast idle periods. Figs 1 4 show the automatic choke control and fast idle in the various stages of operation

Operation and Adjustments

CHOKE CLOSED — FAST IDLE — COLD ENGINE

When the engine becomes cold the thermostat spring also cools and gradually gains sufficient tension to close the choke valve A With this action vacuum piston B , being directly connected to the choke valve is raised to its upper position opening fast idle passage E so that air is drawn through 'E' during the fast idle period The air flow through E draws fuel from passage "F" to supply an additional mixture for fast idle While the engine is being cranked, the choke valve and vacuum piston remain in the position shown in Fig. 1

CHOKE PARTIALLY OPEN — ENGINE FIRING — FAST IDLE

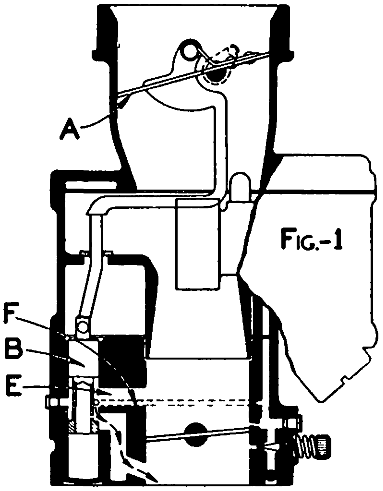


FIG.-1

When the engine begins to fire and manifold vacuum is created vacuum piston 'B' is pulled down and opens choke valve "A to admit sufficient air for a running mixture Fig 2 The travel of the piston is stopped by the upper side hole in the piston being exposed to air taken through passage 'E The mixture of air and fuel from passages E and F provide the fast idle feature

ADJUSTING: The pull of the vacuum piston should be set in accordance with the choke valve opening Remove drive plug from channel 'F' and insert shank end of a new **No. 34** drill (111 ') The choke valve should then be opened until the piston comes to rest on the No 34 drill In this position the choke valve should be opened so that a **7/32"** drill can be placed between the valve and the air horn **Tool T-24733** can be used to change the opening by bending the lever between the choke valve and the piston link

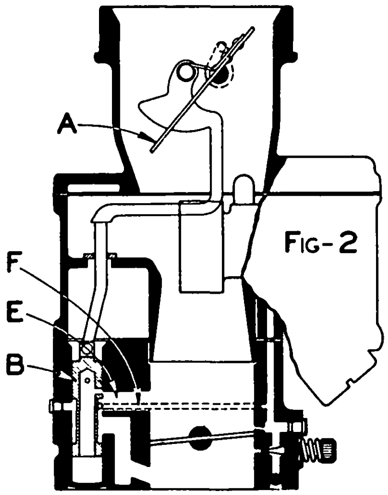


FIG-2

ENGINE WARM — SLOW IDLE

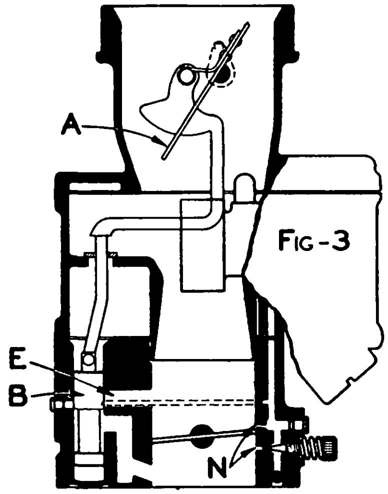


FIG-3

The choke valve in the carburetor being off center continues to open by the force of the inrushing air The amount of opening is controlled by the tension of the thermostat spring until the thermostat absorbs sufficient heat so that it will not offer any resistance As the choke valve 'A opens it allows the vacuum piston 'B' to lower until the piston closes passages "E" and "F" eliminating the fast idle Fuel is then only taken through the regular idle discharge holes N" Fig 3

CHOKE WIDE OPEN — SLOW IDLE

When engine reaches normal operating temperature the choke valve "A" will be in wide open position and engine at slow idle Fig 4 The throttle stop screw should be adjusted at 7 to 8 M P H This is the only adjustment necessary

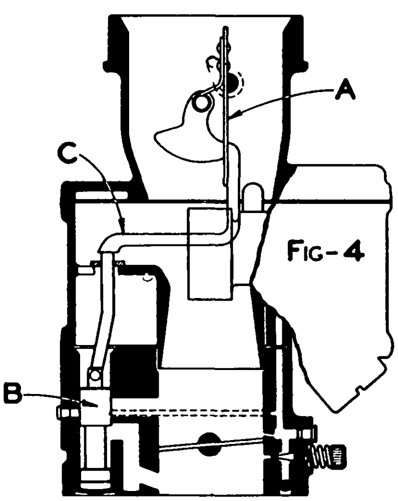


FIG-4

ADJUSTING THERMOSTAT

1. Remove thermostat case "G", allowing thermostat "D" to cool or warm until it has reached the temperature of 70°. THIS IS VERY IMPORTANT.

2. When the **thermostat reaches 70°, the inside** of hook "H" of the thermostat should **coincide with the "zero" marking** on the thermostat case, which is the **original setting made at the factory.** When installing a new thermostat or other new parts, check the zero location very carefully at 70° temperature and change the location if necessary. If it is impossible for the thermostat to reach 70°, you can provide for the difference by allowing one graduation on thermostat case for every 7½° temperature.

3. To adjust thermostat, re-assemble case onto the air horn so that hook "H" comes into contact with pin on the lever without any tension and with choke valve "A" in wide open position. The zero marking on the case will then coincide with the notch on the air horn.

4. Revolve thermostat case **fifteen** notches rich as indicated by the arrow and fasten screws securely.

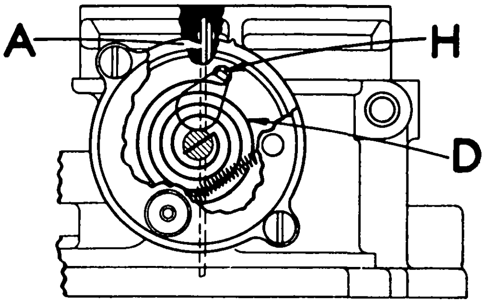


FIG. 5

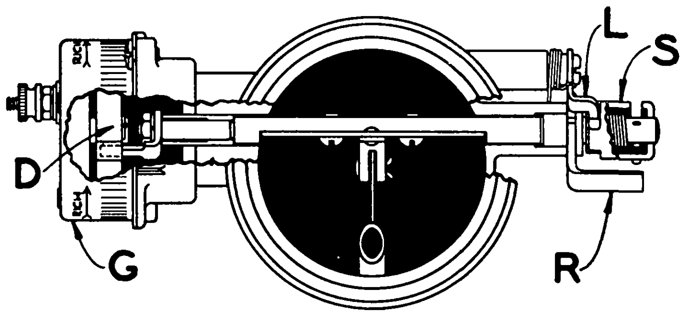


FIG. 6

In the new "AAV-25" carburetor an additional feature in connection with the automatic choke control has been incorporated in the choke mechanism. It consists of a spring loaded spool on the choke valve shaft which increases the tension on the choke valve during the cranking period of a cold engine. The various steps of its operation are illustrated in Figs. 7-11. If any difficulty is encountered with starting, the procedure should be fully explained to the car owner.

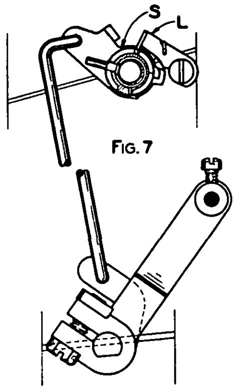


FIG. 7

Choke Closed — Throttle Closed — Engine Cranking

When starting a cold engine, it is necessary to allow throttle to close and assume a slow idle position. Fig. 7. This permits lever "L" to engage in slot of spring loaded spool "S", the tension of which assists in holding the choke valve closed during the starting period.

IMPORTANT: It is essential that all of the parts are free to move into position.

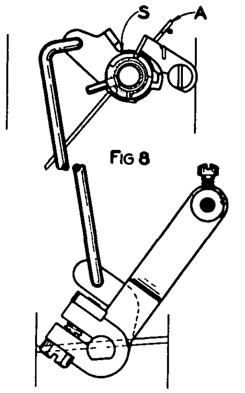


FIG 8

Choke Partially Open—Throttle Closed—Engine Running

As soon as the engine begins to fire the choke valve "A" is free to be opened by the vacuum piston against the tension of the thermostat spring and the spring loaded spool "S", lever "L" remaining engaged in the spool. Fig 8.

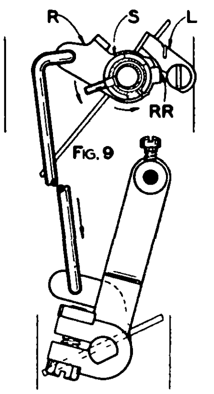


FIG. 9

Choke and Throttle Partially Opened—Engine Running

When the engine continues to run, it is necessary to open the throttle slightly which ordinarily occurs when driving away. If the car is permitted to stand and idle, the throttle should be opened slightly and then allowed to return to slow idle position This action causes lever "R" to revolve so that the ear "RR" of the lever "R" lifts lever "L" and disengages it from the spring loaded spool "S". Fig. 9. The pull of the vacuum piston and the air entering the carburetor tend to force the choke valve open against the tension of the thermostat spring

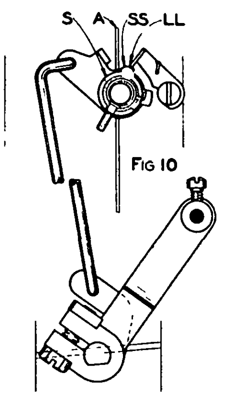


FIG 10

Choke Wide Open

The choke valve continues to revolve until it reaches wide open position. Spool "S" revolves with the valve so that cam "SS" comes to rest under lip "LL" of the lever "L". The cam should be able to take the position as shown in Fig 10 without excessive friction between the parts

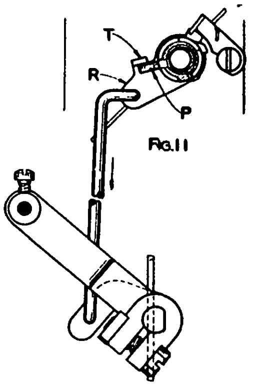
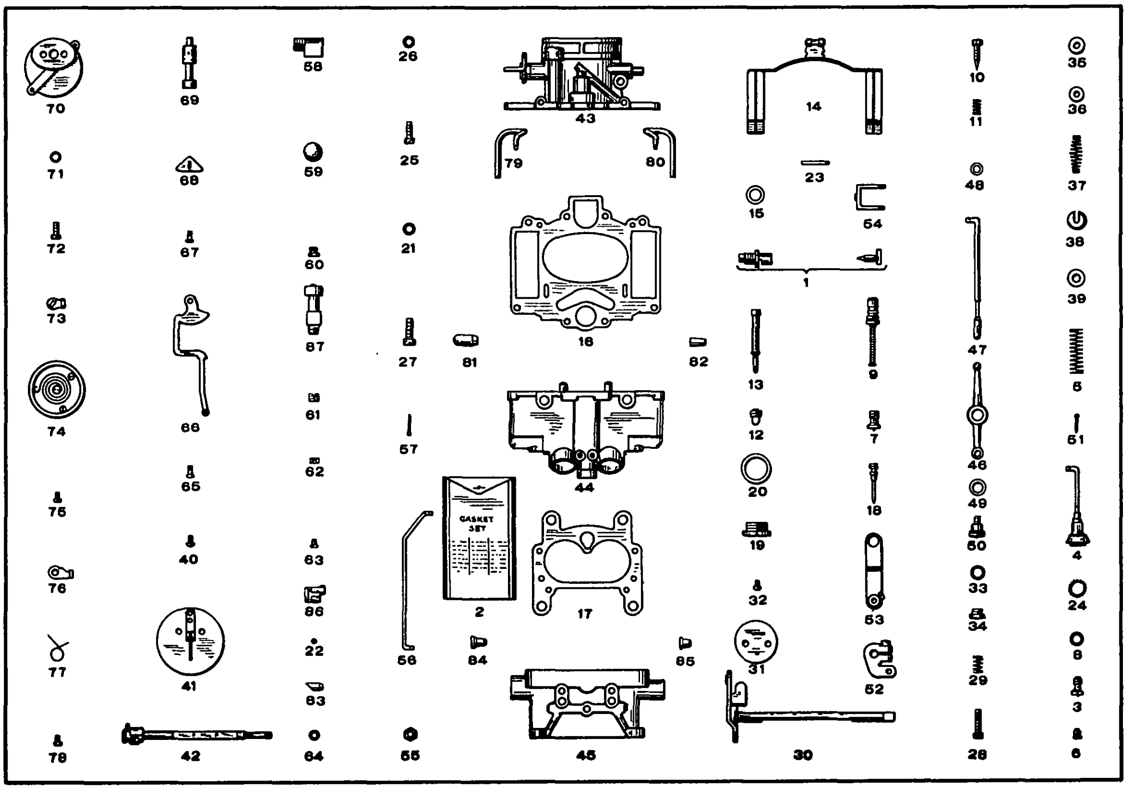


FIG. 11

Choke Release

If for any reason the engine should become flooded, the choke valve can be partially opened by depressing the accelerator pedal to the extent of its travel. Lever "R" is pulled down so that the ear "T" comes in contact with the pin "P" and forces the choke valve open so that a 7/32" drill can be placed between choke valve and air horn. The amount of opening can be changed by bending choke stem pin "P" or ear "T". Fig. 11.

IMPORTANT: This mechanism is part of the automatic choke control, and should be treated as such. All parts should move freely and not bind in any phase of their operation. Do not attempt to change the tension of the springs or lubricate the parts. If any parts have been tampered with or are damaged they should be replaced with new ones.



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No.	Part No.	Part Name
	1	P-22499	Float Needle Valve, Clip & Seat, .101" **(NOT VAR.)**
	2	J-5320-G	Complete Gasket Set
	3	P-23518	Pump By-Pass Jet 2 No. 63 **(NOT VAR.)**
	4	P-23520	Pump Piston & Link **(Includes P-16960 Spring)**
	4-A	P-23519	Pump Piston Link and Spring (Complete)
	5	P-22870	Spring—Pump Duration
	6	P-18144	Pump Inlet Check Valve
	7	P-23667	Power By-Pass Jet No. 52 **(NOT VAR.)**
	8	P-19448	Gasket—By-Pass Jets
	9	P-22803	Vacuum Power Piston
	10	P-15478	Idle Needle Valve
	11	P-18710	Spring—Idle Needle Valve
	12	P-19442	Metering Jet—**.050"** **(VAR.)**
	13	P-23567	Main Discharge Jet No. 32 **(NOT VAR.)**
	14	P-22433	Float with Lever
	15	P-2885	Gasket—Float Needle Valve Seat
	16	P-22885	Gasket—Air Horn
	17	P-22427	Gasket—Main Body
	18	P-23527	Idle Tube
	19	P-21767	Plug—Main Discharge Jet
	20	P-22851	Gasket—Main Discharge Jet Plug
	21	P-3157	Lockwasher—Main Body Attaching Screw
	22	P-18772	Lead Ball
	23	P-22439	Pin—Fulcrum—Float Lever
	24	P-16960	Spring—Pump Piston Leather Expansion
	25	P-2475	Screw—Air Horn Attaching
	26	P-6668	Lockwasher—Air Horn Attaching Screw
	27	P-709	Screw--Main Body Attaching
	28	P-16586	Screw—Throttle Stop
	29	P-15831	Spring--Throttle Stop Screw
	30	P-23530	Throttle Lever and Stem
	31	P-23537	Throttle Valve (5°) **(NOT VAR.)**
	32	P-23486	Screw—Throttle Valve Attach.
	33	P-7338	Gasket—Check Valve Plug
	34	P-19716	Plug--Check Valve
	35	P-17380	Washer—Felt
	36	P-17060	Washer-- Splash—Pump Link
	37	P-22643	Spring--Packing Retainer
	38	P-22045	Washer--Cup
	39	P-22046	Washer—Spring Retainer
	40	P-22573	Screw—Choke Valve Attaching
	41	P-23542	Choke Valve and Bracket
	42	P-23544	Choke--Stem and Pin
		P-22642	Pin
		P-23546	Spring
	43	P-23540-T	Air Horn
		P-21045	Choke Stem Bushing
		P-17996	Loose Lever Bushing
		P-23541	Loose Lever
		P-22883	Vent Tube
	43-A	P-23539	Assy.--Air Horn and Valve

NOTE—For parts marked (VAR.) size must be specified when ordering.

Bin Location	Key No.	Part No.	Part Name
	44	P-23513	Assy.—Main Body 1⅛" Venturi **No. 63** H. S. Bleeder—**No. 70** Pump Disch. Nozzles and **No. 60** Idle Air Bleeder **(VAR.)**
		P-8495	Expansion Plug
	45	P-23534	Assy.—Throttle Body **No. 54-58** Idle Disch. Holes and **No. 36** Idle Air Bleed **(VAR.)**
	46	P-22430	Pump Lever
	47	P-22620	Pump Rod
	48	P-9394	Washer—Pump Rod
	49	P-19820	Spring Washer—Pump Lever Fulcrum Screw
	50	P-20611	Screw—Fulcrum—Pump Lever
	51	P-7170	Cotter Pin—Pump Link and Pump Rod
	52	P-23532	Assembly—Loose Lever Stop
		P-23533	Loose Lever Stop
		P-18300	Clamp Screw
		P-18299	Clamp Screw Nut
	53	P-22557	Throttle—Loose Lever, with Wire Conn. & Screw
		P-506	Wire Conn. Screw
	54	P-22441	Float Hanger
	55	P-16571	Nut—Thermostat Lever Attach.
	56	P-23552	Rod—Deflooder
	57	112-S-1	Cotter Pin—Deflooder Rod
	58	P-17481	Elbow—Gas Conn.
	59	P-20782	Plug—Expansion—Vacuum Piston
	60	P-6406	Plug—Fuel Level Sight
	61	P-20884	Plug—Vacuum Piston Channel
	62	P-23644	Plug—Fast Idle By-Pass Channel
	63	P-16996	Plug—Fast Idle Channel No. 8
	64	P-15875	Lockwasher—Therm. Lever Attach. Nut
	65	P-22579	Pin—Fast Idle Link Fulcrum
	66	P-22553	Link--Fast Idle Piston
	67	P-20973	Rivet—Vacuum Piston
	68	P-22657	Cover—Vacuum Piston Link Channel
	69	P-23538	Vacuum Piston
	70	P-21009-T	Housing—Thermostat Unit
	71	P-15346	Lockwasher—Housing Attach. Screw
	72	P-12016	Screw—Therm. Housing Attach.
	73	P-22852	Lever—Thermostat
	74	P-22604	Thermostat Unit (Complete)
	75	P-21596	Screw—Thermostat Unit Attach.
	76	P-23551	Lever—Choke Lock
	77	P-23548	Spring—Choke Lock Lever
	78	P-23549	Screw—Choke Lock Lever
	79	P-23516	Tube—Pump Discharge (Left)
	80	P-23517	Tube--Pump Discharge (Right)
	81	P-22369	High Speed Bleeder No. 63 **(VAR.)**
	82	P-19430	Wedge—Pump Discharge Tube
	83	P-23536	Idle Air Bleeder No. 36 **(NOT VAR.)**
	84	P-15458	Plug--Idle Discharge ¼"
	85	P-15459	Plug--Idle Discharge No. 10
	86	P-23550	Bushing—Choke Lock Lever
	87	P-22879	Vent Stack

BENDIX PRODUCTS DIVISION
South Bend **Of Bendix Aviation Corporation** Indiana
Printed in U. S. A.

STROMBERG "AA-25" CARBURETOR

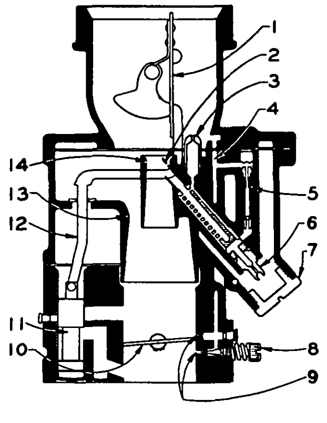
STROMBERG NO. A-18352 CADILLAC SYMBOL 1419627

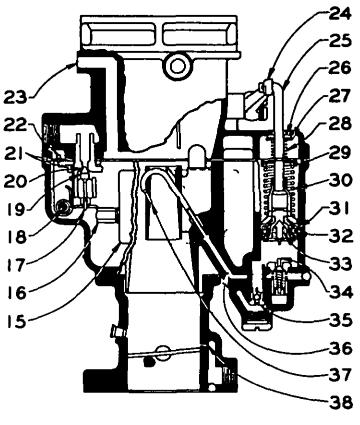
SIZE: 1¼" DUAL D. D. 4-HOLE FLANGE **REPLACE WITH AAV-26 EQPT. J-5543**

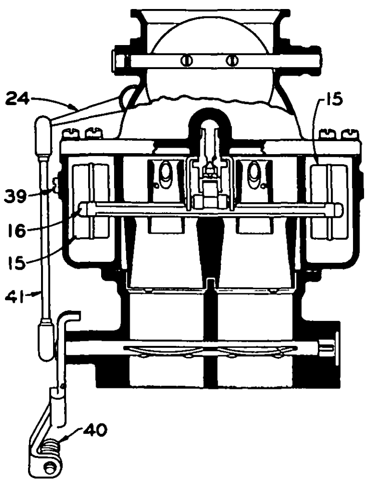
1937
CADILLAC

MODELS
37-60, 65, 70, 75
3⅜"-3½"x4"—8 cyl.

PARTS ILLUSTRATED







1 Choke Valve
2 Main Discharge Jet
3 High Speed Bleeder
4 Idle Air Bleeder
5 Idle Tube
6 Main Metering Jet
7 Main Discharge Jet Plug
8 Idle Needle Valve
9 Idle Discharge Holes
10 Throttle Valve
11 Automatic Choke Piston
12 Vacuum Piston Link
13 Primary Venturi
14 Auxiliary Venturi
15 Float
16 Float Lever
17 Float Needle Valve Clip
18 Float Fulcrum Pin
19 Float Needle Valve
20 Float Needle Valve Seat
21 Float Hanger Gaskets
22 Float Hanger
23 Float Chamber Vent
24 Pump Fulcrum Arm
25 Pump Piston Link
26 Felt Dust Washer
27 Retainer Washer
28 Dust Washer Spring
29 Spring Retainer Washer
30 Pump Duration Spring
31 Pump Piston
32 Pump Expansion Spring
33 Pump Relief Valve
34 Power Pump By Pass Jet
35 Pump Inlet Check Valve
36 Pump Discharge Channel
37 Pump Discharge Nozzle
38 Spark Control Hole
39 Fuel Level Sight Plug
40 Throttle Stop Screw
41 Pump Rod

Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **5/8"** below top surface of float chamber (without gasket) or level with bottom of the level sight hole at 3 lbs pressure To correct fuel level, hold air horn in inverted position Place **Tool T-24971** on gasket. Tops of floats should be level with tops of vertical guides, which will give approximate fuel level, change if necessary Sides of floats should be tangent to guides of tool without drag

MAIN METERING SYSTEM—Venturi **1⅛"**; Main Discharge Jet **No. 28-36** P-22603 **(Tool T-24967)**; High Speed Bleeder **No. 65** P-22369, Main Metering Jet **.051"** P-22660 **(Tool T-24924)**; **(Tool T-19099)** used to remove main jet plug, Main Metering System controls the flow of fuel up to approximately 70 to 75 M P H

POWER SYSTEM—Combination Power and Pump By-Pass Jet **No. 63** P-19447, Pump piston to rest on seat of by-pass jet (less over-travel) with throttle valve opened **21/64"** + — **1/64"** (measure with shank end of **21/64"** drill) adjust by bending pump fulcrum arm at ball joint end The Power Jet is brought into action at approximately 70 to 75 M P. H.

ACCELERATION — Pump Discharge Nozzles **No. 65**; Pump capacity **18** to **22** c c per 10 fast strokes and **18** to **22** c c per 10 slow strokes (Minimum setting) **(Tool T-24972).** Pump action takes place during acceleration period only

IDLE SYSTEM—Idle Discharge Holes **No. 54-55**; with throttle valve fully closed and **No. 55** drill in idle hole, edge of valve is located **.022"** + — **.004"** from **No. 55** drill, Idle Air Bleed **No. 40** (in main body) **No. 60** (in idle tube); Idle Tube **No. 70** P-23110 **Adjustment:** Adjust to smooth running, one barrel at a time, OUT to make richer and IN to make leaner Throttle at 7 to 8 M P H

DEFLOODER ADJUSTMENT—With throttle held in wide open position, choke valve should be open so that a **7/32"** drill can be placed between choke valve and air horn The amount of opening can be changed by bending the choke stem pin or deflooder rod

FLANGE GASKET—P-18165.

SPECIAL TOOLS REQUIRED—Use Cadillac complete Tool Kit **SER. 361**; T-24971 Float Gauge; T-24967 Main Discharge Jet Remover, T-24924 Main Metering Jet Wrench, T-24970 By-Pass Jet and Check Valve Tester, T-24972 Pump Capacity Burrette Gauge, T-24968 Handle, T-24733 Choke Valve Bending Tool, T-19099 Main Jet Plug Screw Driver

MOTOR TUNE-UP DATA

SPARK PLUGS—.027".
Clean and adjust at regular intervals.

DISTRIBUTOR—.0125" to .0175".
Breaker gap set .0125" to .0175".
Replace if necessary.

VALVES—Intake:
Exhaust: **Automatic take-up.**

IGNITION TIMING—Breaker contacts to open for No. 1 cylinder when mark "IGIA" on harmonic Balancer is in line with pointer.

SERVICE RECOMMENDATION — Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

GENERAL DESCRIPTION AND ADJUSTMENT OF AUTOMATIC CHOKE CONTROL

In the Stromberg Model "AA 25' carburetor the automatic choke control is built completely into the carburetor The principle of operation is the same as that used on the previous Cadillac models The tension of the thermostat is controlled by an electric heat unit connected directly to the choke valve stem making the entire unit intact The vacuum piston used to open the choke valve, when the engine begins to fire is also built into the body In the Model "AA 25" carburetor the fast idle feature which supplies fuel during cranking period and keeps the engine from stalling while warming up is accomplished by a passage entering the throttle barrel below the throttle valve to feed the additional fuel with closed throttle This design eliminates all external parts and adjustments used in the previous method of fast idle Figs 1 4 show the automatic choke control and fast idle in the various stages of operation

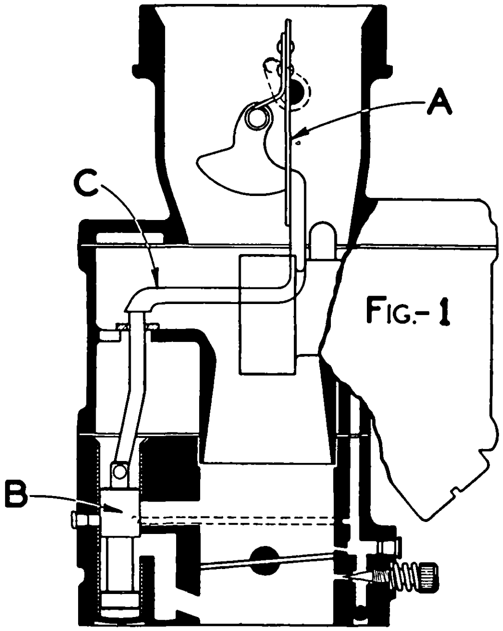


FIG.-1

CHOKE OPEN — SLOW IDLE — ENGINE HOT

Fig 1 shows the choke valve "A' in wide open position, which it will be when a hot motor is stopped In this illustration the carburetor is shown at slow or curb idle which should be adjusted by the throttle stop screw at 6 M P H with a hot engine and is the only adjustment required for the slow and fast idling of the engine

Vacuum piston "B" shown in the "lower" position, is connected to the choke valve by link "C In addition to the piston opening the choke valve, it also controls the duration of the fast idle period The thermostat is connected to the carburetor choke valve stem

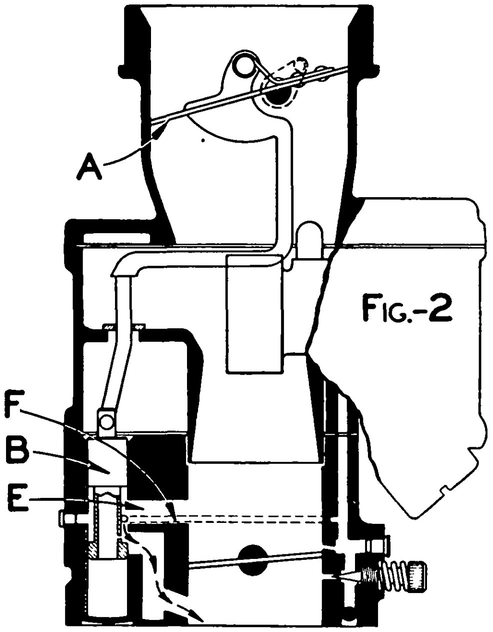


FIG.-2

CHOKE CLOSED — FAST IDLE

As the engine becomes cold, the thermostat also cools and gradually gains tension to close choke valve "A" With this movement, vacuum piston "B" is raised, opening fast idle passage ' E ' so that air is drawn through "E" during the fast idle period The suction of the air draws fuel from passage "F" to supply the additional fuel for the fast idle During the cranking of the engine the choke valve remains in the position shown in Fig 2

CHOKE PARTIALLY OPEN — ENGINE FIRING — FAST IDLE

As the engine begins to fire and a manifold vacuum is created vacuum piston "B" is pulled down to the position where the upper side hole in the piston is exposed to air taken through passage E stopping the pull on the piston With this action the choke valve opens slightly to admit sufficient air for running The air flowing through passage E draws fuel from passage F for the fast idle mixture

ADJUSTING: The pull of the vacuum piston should be set in accordance with the choke valve opening Remove drive plug from channel F and insert shank end of a new No 34 Drill (111) The choke valve should be opened until the piston comes to rest on the No 34 drill In this position the choke valve should be opened so that a **11/32"** drill can be placed between the valve and the air horn **Tool T-24733** can be used to change the opening by bending the lever between the choke valve and the piston link

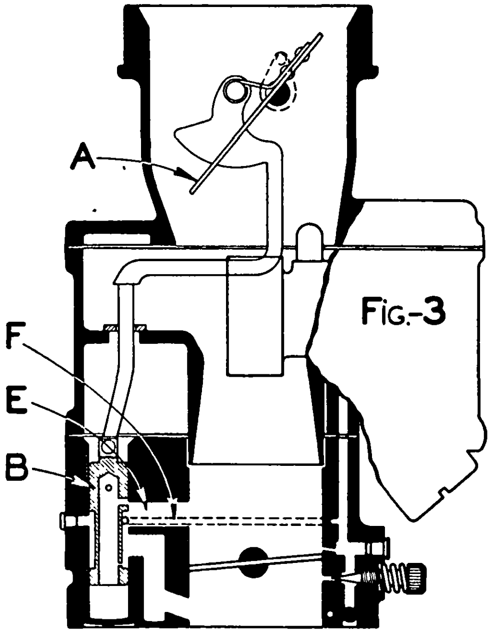


FIG.-3

ENGINE WARM — SLOW IDLE

The choke valve in the carburetor being off center continues to open by the force of the inrushing air which works against the tension of the thermostat until the thermostat absorbs sufficient heat so that it will not offer any resistance As the choke valve A opens it allows the vacuum piston B to lower until the piston closes passage E cutting off the supply of air and gas used for fast idle Fuel is then only taken through the regular idle discharge holes N

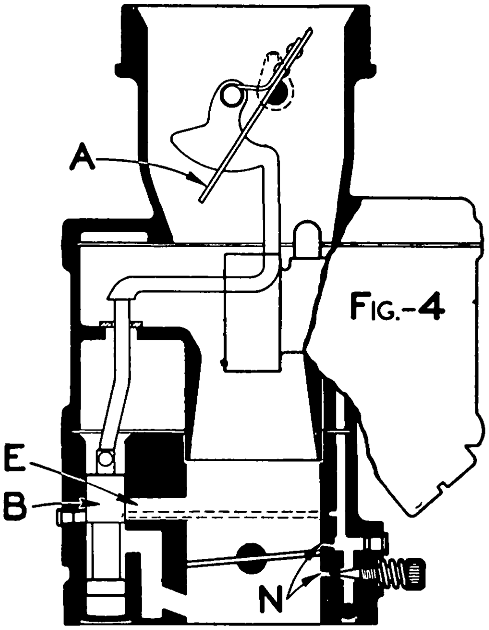


FIG.-4

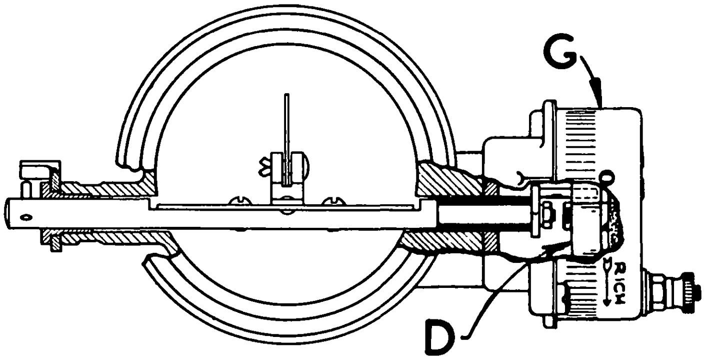
ADJUSTING THERMOSTAT

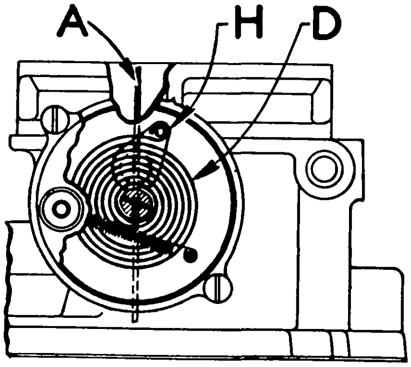
1 Remove thermostat case G allowing thermostat D to cool or warm until it has reached the temperature of 70° THIS IS VERY IMPORTANT

2 When the thermostat reaches 70° the inside of hook H of the thermostat should coincide with the zero marking on the thermostat case which is the original setting made at the factory When installing a new thermostat or other new parts check the zero location very carefully at 70° temperature and change the location if necessary If it is impossible for the thermostat to reach 70° you can provide for the difference by allowing one graduation on thermostat case for every 5° variation in temperature of the thermostat

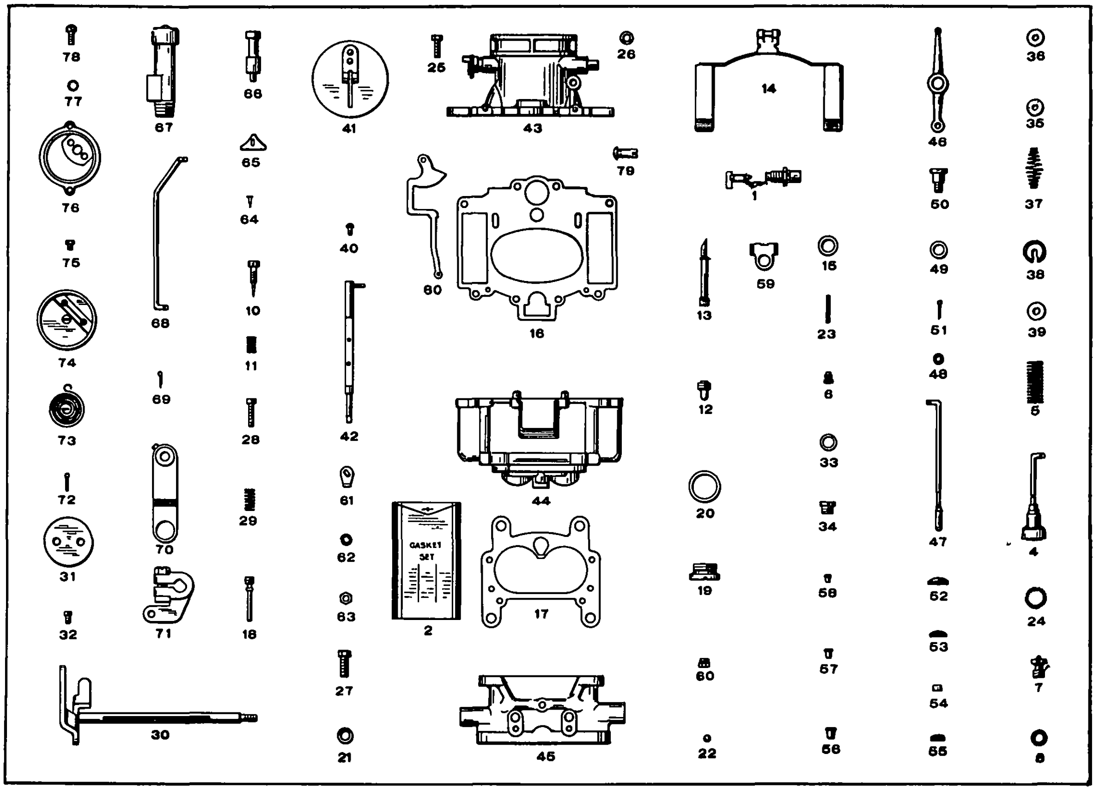
3 To adjust thermostat reassemble case onto the air horn so that hook H comes into contact with pin on the lever without any tension and with choke valve A in wide open position The zero marking on the case will then coincide with the notch on the air horn

4 Revolve thermostat case **seventeen** notches rich as indicated by the arrow and fasten screws securely





CADILLAC 1937 STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No.	Part No.	Part Name	
	1	P-22499	Float Needle Valve Seat & Clip— 101′	(NOT VAR.)
	2	J-4783-G	Complete Gasket Set	
	4	P-22612	Pump Piston and Link	(Includes P 21568 Spring)
	4-A	P 22646	Pump Piston Link and Spring (Complete)	
	5	P-19458	Spring—Pump Duration	
	6	P-18144	Pump Inlet Check Valve	
	7	*P-19447	Power By-Pass Jet No 63	(NOT VAR.)
	8	P-19448	Gasket—By-Pass Jet	
	10	P-15478	Idle Needle Valve	
	11	P-18710	Spring —Idle Needle Valve	
	12	**P-22660	Metering Jet .051″	(VAR.)
	13	P-22603	Main Discharge Jet—No 28 36	(NOT VAR.)
	14	P 22433	Float with Lever	
	15	P-2885	Gasket—Float Needle Valve Seat	
	16	P-22885	Gasket—Air Horn	
	17	P 22427	Gasket—Main Body	
	18	*P 23110	Idle Tube	
	19	P-21767	Plug—Main Discharge Jet	
	20	P-22851	Gasket—Main Discharge Jet Plug	
	21	P-3157	Lockwasher—Main Body Attaching Screw	
	22	P-18772	Lead Ball	
	23	P-22439	Pin—Fulcrum—Float Lever	
	24	P-21568	Spring—Pump Piston Leather Expansion	
	25	P-2475	Screw—Air Horn Attaching	
	26	P-6668	Lockwasher—Air Horn Attaching Screw	
	27	P 709	Screw—Main Body Attaching	
	28	P 16586	Screw—Throttle Stop	
	29	P-15831	Spring—Throttle Stop Screw	
	30	P-22775	Throttle Lever and Stem	
	31	P-22752	Throttle Valve (5°)	(NOT VAR.)
	32	P-16716	Screw—Throttle Valve Attach	
	33	P-7338	Gasket—Check Valve Plug	
	34	P-19716	Plug—Check Valve	
	35	P-17380	Washer—Felt	
	36	P-17060	Washer—Splash—Pump Link	
	37	P-22643	Spring—Packing Retainer	
	38	P-22045	Washer—Cup	
	39	P-22046	Washer—Spring Retainer	
	40	P 22573	Screw—Choke Valve Attach	
	41	P-22585	Choke Valve	
	42	P-22608	Assembly Choke Stem and Pin	
		P-22642	Pin—Choke Stem	
	43	*P-22886	Air Horn	
		P-21045	Choke Stem Bushing	
		P17996	Loose Lever Bushing	
		P-22550	Loose Lever	
		P-22883	Vent Tube	
	43 A	*P-22903	Air Horn & Valve Complete with Therm Housing	
	44	P-22566	Assy —Main Body 1⅛″ Venturi **No. 65** H S Bleeder **No. 65** Pump Disch Tube and **No. 40** Idle Air Bleed	(VAR).
		P 22369	High Speed Bleed **No. 65**	(VAR)
		P-19430	Pump Disch Tube Wedge	
		P-22651	Pump Disch Tube (Left)	
		P-22650	Pump Tube (Right)	
		P 8495	Expansion Plug	

Bin Location	Key No.	Part No.	Part Name	
	45	P-22547	Throttle Body **No. 54-55** Idle Disch Hole	(VAR.)
	46	P 22430	Pump Lever	
	47	P-22620	Pump Rod	
	48	P-9394	Washer—Pump Rod	
	49	P-19820	Spring—Washer—Pump Lever Fulcrum Screw	
	50	P-20611	Screw—Fulcrum—Pump Lever	
	51	P-7170	Cotter Pin—Pump Link and Pump Rod	
	52	P 20782	Plug Expansion, Vacuum Piston	
	53	P-21054	Plug—Expansion Vacuum Piston Channel	
	54	P 20884	Plug—Vacuum Piston Channel	
	55	P 12777	Plug—Vent Tube Boss	
	56	P 15459	Plug—Idle Discharge Hole ¼	
	57	P 15458	Plug—Idle Discharge No 10	
	58	P-15457	Plug—Vacuum Piston Channel	
	59	P-22441	Float Hanger	
	60	P-6406	Plug—Fuel Level Sight	
	61	P-22852	Lever—Thermostat	
	62	P-15875	Lockwasher—Therm Lever Attach Nut	
	63	P 16571	Nut—Therm Lever Attach	
	64	P-20973	Rivet—Vacuum Piston	
	65	P-22657	Cover—Vacuum Piston Link Channel	
	66	P-22586	Vacuum Piston	
	67	P-22879	Vent Stack	
	68	P-22556	Rod—Deflooder	
	69	112-S-1	Cotter Pin—Deflooder Rod	
	70	P-22557	Throttle Lever—Loose—with Wire Conn & Screw	
		P-506	Wire Connector Screw	
	71	P-22559	Assy —Loose Lever Stop	
		P-22560	Stop	
		P-18300	Stop Clamp Screw	
		P-18299	Stop Clamp Screw Nut	
	72	P-4	Cotter Pin	
	73	P 21507	Thermostat	
	74	P-22936	Assy —Thermostat Unit	
	74 A	P 22935	Thermostat Unit (Complete)	
	75	P-21596	Screw—Thermostat Unit Attach	
	76	P-21009	Housing—Thermostat Unit	
	77	P 15346	Lockwasher—Housing Attach Screw	
	78	P12016	Screw—Thermostat Housing Attach	
	79	P-22579	Pin—Fast Idle Link Fulcrum	
	80	P 22553	Link—Fast Idle Piston	

When servicing or ordering for the above carburetor check the following

When using (old style) Air Horn ***P 22548** which does not have external float vent stack **P-22879** and internal vent tube **P-22883** it is necessary to use –

***P 22658** By Pass Jet (2—No 63 feed holes) in place of **P 19447** By-Pass Jet (1 —No 63 Feed Hole)

***P 22660** .53′ Metering Jet in place of **.051″**.

***P-19874** Idle Tube in place of **P 23110.**

****P 22660** Metering Jet (New Style) is identified by a groove around the nut end of the Jet, replace **P-19442** Metering Jet (old style)

NOTE—For parts marked (VAR) size must be specified when ordering.

BENDIX PRODUCTS DIVISION
South Bend Of Bendix Aviation Corporation Indiana

Printed in U S A.

STROMBERG "EE-25" CARBURETOR

STROMBERG NO A-18202 CADILLAC SYMBOL 1411726

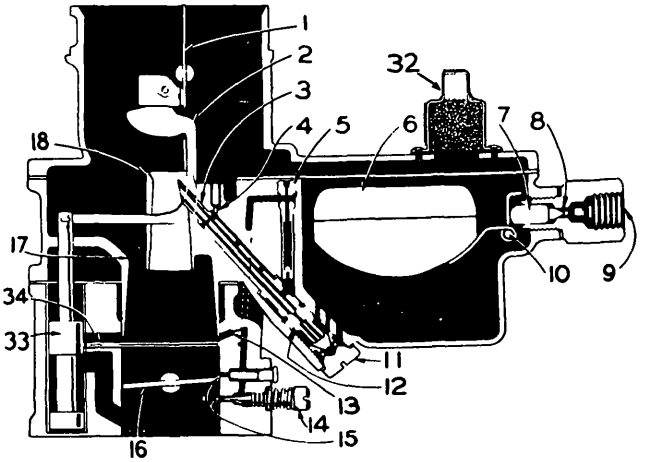
SIZE: 1¼" DUAL D. D. 4 HOLE FLANGE

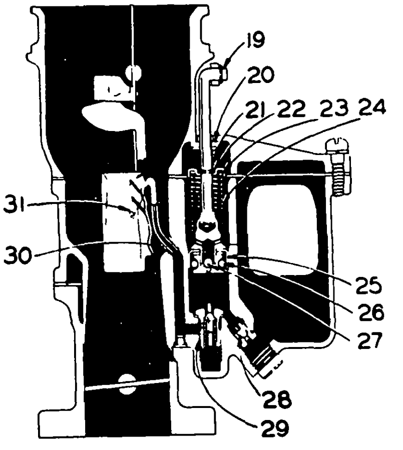
REPLACE WITH AAV-26 EQPT. J 5547

1936
CADILLAC
MODELS
36-60, 36-75
3⅜"–3½"x4½"—8 cyl.

PARTS ILLUSTRATED

1 Choke Valve
2 Vacuum Piston Link
3 Main Discharge Jet
4 High Speed Bleeder
5 Idle Tube
6 Float
7 Float Needle Valve
8 Float Needle Valve Seat
9 Gasoline Inlet
10 Float Fulcrum Pin
11 Main Discharge Jet Plug
12 Main Metering Jet
13 Idle Air Bleeder
14 Idle Needle Valve
15 Idle Discharge Holes
16 Throttle Valve
17 Primary Venturi
18 Auxiliary Venturi
19 Pump Piston Link
20 Dust Washer
21 Dust Washer Spring
22 Spring Retainer Lock
23 Spring Retainer Washer
24 Pump Duration Spring
25 Pump Piston
26 Pump Piston Expansion Spring
27 Pump Relief Valve
28 Pump Inlet Check Valve
29 Power & Pump By Pass Jet
30 Pump Discharge Nozzle Holder
31 Pump Discharge Nozzle
32 Float Chamber Vent
33 Automatic Choke Piston
34 Fast Idle Air Passage





Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **5/8"** below top surface of float chamber (without gasket) at 3 lbs pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level)

MAIN METERING SYSTEM—Venturi **1-3/16"; Main** Discharge Jet **No. 36** P-18338, **(Tool T-24967);** High Speed Bleeder **No. 67** (in body), Main Metering Jet **.058"** P-17004 **(Tool T-23844) (Tool T-19099)** used to remove Main Jet Plug, Main Metering System controls the flow of fuel up to approximately 70 to 75 M P H

POWER SYSTEM—Combination Power and Pump By-Pass Jet **4 No. 56** P-18149; Pump piston to rest on seat of by-pass jet (less over-travel) with throttle valve opened **21/64" + – 1/64"** (measure with shank end of 21/64" drill), adjust by bending pump rod The Power Jet is brought into action at approximately 70 to 75 M. P. H.

ACCELERATION — Pump Discharge Nozzles **No. 56;** Pump capacity **11** to **11** c c per 10 fast strokes and **18** to **22** c c per 10 slow strokes (Minimum setting) **(Tool T-24972).** Pump action takes place during acceleration period only

IDLE SYSTEM—Idle Discharge Holes **No. 56-60;** with throttle valve fully closed and **No. 60** drill in idle hole edge of valve is located **.030" + – .004"** from **No. 60** drill, Idle Air Bleed **No. 42** P-15477, Idle Tube **No. 70** P-17007 **Adjustment:** Adjust to smooth running one barrel at a time, OUT to make richer and IN to make leaner Throttle at 7 to 8 M P H

VACUUM SPARK CONTROL—With throttle fully closed and **No. 56** drill in spark hole, edge of valve is located **.031" + – .006"** from **No. 56** drill

FLANGE GASKET—P 18165

SPECIAL TOOLS REQUIRED—Use Cadillac complete Tool Kit **SER. 361;** T-24733 Float Adjuster, T-24967 Main Discharge Jet Remover, T-23844 Main Metering Jet Wrench, T 24970 By-Pass Jet and Check Valve Tester, T-24972 Pump Capacity Burrette Gauge, T-24968 Handle, T-19099 Main Jet Plug Screw Driver

MOTOR TUNE-UP DATA

SPARK PLUGS—.025" to .030".
Clean and adjust at regular intervals.

DISTRIBUTOR—.0125" to .0175".
Breaker gap set .0125" to .0175".
Replace if necessary.

VALVES—Intake:
Exhaust: Automatic take-up.

IGNITION TIMING—Breaker contacts to open for No. 1 cylinder when harmonic balancer is in line with pointer.

SERVICE RECOMMENDATION — Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

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GENERAL DESCRIPTION AND INSTRUCTIONS OF AUTOMATIC CHOKE CONTROL

In the Stromberg Model EE 15 carburetor the automatic choke control is built completely into the carburetor The principle of operation is the same as that used on the previous LaSalle models with the exception that the tension of the thermostat is controlled by an electric heat unit instead of using the heat of the exhaust gas The vacuum piston used to open the choke valve when the engine begins to fire is also built into the body In the design there is also incorporated a semi manual control by which the choke valve may be manually closed or part way opened by the operator if so desired In the Model 'EE 15 carburetor the fast idle feature which supplies fuel during cranking period and keeps the engine from stalling while warming up is accomplished by a passage entering the throttle barrel below the throttle valve to feed the additional fuel with closed throttle This design eliminates all external parts and adjustments used in the previous method of fast idle Figs 1 4 show the automatic choke control and fast idle in the various stages of operation

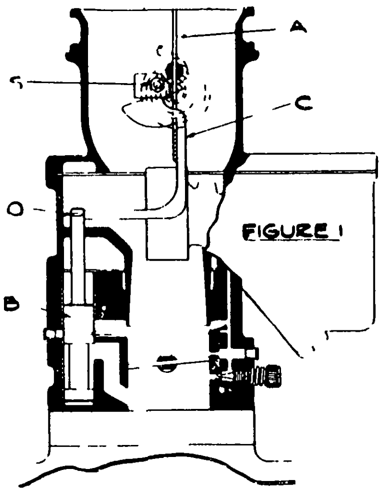


FIGURE 1

CHOKE OPEN—SLOW IDLE—ENGINE HOT

Fig 1 shows the choke valve A in wide open position which it will be when a hot motor is stopped In this illustration the carburetor is shown at slow or curb idle which should be adjusted by the throttle stop screw at 6 m p h with a hot engine and is the only adjustment required for the slow and fast idling of the engine

Vacuum piston B shown in the lower position is connected to the choke valve by link C In addition to the piston opening the choke valve it also controls the duration of the fast idle period The thermostat is connected to the carburetor choke valve stem

CAUTION To remove air horn proceed as follows Remove air horn and float chamber cover screws Raise the entire assembly so that pin O is brought to the gasket surface where it can be removed DO NOT TAMPER WITH NUT S AS THIS IS SET AT THE FACTORY AND SHOULD NOT BE CHANGED When reassembling make certain that pin is fastened securely

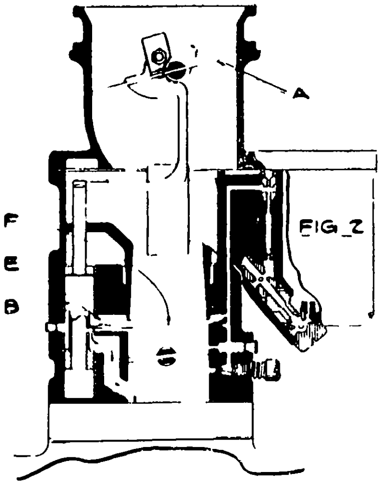


FIG 2

CHOKE CLOSED—FAST IDLE

As the engine becomes cold the thermostat also cools and gradually gains tension to close choke valve A With this movement vacuum piston B is raised opening fast idle passage E so that air is drawn through E during the fast idle period following the path of the arrow The suction of the air draws fuel from passage F to supply the additional fuel for the fast idle During the cranking of the engine the choke valve remains in the position shown in Fig 2

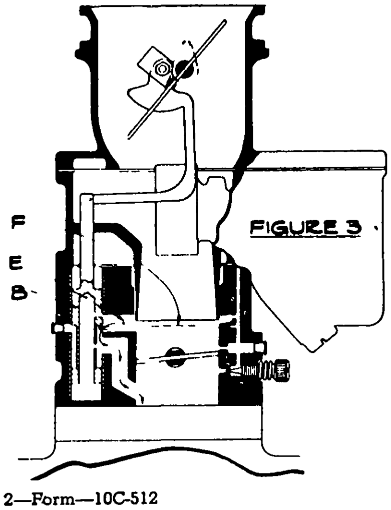


FIGURE 3

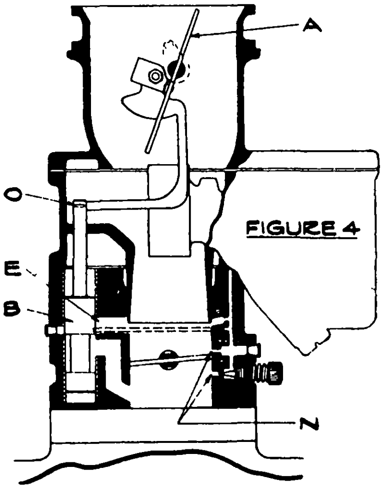
CHOKE PARTIALLY OPEN—ENGINE FIRING—FAST IDLE

A the engine begins to fire and a manifold vacuum is created vacuum piston B is pulled down to the position where the upper side hole in the piston is exposed to air taken through passage E stopping the pull on the piston With this action the choke valve opens slightly to admit sufficient air for running The air flowing through passage E draws fuel from passage F for the fast idle mixture

ADJUSTING The pull of the vacuum piston should be set in accordance with the choke valve opening Remove drive plug from channel F and insert shank end of new No 34 drill (111) The choke valve should then be opened until the piston comes to rest on the No 34 drill In this position the choke valve should be opened so that a 15/64 drill can be placed between the valve and the air horn Change of position can be made by loosening the nut between the lever and the link

ENGINE WARM—SLOW IDLE

The choke valve in the carburetor being off center continues to open by the force of the inrushing air which works against the tension of the thermostat until the thermostat absorbs sufficient heat so that it will not offer any resistance As the choke valve "A" opens, it allows the vacuum piston "B" to lower until the piston closes passage "E" cutting off the supply of air and gas used for fast idle Fuel is then only taken through the regular idle discharge holes "N"



ADJUSTING THERMOSTAT

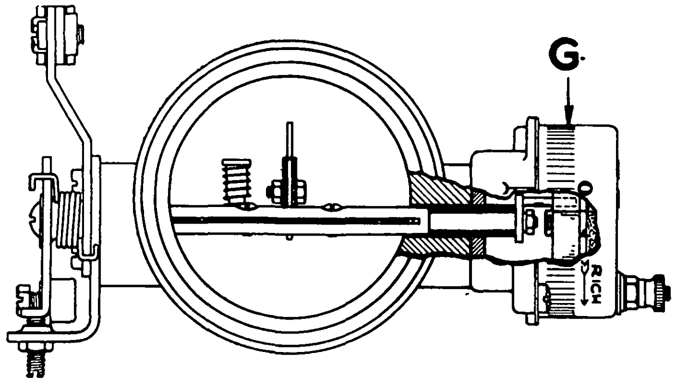
To adjust thermostat refer to illustrations below

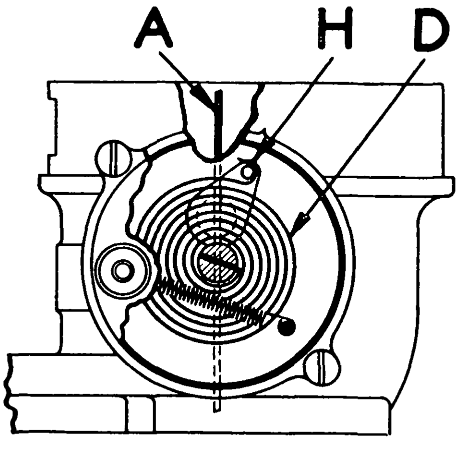
1 Remove thermostat case "G", allowing thermostat "D" to cool or warm until it has *reached the temperature of 70°* THIS IS VERY IMPORTANT

2 When the thermostat reaches 70°, the inside of hook "H" of the thermostat should coincide with the "zero" marking on the thermostat case which is the original setting made at the factory When installing a new thermostat or other new parts, check the zero location very carefully at 70° temperature and change the location if necessary If it is impossible for the thermostat to reach 70° you can provide for the difference by allowing one graduation on thermostat case for every 5° variation in temperature of the thermostat

3 To adjust thermostat reassemble case onto the air horn so that hook "H" comes into contact with pin on the lever without any tension and with choke valve "A" in wide open position The zero marking on the case will then coincide with the notch on the air horn

4 Revolve thermostat case sixteen notches rich as indicated by the arrow and fasten screws securely





MANUAL CHOKE CONTROL

The choke may also be operated manually independently of the automatic system for the operator who desires to do so In the three illustrations, A B and C are shown various positions of the mannual choke In the normal or middle position the control is illustrated in Fig A with the choke button on the instrument panel flush with the throttle button and full action of the automatic choke control is permitted The choke button is held in this position by a light pressure snap spring As the choke button on the instrument panel is pulled out its entire length of travel, the manual control takes the position shown in Fig B In this case the carburetor is choked manually, independently of the automatic control When the choke button is pushed in beyond its normal position, past the snap spring the automatic control is prevented from closing the choke valve—this is illustrated in Fig C

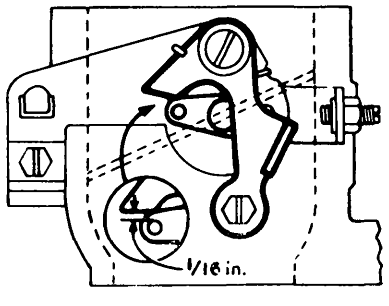


FIG. A
Position for operation of automatic choke control.

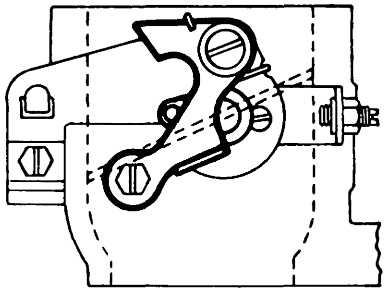


FIG. B
Manual Choke Position.

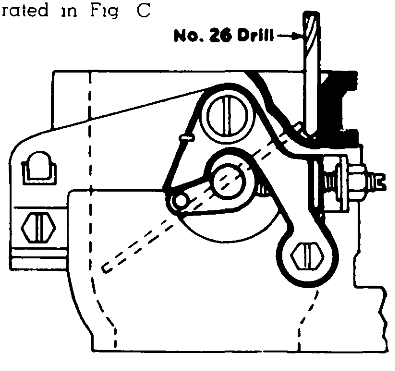
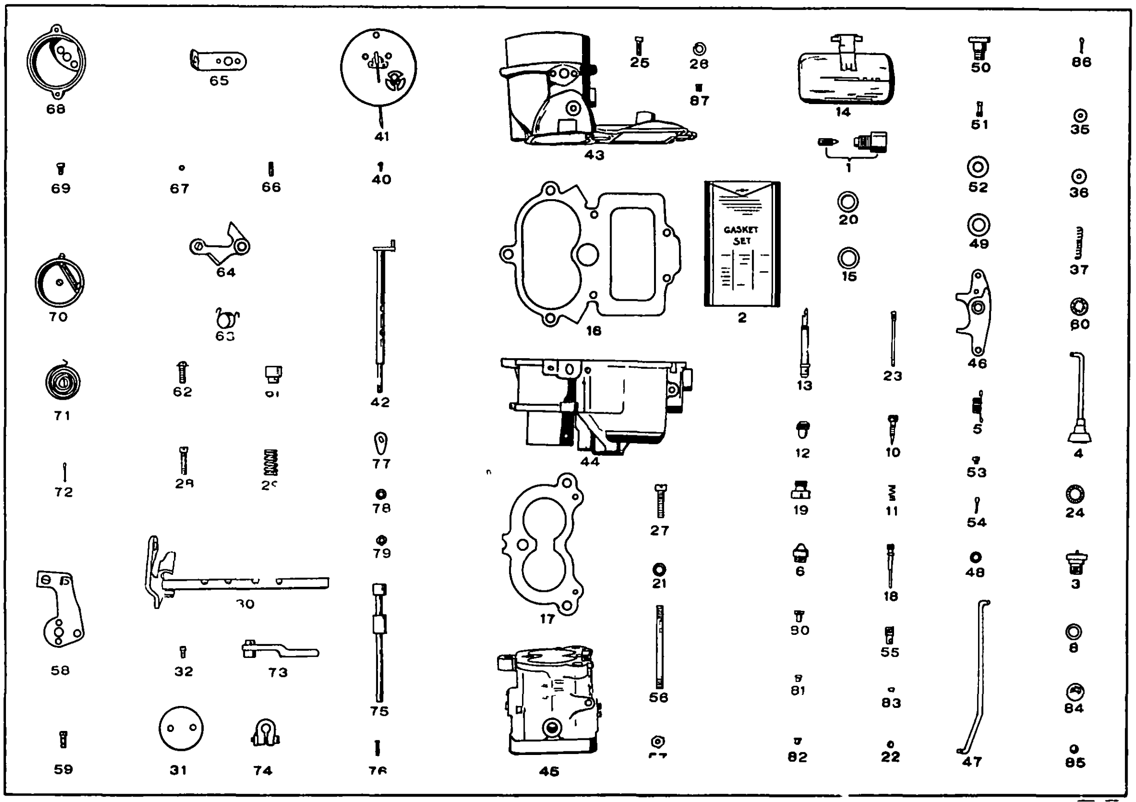


FIG. C.
Choke Valve Held Partially Closed.

MANUAL CONTROL ADJUSTMENT

To adjust the manual control have the control lever against the stop screw In this position the choke valve should be open sufficiently to allow a No 26 drill to be placed between the upper edge of the choke valve and the air horn If necessary, adjust top screw to provide this opening of the choke valve The choke button on the dash should also be in normal position flush with the throttle button when the choke control on the carburetor is in the position shown in Fig A and there should be a clearance of approximately $\frac{1}{16}$" between the pin on the choke shaft lever and the short end of the "V" shaped lever to which the choke button wire is attached

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No.	Part No	Part Name	
	1	P 22487	Float Needle Valve & Seat 113	(NOT VAR)
	2	J 4609 G	Complete Gasket Set	
	3	P 18149	Power By Pass Jet 4 No 56	(NOT VAR)
	4	P 17073	Pump Piston & Link	(Includes P 16960 Spring)
	5	P 18513	Spring—Pump Duration	
	6	P 16990	Pump Inlet Check Valve	
	8	P 6855	Gasket By Pass Jet	
	10	P 17402	Idle Needle Valve	
	11	P 18710	Spring -Idle Needle Valve	
	12	P 17004	Metering Jet **058"**	(VAR)
	13	P 18338	Main Disch Jet No 36	(NOT VAR)
	14	P 17926	Float with Lever	
	15	P 10666	Gasket—Float Needle Valve Seat	
	16	P 17923	Gasket- Air Horn	
	17	P 21516	Gasket—Main Body	
	18	P 17007	Idle Tube No 70	(NOT VAR)
	19	P 18130	Plug—Main Disch Jet	
	20	P 60308	Gasket—Main Disch Jet Plug	
	21	P 3157	Lockwasher -Main Body Attach Screw	
	22	P 18772	Lead Ball	
	23	P 17939	Pin—Fulcrum Float Lever	
	24	P 16960	Spring— Pump Piston Leather Expansion	
	25	P 46	Screw—Air Horn Attach	
	26	P 6668	Lockwasher Air Horn Attach Screw	
	27	P 15554	Screw -Main Body Attach	
	28	P 15456	Screw Throttle Stop	
	29	P 15831	Spring- Throttle Stop Screw	
	30	P 21384	Throttle Lever and Stem	
	31	P 19850	Throttle Valve (5°)	(VAR)
	32	P 16716	Screw—Throttle Valve Attach	
	35	P 17380	Washer—Pump Felt	
	36	P 17060	Washer Splash—Pump Link	
	37	P 17592	Spring Felt Retainer	
	40	P 4522	Screw—Choke Valve Attach	
	41	P 21380	Choke Valve (Complete)	
		P 21383	Vac Piston Link	
		P 20882	Vac Piston Link Fulcrum Screw	
		P 9283	Vac Piston Link Fulcrum Screw Nut	
		P 20883	Vac Piston Link Fulc Screw Nut Lockwasher	
		P 24539	Choke Valve	
	42	P 21378	Choke Stem and Lever	
	43	P 21377	Air Horn	
		P 18716	Vent Cap	
		P 12167	Vent Cap Screw Lockwasher	
		P 2369	Vent Cap Screw	
		P 21044	Choke Stem Bushing	
		P 21045	Choke Stem Bushing	
	43 A	P 21376	Air Horn Valve & Therm Housing (Complete)	
	44	P 21386	Assy Main Body **1 3/16'** Venturi **No 67** H S Bleeder & **No 56** Pump Disch Tubes	(VAR)
		P 21388	Pump Disch Tube (Right) No 56	(NOT VAR)
		P 21389	Pump Disch Tube (Left) No 56	(NOT VAR)
		P 19430	Pump Tube Wedge	
	45	P 21505	Assy Throt Body **No 56 60** Idle Disch Holes **No 56** Spark Control Hole	(VAR)

Bin Location	Key No.	Part No	Part Name	
	46	P 16976	Pump Lever	
	47	P 21579	Pump Rod	
	48	P 9394	Pump Rod Washer	
	49	P 17133	Spring Washer -Pump Fulcrum Screw	
	50	P 16973	Screw- Pump Lever Fulcrum	
	51	P 17027	Screw -Pump Lever Fulcrum Screw Lock	
	52	P 17009	Washer Pump Lever Fulcrum Screw	
	53	P 6970	Screw -Pump Lever Stop	
	54	P 19374	Cotter Pin Pump Link & Rod	
	55	P 15477	Idle Air Bleeder- **No 42**	(VAR)
	56	P 21506	Stud Air Horn Attach	
	57	P 16598	Nut—Air Horn Attach Stud	
	58	P 17067	Assy Tube Holder	
		P 17051	Tube Holder	
		P 11561	Tube Holder Clamp	
		P 12868	Tube Holder Clamp Screw	
		P 8806	Clamp Screw Nut	
	59	P 12016	Screw—Tube Holder & Therm Housing Attach	
	60	P 15346	Lockwasher—Tube Holder & Therm Hous Attach Screw	
	61	P 17058	Bushing——Choke Lever Fulcrum Screw	
	62	P 17059	Screw—Choke Lever Fulcrum	
	63	P 17132	Spring—Choke Lever Return	
	64	P 21046	Choke Lever with Wire Clamp and Screw	
		P 12867	Wire Clamp Screw	
	65	P 21003	Bracket Choke Lever Stop	
	66	P 21043	Screw -Choke Lever Stop	
	67	P 16639	Nut—Choke Lever Stop Screw Lock	
	68	P 21009 A	Housing—Thermostat Unit	
	69	P 21596	Screw—Thermostat Unit Housing Attach	
	70	P 21515	Thermostat Unit	
	71	P 21507	Thermostat	
	72	P 4	Cotter Pin—Housing & Therm Assy	
		P 21508	Therm Unit (Complete) Items No 70 -No 71—No 72 (Assy)	
	73	P 15784	Lever—Loose	
		P 9270	Wire Clamp Screw	
	74	P 17287	Stop—Loose Lever	
		P 17315	Stop	
		P 9025	Clamp Screw	
		P 4517	Clamp Screw Nut	
	75	P 21390	Piston—Vacuum	
	76	P 20973	Rivet—Vacuum Piston	
	77	P 22852	Lever—Thermostat	
	78	P 15875	Lockwasher—Therm Lever Attach Nut	
	79	P 16571	Nut—Therm Lever Attach	
	80	P 15459	Plug—¼ Idle Drilling Hole	
	81	P 15458	Plug—No 10 Idle Disch Holes	
	82	P 15457	Plug—No 6 Drive Idle Air Bleed Channel	
	83	P 20884	Plug—Vac Piston Channel ¼	
	84	P 20782	Plug -Vac Piston Channel 17/32	
	85	P 21054	Plug—Vac Piston Channel 17/64	
	86	P 7170	Cotter Pin—Pump Link	
	87	P 6387	Plug Air Horn No 10 32	

NOTE—For parts marked (VAR) size must be specified when ordering

South Bend **BENDIX PRODUCTS DIVISION** Indiana
Of Bendix Aviation Corporation
Printed in U S A

STROMBERG SF-2 CARBURETOR

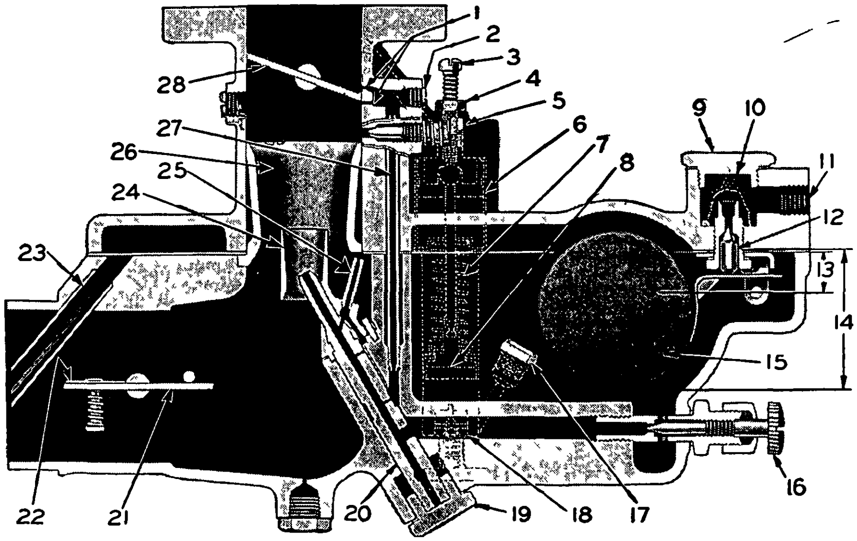
STROMBERG NO. J-5653 (CODE NO. 14-20)

SIZE: 1-1/4" UPDRAFT S.A.E. 2-11/16" FLANGE CENTERS TAPPED 3/8-16

1939-40
Chevrolet
Truck
Model C.O.E.
3-1/2" x 3-3/4"—6 cyl.

PARTS ILLUSTRATED

1. Idle Discharge Holes
2. Idle Discharge Plug
3. Pump Adjustment Screw
4. Pump Adjustment Lock Screw
5. Idle Needle Valve
6. Vacuum Piston
7. Accelerating Pump Spring
8. Accelerating Pump Piston
9. Strainer Plug
10. Strainer
11. Gasoline Inlet
12. Float Needle Valve and Seat
13. Fuel Level (see instructions)
14. Float Setting (see instructions)
15. Float
16. Adjustable Metering Jet
17. Check Valve
18. Combination Power and Pump By-Pass Jet
19. Main Discharge Jet Nut
20. Main Discharge Jet
21. Choke Valve
22. Choke Poppet Valve
23. Vent Tube
24. Small Venturi
25. High Speed Bleed
26. Large Venturi
27. Idle Tube
28. Throttle Valve



Note—Specifications below are for latest production; previous major changes listed on parts page.

FUEL LEVEL—For measuring fuel level it is advisable to use on open vessel with a leveled top, large enough to support the throttle valve body and to accommodate the float assembly. Place main body gasket between body and vessel before checking. Connect gas line to inlet in throttle body and allow gas to feed into measuring vessel at **2 lbs.** pressure until flow is stopped by the closing of the float needle valve. Fuel level should measure **9/16"** below top surface of vessel (without gasket); use standard depth gauge for measuring fuel level. To correct fuel level hold throttle body in inverted position and set float to measure **1-3/4"** from top of float to gasket surface which will give approximate fuel level; change if necessary.

MAIN METERING SYSTEM—Venturi **1-1/16"**, P-16753; Main Discharge Jet **No. 32,** P-16773; (**Tool T-20180** used to remove main discharge jet plug). High Speed Bleeder **No. 60** P-16776; Main Metering Jet **Adjustable** P-12802. (Use new P-21372 main discharge jet gasket when replacing main discharge jet.)

POWER SYSTEM—Combination Power and Pump By-Pass Jet **.032"** P-16786 (**Tool T-20138**); Power System is brought into operation at **4"** to **6"** of manifold vacuum. Use Tool **T-23785** to remove pump inlet check valve.

ACCELERATION—Pump stroke adjusted by adjustment screw above pump vacuum piston. Screw "in" to shorten stroke, "out" to lengthen. Adjustment screw to be set **1/8"** below top surface of throttle body flange.

IDLE SYSTEM—Idle discharge holes **No. 58-66.** With throttle valve fully closed and **No. 58** drill in idle hole, edge of valve is located **Flush** + — **.004"** from **No. 58** drill. Idle tube **No. 68** P-16754; Adjust to smooth running, IN to make richer, OUT to make leaner.

VACUUM SPARK CONTROL—With throttle valve fully closed and No. 56 drill in spark hole, edge of valve is located **Flush** from No. 56 drill.

FLANGE GASKET—P-24137 or P-4752.

SPECIAL TOOLS REQUIRED—T-20139 Main Discharge and Metering Jet; T-20138 By-Pass Jet socket wrench; T-20180 Main Discharge Jet plug socket wrench; T-23785 Check Valve socket wrench; T-20182 Bushing and Vent tube remover; T-24972 Pump Burette Gauge.

MOTOR TUNE-UP DATA

SPARK PLUG—
Clean and adjust at regular intervals.

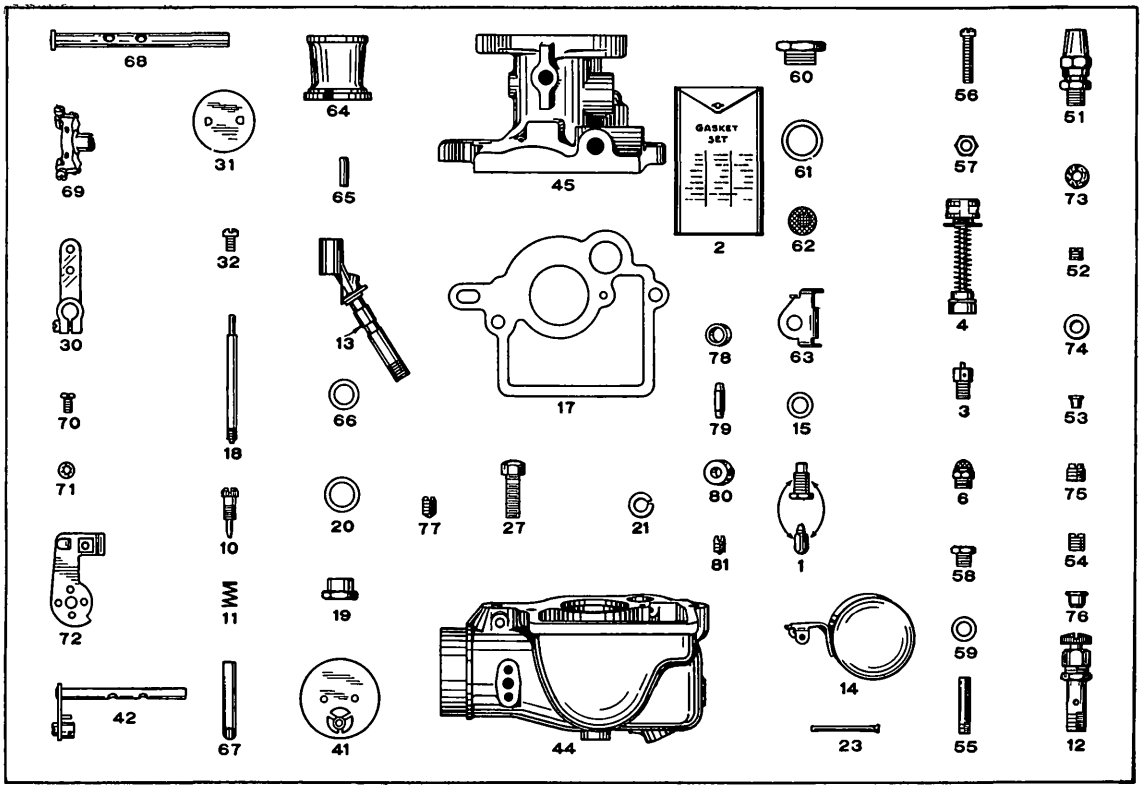
DISTRIBUTOR—Set breaker gap. Replace points if necessary.

IGNITION TIMING—Use timing light.

VALVES—Intake: Exhaust: Adjust with engine hot.

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Key No	Part No.	Part Name	
1	P 17282	Float Needle Valve and Seat 113″	(NOT VAR)
2	J 4222 G	Complete Gasket Set	
3	P 16786	Pump By Pass Jet **032″**	(VAR)
4	P 23133	Pump Piston Link and Spring (Complete)	
6	P 23135	Pump Inlet Check Valve	
10	P 15396	Idle Needle Valve	
11	P 12530	Spring—Idle Needle Valve	
12	P 12802	Adjustable Metering Jet	
13	P 16773	Main Discharge Jet No 32	(NOT VAR)
14	P 16767	Float with Lever	
15	P 11572	Gasket—Float Needle Valve Seat	
17	P 16756	Gasket—Main Body	
18	P 16754	Idle Tube	
19	P 16762	Plug—Main Discharge Jet	
20	P 5636	Gasket—Main Discharge Jet Plug	
21	P 6592	Lockwasher—Main Body Attach Screw	
23	P 16760	Fulcrum Pin—Float Lever	
27	P 16765	Screw—Main Body Attaching	
30	P 7085	Throttle Lever	
	P 3199	Screw—Throttle Lever Clamp	
31	P 16755	Throttle Valve	
32	P 16716	Screw—Throttle Valve and Choke Valve Attaching	
41	P 22929	Choke Valve	
42	P 22927	Choke Stem and Lever	
	P 10981	Screw—Choke Wire Clamp	
44	P 22884	Assy —Main Body	
45	P 22880	Assy —Throttle Body **No. 58-66** Idle Disch Holes **No 56** Spark Hole	(VAR)
51	P 3278	Gas Union	
52	P 7098	Plug—Vacuum Suction Channel	
53	P 15458	Plug—Pump Channel No 10	
54	P 12780	Plug—Idle Discharge Channel	
55	P 16776	High Speed Bleeder **No 60**	(VAR)
56	P 5546	Screw—Vacuum Pump Adj	
57	P 14618	Nut—Pump Adj Screw	

Key No.	Part No.	Part Name	
58	P 26	Plug—Gas Inlet	
59	P 6855	Gasket—Adj Metering Jet	
60	P 17140	Plug—Strainer	
61	P 22851	Gasket—Strainer Plug	
62	P 12958	Strainer—Gas	
63	P 16761	Float Hanger	
64	P 16753	Venturi Tube **1-1/16″**	(VAR)
65	P 16850	Pin—Main Disch Jet Locating	
66	P 21372	Gasket—Main Disch Jet	
67	P 16757	Vent Tube	
68	P 16793	Throttle Stem	
69	P 7041 K	Throttle Stop	
	P 12375	Screw—Idle Adj	
	P 2266	Screw—Idle Adj Clamp	
70	P 14646	Screw—Choke Tube Holder Attach	
71	P 15346	Lockwasher—Choke Tube Holder Attach Screw	
72	P 12823	Choke Tube Holder	
	P 12868	Screw—Choke Tube Clamp	
	P 8806	Nut—Choke Tube Clamp Screw	
73	P 14160	Washer—Idle Tube (Cork)	
74	P 22713	Washer—Idle Tube	
75	P 3292	Plug—Gov Conn	
76	P 20454	Plug—Idle Channel	
77	P 14745	Set Screw—Vent Tube	
78	P 13828	Bushing—Choke Lever Spacer	
79	P 3881	Pin—Choke Stem	
80	P 17081	Collar—Choke Stem	
81	P 16161	Set Screw—Choke Stem Collar	

FURNISHED EXTRA WITH EACH CARBURETOR

P 4752	Flange Gasket
P 24137	Flange Gasket
P 24286	Air Horn Sleeve

BENDIX PRODUCTS DIVISION

SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

STROMBERG BXOV-2 CARBURETOR

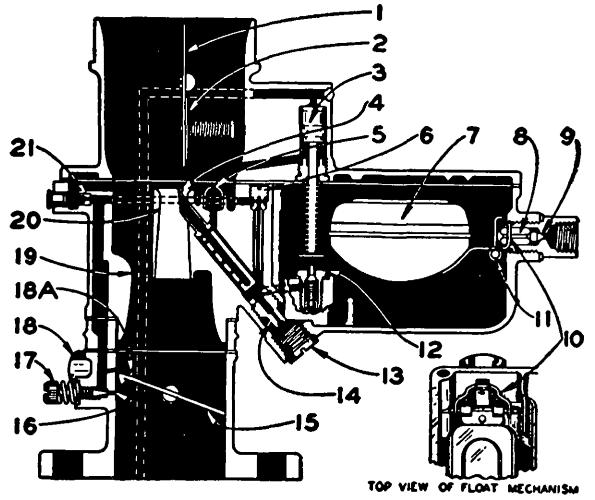
1932-40
Chevr l t
ALL MODELS

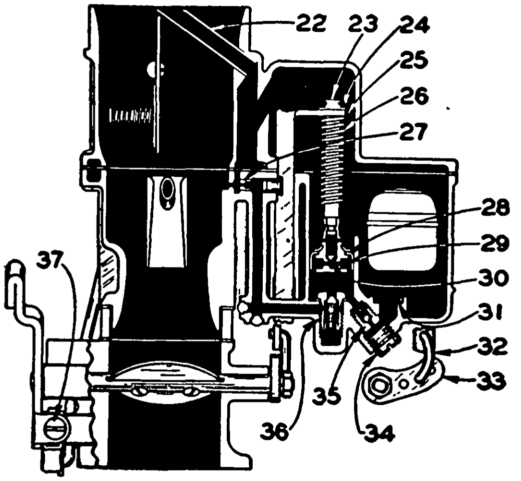
STROMBERG NO. A-19122 (CODE NO. 14-17B)

SIZE: 1-1/4" S.A.E. 2-11/16" FLANGE CENTERS

PARTS ILLUSTRATED

1. Choke Valve
2. Choke Relief Valve
3. Vacuum Power Piston
4. Main Discharge Jet
5. High Speed Bleeder
6. Idle Tube
7. Float
8. Float Needle Valve
9. Float Needle Valve Seat
10. Float Fulcrum Pin Clip
11. Float Fulcrum Pin
12. Power By-Pass Jet
13. Main Jet Plug
14. Main Metering Jet
15. Throttle Valve
16. Idle Discharge Holes
17. Idle Needle Valve
18. Vacuum Spark Conn.
18A. Vacuum Spark Hole
19. Primary Venturi
20. Auxiliary Venturi
21. Idle Air Bleed
22 Float Chamber Vent
23. Piston Conn. Rod
24. Cotter Pin
25. Pump Piston Rod
26. Pump Duration Spring
27. Pump Discharge Nozzle
28. Pump Piston
29. Pump Piston Exp. Spring
30. Pump Relief Valve
31. Pump Inlet Strainer
32. Pump Link
33 Pump Lever
34 Pump Inlet Plug
35 Pump Inlet Check Valve
36 Pump By-Pass Jet
37 Throttle Stop Screw





Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **5/8"** below top surface of float chamber (without gasket) at 3 lbs. pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level).

MAIN METERING SYSTEM—Venturi **1-3/32"**; Main Discharge Jet **No. 28-36** P-24313 (**Tool T-24967**); High Speed Bleeder **No. 70** P-23985; Main Metering Jet P-22660 **.053"** for cars 1937-38; **.054"** for cars 1932-36; **.055"** for cars 1939-40. (**Tool T-24924**); Use **Tool T-5164** Screw Driver for removing main jet plug. Main metering system controls the flow of fuel to approximately 65 to 70 M. P. H.

POWER SYSTEM—Power By-Pass Jet **No. 61** P-21198; Power jet to come into operation at 4" to 6" of manifold vacuum, which is approximately 65 to 70 M. P. H. Use **Tool T-24733** to remove vacuum power piston.

ACCELERATION—Pump Discharge Nozzle **No. 70** P-20467; Pump By-Pass Jet **2 No. 56** P-24062; Pump capacity **7** to **10** c.c. per 10 slow strokes with pump rod link set in minimum setting. Use **Tool T-24972.** Pump action takes place during acceleration period only.

IDLE SYSTEM—Idle Discharge holes **Nos. 56-58.** With throttle valve fully closed and **No. 58** drill in idle hole, edge of valve is located **Flush** + .006" — .000" from **No. 58** drill Idle Air Bleed **No. 55** P-20470; Idle Tube **No. 70** P-21778. **Adjustment:** Adjust to smooth running, OUT to make richer and IN to make leaner; throttle at 7 to 8 M. P. H.

VACUUM SPARK CONTROL—With throttle fully closed and **No. 60** drill in spark hole, edge of valve is located **Flush** from **No. 60** drill. (**2 No. 60** spark holes above valve, **1 No. 60** spark hole drilled at random below valve.)

FLANGE GASKET—P-24314—Without governor (4 slots). P-24137—With governor (1 elongated slot).

SPECIAL TOOLS REQUIRED—Use T-24733 Float Adjuster and Power Piston Wrench; T-24967 Main Discharge Jet Remover; T-24924 Main Metering Jet Wrench; T-24970 By-Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burrette Gauge; T-24968 Handle; T-5164 Main Jet Plug Screwdriver.

MOTOR TUNE-UP DATA

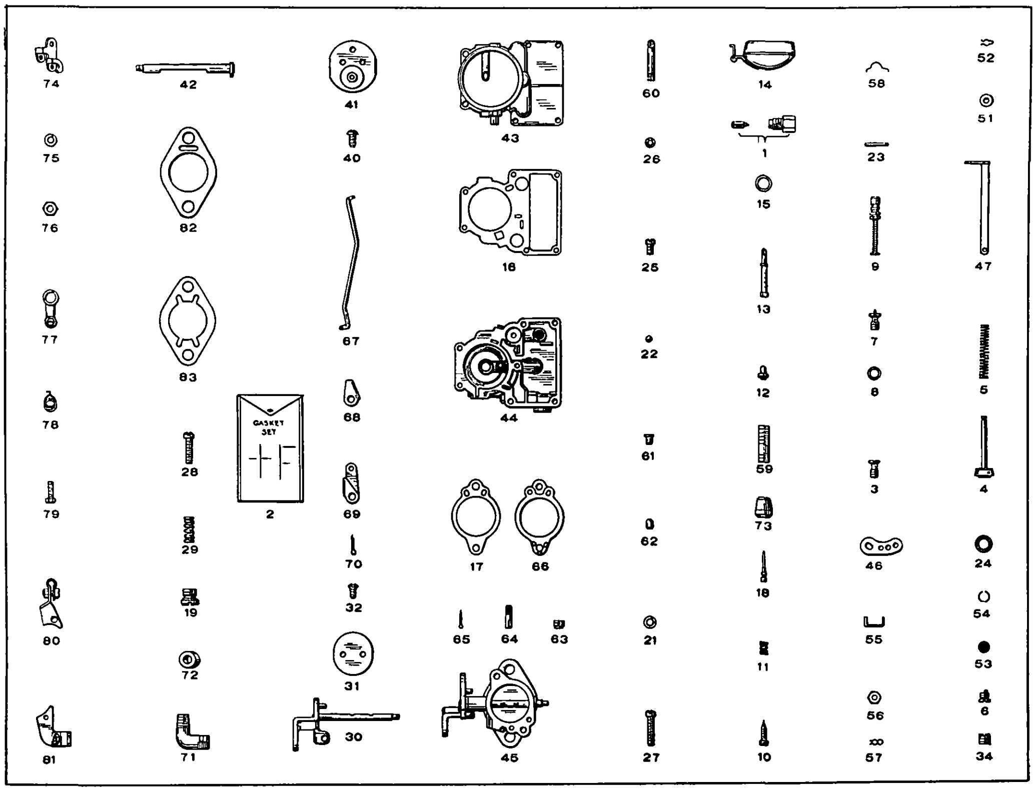
SPARK PLUG—
Clean and adjust at regular intervals.

DISTRIBUTOR—Set breaker gap.
Replace points if necessary.

IGNITION TIMING—Use timing light.

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

VALVES—Intake, Exhaust.
Adjust with engine hot.



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No	Part No	Part Name	
	1	**P-24063**	Float Needle Valve and Seat 086"	**(NOT VAR.)**
	2	**J-5409-G**	Complete Gasket Set	
	3	**J-24062**	Pump By Pass Jet No 56	**(NOT VAR)**
	4	**P-24039**	Pump Piston Link and Spring (Complete)	
	5	**P-24287**	Spring—Pump Duration	
	6	**P-18144**	Pump Inlet Check Valve	
	7	**P-21198**	Power By Pass Jet No 61	**(NOT VAR.)**
	8	**P-19448**	Gasket—By Pass Jet	
	9	**P-24043**	Vacuum Power Piston	
	10	**P-17402**	Idle Needle Valve	
	11	**P-15481**	Spring—Idle Needle Valve	
	12	**P-22660**	Metering Jet 053" (For 1937 38 Cars)	**(VAR)**
		P-22660	Metering Jet 054" (For 1932 36 Cars)	**(VAR)**
		P-22660	Metering Jet 055" (For 1939 40 Cars)	**(VAR)**
	13	**P-24313**	Main Discnarge Jet No 28 36	**(NOT VAR)**
	14	**P-22081**	Float with Lever	
	15	**P-10666**	Gasket—Float Needle Valve Seat	
	16	**P-24053**	Gasket—Air Horn	
	17	**P-24037**	Gasket—Main Body	
	18	**P-21778**	Idle Tube	
	19	**P-23902**	Plug—Main Discharge Jet	
	21	**P-3157**	Lockwasher—Main Body Attach Screw	
	22	**P-18772**	Lead Ball	
	23	**P-23272**	Fulcrum Pin—Float Lever	
	24	**P-16960**	Spring—Pump Piston Leather Expansion	
	25	**P-3199**	Screw—Air Horn Attaching	
	26	**P-1791**	Lockwasher—Air Horn Attaching Screw	
	27	**P-22025**	Screw—Main Body Attaching	
	28	**P-15456**	Screw—Throttle Stop	
	29	**P-15831**	Spring—Throttle Stop Screw	
	30	**P-24569**	Throttle Lever and Stem	
	31	**P-24059**	Throttle Valve (20°)	**(NOT VAR)**
	32	**P-4522**	Screw—Throttle Valve Attaching	
	34	**P-23269**	Plug—Check Valve	
	40	**P-22573**	Screw—Choke Valve Attach	
	41	**P-24046**	Choke Valve	
	42	**P-24077**	Choke Stem and Lever	
	43	**P-24709**	Assy —Air Horn	

Bin Location	Key No.	Part No.	Part Name	
	44	**P-24707**	Assy —Main Body **1-3/32"** Venturi **No. 70** High Speed Bleeder	**(VAR)**
	45	**P-24796**	Assy —Throttle Body **No. 56-58**, Idle Discharge Holes	**(VAR)**
	46	**P-21774**	Pump Lever	
	47	**P-24042**	Pump Rod	
	51	**P-15344**	Washer—Throttle Rod	
	52	**P-21338**	Cotter Pin—Pump Stem	
	53	**P-23270**	Screen—Pump Strainer	
	54	**P-23271**	Spring Clip—Pump Strainer Screen	
	55	**P-24041**	Pump Link	
	56	**P-2290**	Nut—Pump Lever	
	57	**P-19374**	Cotter Pin—Pump Link	
	58	**P-23273**	Spring—Float Fulcrum Pin	
	59	**P-15418**	Attaching Studs	
	60	**P-24045**	Vent Tube	
	61	**P-15459**	Plug—Drive 1/4"	
	62	**P-23985**	High Speed Bleeder No 70	**(NOT VAR.)**
	63	**P-3292**	Plug—Governor Conn	
	64	**P-23620**	Stop Pin—Throttle Body	
	65	**P-7170**	Cotter Pin—Fast Idle Cam Lever and Throttle Rod	
	66	**P-23857**	Spacer—Insulator—Main Body	
	67	**P-24060**	Fast Idle Rod	
	68	**P-23622**	Fast Idle Cam	
	69	**P-23621**	Fast Idle Cam Lever	
	70	**112-S-22**	Cotter Pin—Fast Idle Rod	
	71	**P-8641**	Union Elbow	
	72	**P-18796**	Washer—Starter Push Rod	
	73	**P-20470**	Idle Air Bleeder	
	74	**P-24052**	Fast Idle Lever	
	75	**P-6668**	Lockwasher—Fast Idle Lever Attach Nut	
	76	**P-16571**	Nut—Fast Idle Lever Attach	
	77	**P-24081**	Manual Choke Lever	
	78	**P-24080**	Spring—Manual Choke Lever	
	79	**P-24087**	Screw—Choke Tube Holder Attach	
	80	**P-24260**	Throttle Loose Lever Tube Holder	
	81	**P-24086**	Choke Tube Holder	
	82	**P-24137**	Flange Gasket	
	83	**P-24314**	Flange Gasket	

BENDIX PRODUCTS DIVISION

SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

STROMBERG BXOV-25 CARBURETOR

STROMBERG NO A-19132 (CODE NO. 14-16C)

SIZE 1-1/4" S A E 2-11/16" FLANGE CENTERS

1932-40
Chevrolet

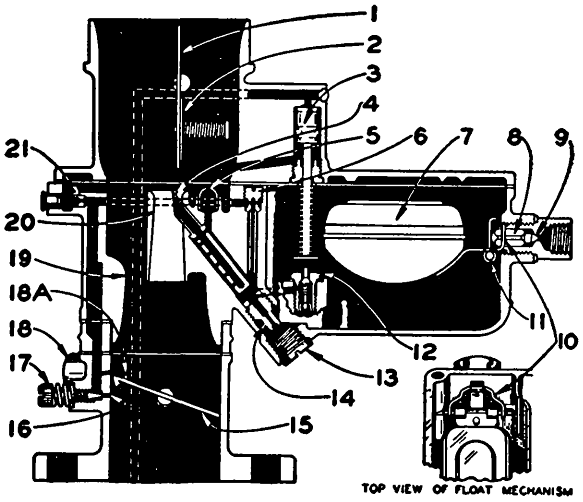
ALL MODELS

PARTS ILLUSTRATED

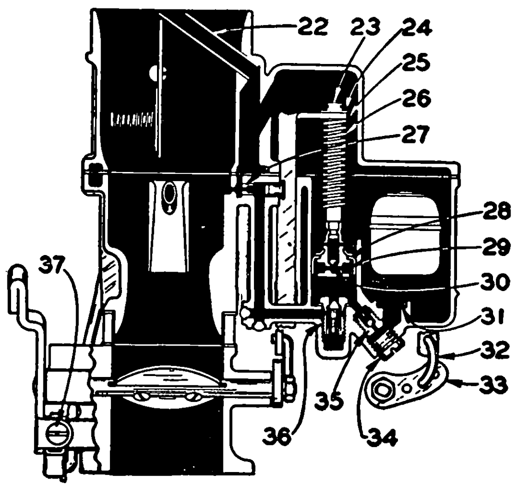
1. Choke Valve
2. Choke Relief Valve
3. Vacuum Power Piston
4. Main Discharge Jet
5. High Speed Bleeder
6. Idle Tube
7. Float
8. Float Needle Valve
9. Float Needle Valve Seat
10. Float Fulcrum Pin Clip
11. Float Fulcrum Pin
12. Power By Pass Jet
13. Main Jet Plug
14. Main Metering Jet
15. Throttle Valve
16. Idle Discharge Holes
17. Idle Needle Valve
18. Vacuum Spark Conn

18A Vacuum Spark Hole

19. Primary Venturi
20. Auxiliary Venturi
21. Idle Air Bleed
22. Float Chamber Vent
23. Piston Conn Rod
24. Cotter Pin
25. Pump Piston Rod
26. Pump Duration Spring
27. Pump Discharge Nozzle
28. Pump Piston
29. Pump Piston Exp Spring
30. Pump Relief Valve
31. Pump Inlet Strainer
32. Pump Link
33. Pump Lever
34. Pump Inlet Plug
35. Pump Inlet Check Valv
36. Pump By Pass Jet
37. Throttle Stop Screw



TOP VIEW OF FLOAT MECHANISM



FUEL LEVEL—Measure **5/8"** below top surface of float chamber (without gasket) at 3 lbs. pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level).

MAIN METERING SYSTEM—Venturi **1-3/32"**; Main Discharge Jet **No. 28-36** P-24313 (**Tool T-24967**); High Speed Bleeder **No. 70** P-23985, Main Metering Jet P-22660 **.053"** for cars 1937-38; **.054"** for cars 1932-36, **.055"** for cars 1939-40. (**Tool T-24924**); Use **Tool T-5164** Screw Driver for removing main jet plug Main metering system controls the flow of fuel up to approximately 65 to 70 M P H

POWER SYSTEM—Power By-Pass Jet **No. 61** P-21198, Power jet to come into operation at 4" to 6" of manifold vacuum, which is approximately 65 to 70 M P H Use **Tool T-24733** to remove vacuum power piston

ACCELERATION—Pump Discharge Nozzle **No. 70** P-20467, Pump By-Pass Jet **2 No. 56** P-24062, Pump capacity **7** to **10** c c per 10 slow strokes with pump rod link set in minimum setting Use **Tool T-24972.** Pump action takes place during acceleration period only

IDLE SYSTEM—Idle Discharge holes **Nos. 56-58.** With throttle valve fully closed and **No. 58** drill in idle hole, edge of valve is located **Flush + .006" — .000"** from **No. 58** drill, Idle Air Bleed **No. 55** P-20470; Idle Tube **No. 70** P-21778. **Adjustment:** Adjust to smooth running, OUT to make richer and IN to make leaner, throttle at 7 to 8 M P. H.

VACUUM SPARK CONTROL—With throttle fully closed and **No. 60** drill in spark hole, edge of valve is located **Flush** from **No. 60** drill. (**2 No. 60** spark holes above valve, **1 No. 60** spark hole drilled at random below valve)

THERMOSTAT SETTING—Thermostat to be set **7** notches rich

FLANGE GASKET—P-24314—Without governor (4 slots). P-24137—With governor (1 elongated slot)

SPECIAL TOOLS REQUIRED—Use T-24733 Float Adjuster and Power Piston Wrench, T-24967 Main Discharge Jet Remover, T-24924 Main Metering Jet Wrench, T-24970 By-Pass Jet and Check Valve Tester, T-24972 Pump Capacity Burrette Gauge, T-24968 Handle, T-5164 Main Jet Plug Screwdriver.

MOTOR TUNE-UP DATA

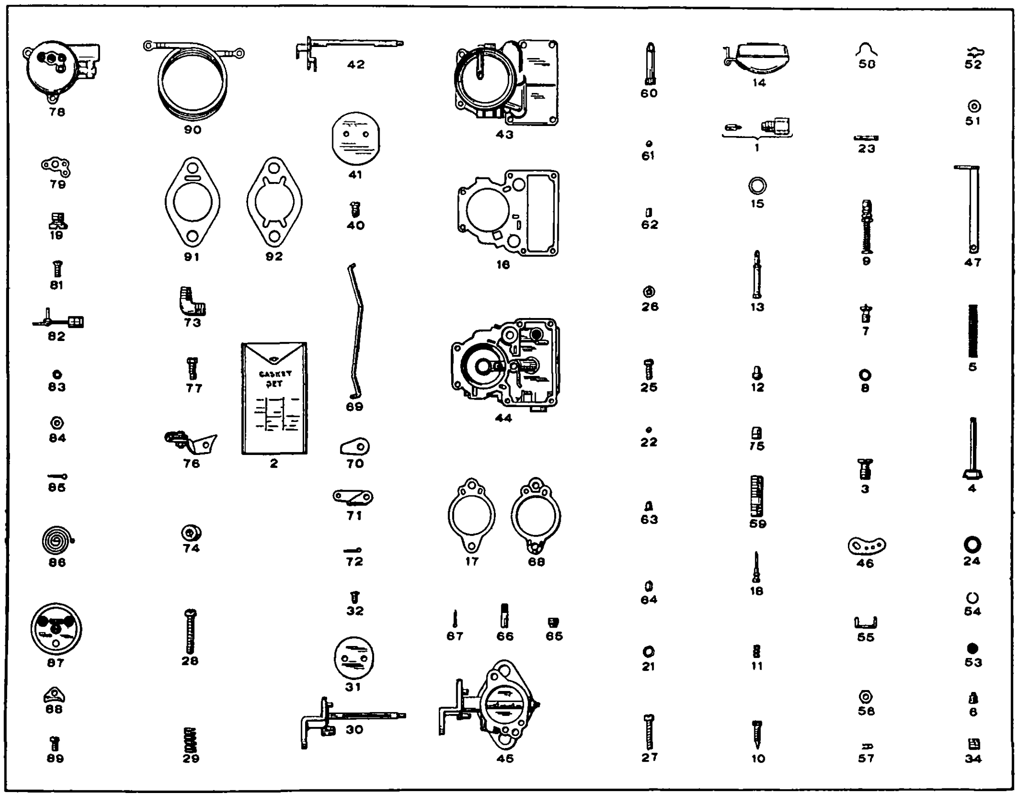
SPARK PLUG—
Clean and adjust at regular intervals.

DISTRIBUTOR—Set breaker gap.
Replace points if necessary.

IGNITION TIMING—Use timing light.

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

VALVES—Intake, Exhaust.
Adjust with engine hot.



SERVICE REPLACEMENT PARTS LIST

Bin Loca-tion	Key No	Part No	Part Name
	1	**P-24063**	Float Needle Valve and Seat 086″ **(NOT VAR)**
	2	**J-5562-G**	Complete Gasket Set.
	3	**P-24062**	Pump By Pass Jet No 56 **(NOT VAR)**
	4	**P-24039**	Pump Piston Link and Spring (Complete)
	5	**P-24287**	Spring—Pump Duration
	6	**P-18144**	Pump Inlet Check Valve
	7	**P-21198**	Power By Pass Jet No 61 **(NOT VAR)**
	8	**P-19448**	Gasket—By Pass Jet.
	9	**P-24043**	Vacuum Power Piston
	10	**P-17402**	Idle Needle Valve
	11	**P-15481**	Spring—Idle Needle Valve
	12	**P-22660**	Metering Jet 053″ (For 1937 38 Cars) **(VAR)**
		P-22660	Metering Jet 054″ (For 1932 36 Cars) **(VAR)**
		P-22660	Metering Jet 055″ (For 1939 40 Cars) **(VAR)**
	13	**P-24313**	Main Discharge Jet No 28 36 **(NOT VAR)**
	14	**P-22081**	Float with Lever
	15	**P-10666**	Gasket—Float Needle Valve Seat
	16	**P 24053**	Gasket—Air Horn
	17	**P-24037**	Gasket—Main Body
	18	**P-21778**	Idle Tube
	19	**P-23902**	Plug—Main Discharge Jet.
	21	**P-3157**	Lockwasher—Main Body Attach Screw
	22	**P-18772**	Lead Ball
	23	**P-23272**	Fulcrum Pin—Float Lever
	24	**P-16960**	Spring—Pump Piston Leather Expansion
	25	**P-3199**	Screw—Air Horn Attaching
	26	**P 1791**	Lockwasher—Air Horn Attaching Screw
	27	**P-22025**	Screw—Main Body Attaching
	28	**P-15456**	Screw—Throttle Stop
	29	**P-15831**	Spring—Throttle Stop Screw
	30	**P-24569**	Throttle Lever and Stem
	31	**P-24059**	Throttle Valve (20°) **(NOT VAR)**
	32	**P-4522**	Screw—Throttle Valve Attaching
	34	**P-23269**	Plug—Check Valve
	40	**P-22573**	Screw—Choke Valve Attach
	41	**P-24447**	Choke Valve
	42	**P-24443**	Choke Stem and Lever
	43	**P-24799**	Assy —Air Horn
	44	**P-24707**	Assy —Main Body **1-3/32′** Venturi **No 70** High Speed Bleeder **(VAR)**
	45	**P-24796**	Assy —Throttle Body **56-58** Idle Dis Holes **(VAR)**
	46	**P-21774**	Pump Lever

Bin Loca-tion	Key No	Part No.	Part Name
	47	**P-24042**	Pump Rod
	51	**P-15344**	Washer—Throttle Rod
	52	**P-21338**	Cotter Pin—Pump Stem
	53	**P-23270**	Screen—Pump Strainer
	54	**P-23271**	Spring Clip—Pump Strainer Screen
	55	**P-24041**	Pump Link
	56	**P-2290**	Nut—Pump Lever
	57	**P-19374**	Cotter Pin—Pump Link
	58	**P-23273**	Spring—Float Fulcrum Pin
	59	**P-15418**	Attaching Stud
	60	**P-24045**	Vent Tube
	61	**P-21700**	Lead Ball—Vacuum Channel
	62	**P-24067**	Reducer—Vacuum Channel
	63	**P-15459**	Plug—Drive 1/4″
	64	**P-23985**	High Speed Bleeder No 70 **(NOT VAR)**
	65	**P-3292**	Plug—Gov Conn and Vac Spark Conn
	66	**P-23620**	Stop Pin—Throttle Body
	67	**P-7170**	Cotter Pin—Fast Idle Cam Lever and Thro Rod
	68	**P-23857**	Spacer—Insulator—Main Body
	69	**P-24060**	Fast Idle Rod
	70	**P-23622**	Fast Idle Cam
	71	**P-23621**	Fast Idle Cam Lever
	72	**112-S-22**	Cotter Pin—Fast Idle Rod
	73	**P-8641**	Union Elbow
	74	**P-18796**	Washer—Starter Push Rod
	75	**P-20470**	Idle Air Bleeder
	76	**P-24260**	Throttle Loose Lever Tube Holder
	77	**P-24087**	Screw—Throttle Tube Holder Attach
	78	**P-24442**	Choke Housing
	79	**P-23297**	Gasket—Choke Housing
	81	**P-24445**	Screw—Choke Housing Attach
	82	**P-24346**	Vacuum Choke Piston and Link
	83	**P-15875**	Lockwasher—Vacuum Choke Piston Lever
	84	**P-16571**	Nut—Vacuum Choke Piston Lever Lock
	85	**P-4**	Cotter Pin—Thermostat Post.
	86	***382050**	Thermostat.
	87	**P-23124**	Assy —Electric Unit.
	88	**P-23932**	Washer—Electric Unit Attach Screw
	89	**P-2866**	Screw—Electric Unit Attach
	90	**P-21987**	Auto Choke Wire
	91	**P-24137**	Flange Gasket.
	92	**P-24314**	Flange Gasket.

***Note—For Carburetors with Code 14-16A and earlier using P-21507 Thermostat, setting is 12 notches rich. When replacing Thermostat specify Part No 382050 and set 7 notches rich For complete assembly of Thermostat Unit Specify Part No 382049**

BENDIX PRODUCTS DIVISION

SOUTH BEND
OF BENDIX AVIATION CORPORATION
INDIANA

STROMBERG BXOV-2 CARBURETOR

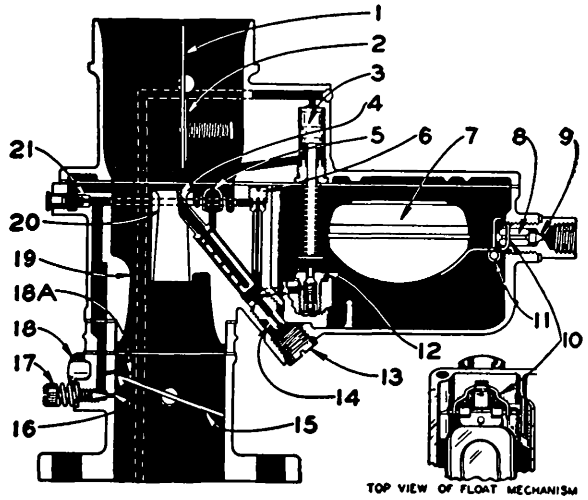
STROMBERG NO. A-19122 (CODE NO 14-17)

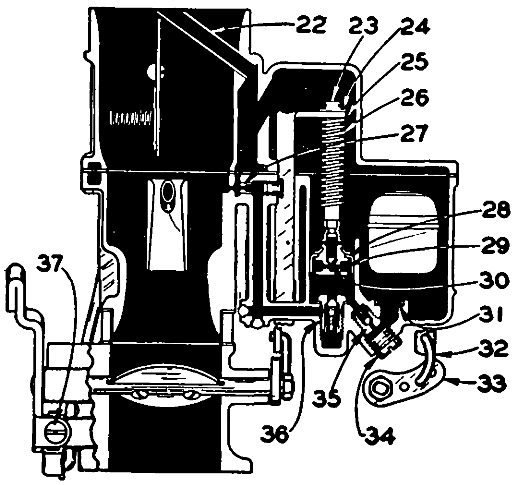
SIZE 1-1/4" S A E 2-11/16" FLANGE CENTERS

1932-39 Chevrolet

ALL MODELS

PARTS ILLUSTRATED





1 Choke Valve
2 Choke Relief Valve
3 Vacuum Power Piston
4 Main Discharge Jet
5 High Speed Bleeder
6 Idle Tube
7 Float
8 Float Needle Valve
9 Float Needle Valve Seat
10 Float Fulcrum Pin Clip
11 Float Fulcrum Pin
12 Power By Pass Jet
13 Main Jet Plug
14 Main Metering Jet
15 Throttle Valve
16 Idle Discharge Holes
17 Idle Needle Valve
18 Vacuum Spark Conn
18A Vacuum Spark Hole
19 Primary Venturi
20 Auxiliary Venturi
21 Idle Air Bleed
22 Float Chamber Vent
23 Piston Conn Rod
24 Cotter Pin
25 Pump Piston Rod
26 Pump Duration Spring
27 Pump Discharge Nozzle
28 Pump Piston
29 Pump Piston Exp Spring
30 Pump Relief Valve
31 Pump Inlet Strainer
32 Pump Link
33 Pump Lever
34 Pump Inlet Plug
35 Pump Inlet Check Valve
36 Pump By Pass Jet
37 Throttle Stop Screw

Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **5/8"** below top surface of float chamber (without gasket) at 3 lbs pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level)

MAIN METERING SYSTEM—Venturi **1-3/32"**; Main Discharge Jet **No. 28-36** P-24313 (**Tool T-24967**); High Speed Bleeder **No. 70** P-23985, Main Metering Jet **.056"** P-19442 for cars 1932-36, **.054"** P-19442 for cars 1937-39 (**Tool T-24924**); Use **Tool T-5164** Screw Driver for removing main jet plug Main metering system controls the flow of fuel to approximately 65 to 70 M P H

POWER SYSTEM—Power By-Pass Jet **No. 61** P-21198, Power jet to come into operation at 4" to 6" of manifold vacuum, which is approximately 65 to 70 M P H Use **Tool T-24733** to remove vacuum power piston

ACCELERATION—Pump Discharge Nozzle **No. 70** P-20467, Pump By-Pass Jet **2 No. 56** P-24062, Pump capacity **7** to **10** c c per 10 slow strokes with pump rod link set in minimum setting Use **Tool T-24972.** Pump action takes place during acceleration period only

IDLE SYSTEM—Idle Discharge holes **Nos. 56-58.** With throttle valve fully closed and **No. 58** drill in idle hole, edge of valve is located **Flush** + **.006"** — **.000"** from **No. 58** drill Idle Air Bleed **No. 55** P-20470, Idle Tube **No. 70** P-21778. **Adjustment:** Adjust to smooth running, OUT to make richer and IN to make leaner, throttle at 7 to 8 M P H

VACUUM SPARK CONTROL—With throttle fully closed and **No. 60** drill in spark hole, edge of valve is located **Flush** from **No. 60** drill (**2 No. 60** spark holes above valve, **1 No. 60** spark hole drilled at random below valve)

FLANGE GASKET—P-24314—Without governor (4 slots) P-24137—With governor (1 elongated slot).

SPECIAL TOOLS REQUIRED—Use T-24733 Float Adjuster and Power Piston Wrench, T-24967 Main Discharge Jet Remover, T-24924 Main Metering Jet Wrench, T-24970 By-Pass Jet and Check Valve Tester, T-24972 Pump Capacity Burrette Gauge, T-24968 Handle, T-5164 Main Jet Plug Screwdriver.

MOTOR TUNE-UP DATA

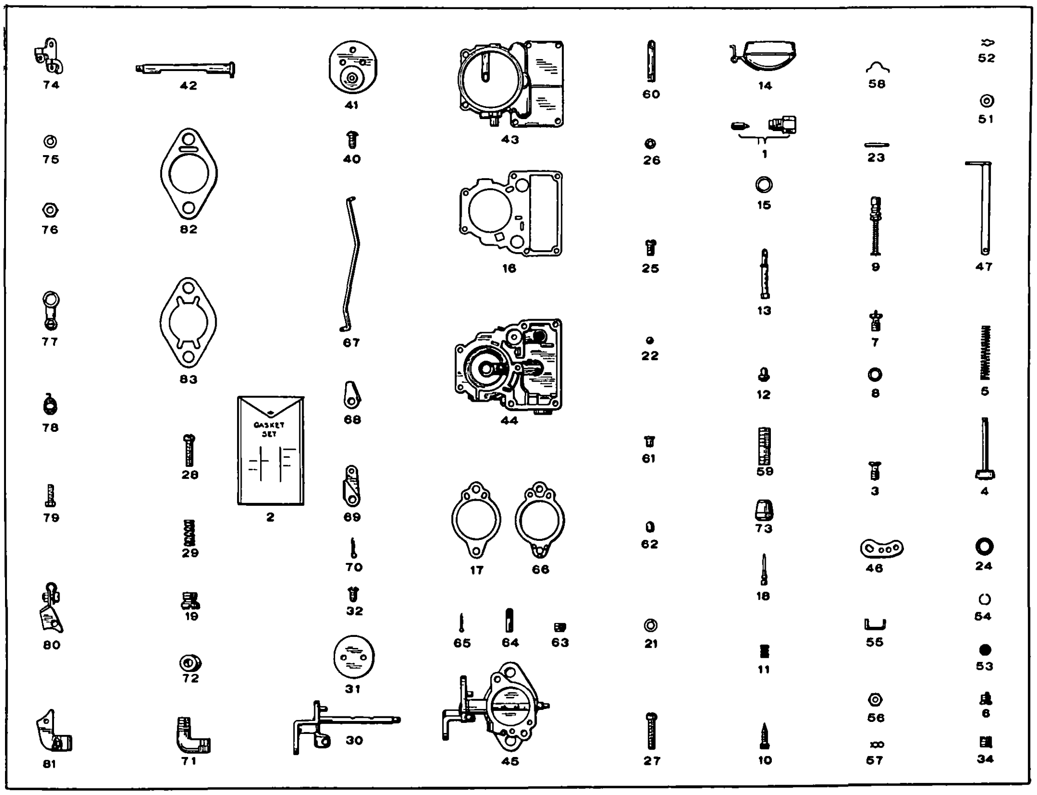
SPARK PLUG—
Clean and adjust at regular intervals.

DISTRIBUTOR—Set breaker gap.
Replace points if necessary.

IGNITION TIMING—Use timing light.

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

VALVES—Intake, Exhaust.
Adjust with engine hot.



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No.	Part No.	Part Name
	1	**P-24063**	Float Needle Valve and Seat 086" **(NOT VAR)**
	2	**J-5409-G**	Complete Gasket Set
	3	**J-24062**	Pump By Pass Jet No 56 **(NOT VAR)**
	4	**P-24039**	Pump Piston Link and Spring (Complete)
	5	**P-24287**	Spring—Pump Duration
	6	**P-18144**	Pump Inlet Check Valve
	7	**P-21198**	Power By Pass Jet No 61 **(NOT VAR)**
	8	**P-19448**	Gasket—By Pass Jet
	9	**P-24043**	Vacuum Power Piston
	10	**P-17402**	Idle Needle Valve
	11	**P-15481**	Spring—Idle Needle Valve
	12	**P-19442**	Metering Jet **054"** **(VAR)**
		P-19442	Metering Jet .056" (For 1932 36 Model Cars) **(VAR)**
	13	**P-24313**	Main Discharge Jet No 28 36 **(NOT VAR)**
	14	**P-22081**	Float with Lever
	15	**P-10666**	Gasket—Float Needle Valve Seat.
	16	**P-24053**	Gasket—Air Horn
	17	**P-24037**	Gasket—Main Body
	18	**P-21778**	Idle Tube
	19	**P-23902**	Plug—Main Discharge Jet.
	21	**P-3157**	Lockwasher—Main Body Attach Screw
	22	**P-18772**	Lead Ball
	23	**P-23272**	Fulcrum Pin—Float Lever
	24	**P-16960**	Spring—Pump Piston Leather Expansion
	25	**P-3199**	Screw—Air Horn Attaching
	26	**P-1791**	Lockwasher—Air Horn Attaching Screw
	27	**P-22025**	Screw—Main Body Attaching
	28	**P-15456**	Screw—Throttle Stop
	29	**P-15831**	Spring—Throttle Stop Screw
	30	**P-24569**	Throttle Lever and Stem
	31	**P-24059**	Throttle Valve (20°) **(NOT VAR)**
	32	**P-4522**	Screw—Throttle Valve Attaching
	34	**P-23269**	Plug—Check Valve
	40	**P-22573**	Screw—Choke Valve Attach
	41	**P-24046**	Choke Valve
	42	**P-24077**	Choke Stem and Lever
	43	**P-24709**	Assy —Air Horn
	44	**P-24707**	Assy —Main Body **1-3/32"** Venturi, **No 70** High Speed Bleeder **(VAR.)**

Bin Location	Key No.	Part No	Part Name
	45	**P-24796**	Assy —Throttle Body **No 56-58** Idle Discharge Holes **(VAR.)**
	46	**P-21774**	Pump Lever
	47	**P-24042**	Pump Rod
	51	**P-15344**	Washer—Throttle Rod
	52	**P-21338**	Cotter Pin—Pump Stem
	53	**P-23270**	Screen—Pump Strainer
	54	**P-23271**	Spring Clip—Pump Strainer Screen
	55	**P-24041**	Pump Link
	56	**P-2290**	Nut—Pump Lever
	57	**P-19374**	Cotter Pin—Pump Link
	58	**P-23273**	Spring—Float Fulcrum Pin
	59	**P-15418**	Attaching Studs
	60	**P-24045**	Vent Tube
	61	**P-15459**	Plug—Drive 1/4"
	62	**P-23985**	High Speed Bleeder No 70 **(NOT VAR)**
	63	**P-3292**	Plug—Governor Conn
	64	**P-23620**	Stop Pin—Throttle Body
	65	**P-7170**	Cotter Pin—Fast Idle Cam Lever and Throttle Rod
	66	**P-23857**	Spacer—Insulator—Main Body
	67	**P-24060**	Fast Idle Rod
	68	**P-23622**	Fast Idle Cam
	69	**P-23621**	Fast Idle Cam Lever
	70	**112-S-22**	Cotter Pin—Fast Idle Rod
	71	**P-8641**	Union Elbow
	72	**P-18796**	Washer—Starter Push Rod
	73	**P-20470**	Idle Air Bleeder
	74	**P-24052**	Fast Idle Lever
	75	**P-6668**	Lockwasher—Fast Idle Lever Attach Nut
	76	**P-16571**	Nut—Fast Idle Lever Attach
	77	**P-24081**	Manual Choke Lever
	78	**P-24080**	Spring—Manual Choke Lever
	79	**P-24087**	Screw—Choke Tube Holder Attach
	80	**P-24260**	Throttle Loose Lever Tube Holder
	81	**P-24086**	Choke Tube Holder
	82	**P-24137**	Flange Gasket
	83	**P-24314**	Flange Gasket

BENDIX PRODUCTS DIVISION
SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

STROMBERG BXOV-25 CARBURETOR

STROMBERG NO. A-19132 (CODE NO. 14-16)

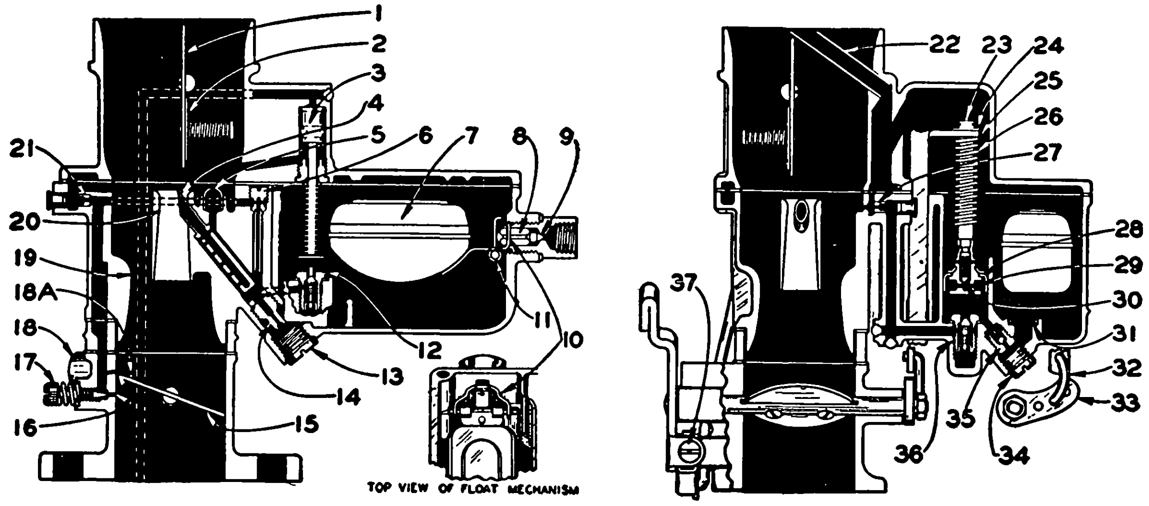
SIZE: 1-1/4" S.A.E. 2-11/16" FLANGE CENTERS

1932-39
Chevrolet

ALL MODELS

PARTS ILLUSTRATED

1. Choke Valve
2. Choke Relief Valve
3. Vacuum Power Piston
4. Main Discharge Jet
5. High Speed Bleeder
6. Idle Tube
7. Float
8. Float Needle Valve
9. Float Needle Valve Seat
10. Float Fulcrum Pin Clip
11. Float Fulcrum Pin
12. Power By-Pass Jet
13. Main Jet Plug
14. Main Metering Jet
15. Throttle Valve
16. Idle Discharge Holes
17. Idle Needle Valve
18. Vacuum Spark Conn.
18A. Vacuum Spark Hole
19. Primary Venturi
20. Auxiliary Venturi
21. Idle Air Bleed
22. Float Chamber Vent
23. Piston Conn. Rod
24. Cotter Pin
25. Pump Piston Rod
26. Pump Duration Spring
27. Pump Discharge Nozzle
28. Pump Piston
29. Pump Piston Exp. Spring
30. Pump Relief Valve
31. Pump Inlet Strainer
32. Pump Link
33. Pump Lever
34. Pump Inlet Plug
35. Pump Inlet Check Valve
36. Pump By-Pass Jet
37. Throttle Stop Screw



FUEL LEVEL—Measure **5/8"** below top surface of float chamber (without gasket) at 3 lbs. pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level).

MAIN METERING SYSTEM—Venturi **1-3/32"**; Main Discharge Jet **No. 28-36** P-24313 (**Tool T-24967**); High Speed Bleeder **No. 70** P-23985; Main Metering Jet **.056"** P-19442 for cars 1932-39: **.054"** P-19442 for cars 1937-39 (**Tool T-24924**); Use **Tool T-5164** Screw Driver for removing main jet plug. Main metering system controls the flow of fuel up to approximately 65 to 70 M. P. H.

POWER SYSTEM—Power By-Pass Jet **No. 61** P-21198; Power jet to come into operation at 4" to 6" of manifold vacuum, which is approximately 65 to 70 M. P. H. Use **Tool T-24733** to remove vacuum power piston.

ACCELERATION—Pump Discharge Nozzle **No. 70** P-20467; Pump By-Pass Jet **2 No. 56** P-24062; Pump capacity **7** to **10** c.c. per 10 slow strokes with pump rod link set in minimum setting. Use **Tool T-24972.** Pump action takes place during acceleration period only.

IDLE SYSTEM—Idle Discharge holes **Nos. 56-58.** With throttle valve fully closed and **No. 58** drill in idle hole, edge of valve is located **Flush + .006" — .000"** from **No. 58** drill; Idle Air Bleed **No. 55** P-20470; Idle Tube **No. 70** P-21778. **Adjustment:** Adjust to smooth running, OUT to make richer and IN to make leaner; throttle at 7 to 8 M. P. H.

VACUUM SPARK CONTROL—With throttle fully closed and **No. 60** drill in spark hole, edge of valve is located **Flush** from **No. 60** drill. (**2 No. 60** spark holes above valve, **1 No. 60** spark hole drilled at random below valve.)

FLANGE GASKET—P-24314—Without governor (4 slots). P-24137—With governor (1 elongated slot).

SPECIAL TOOLS REQUIRED—Use T-24733 Float Adjuster and Power Piston Wrench; T-24967 Main Discharge Jet Remover; T-24924 Main Metering Jet Wrench; T-24970 By-Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burrette Gauge; T-24968 Handle; T-5164 Main Jet Plug Screwdriver.

MOTOR TUNE-UP DATA

SPARK PLUG—
Clean and adjust at regular intervals.

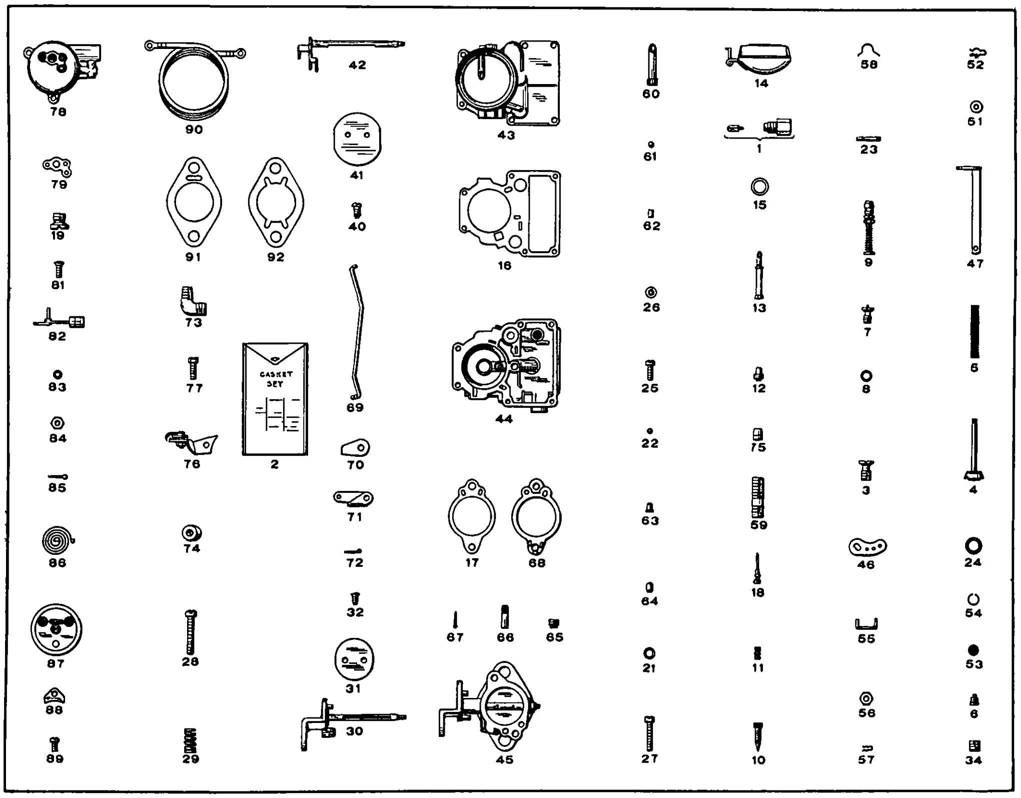
DISTRIBUTOR—Set breaker gap.
Replace points if necessary.

IGNITION TIMING—Use timing light.

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

VALVES—Intake, Exhaust.
Adjust with engine hot.

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Bin Loca-tion	Key No	Part No	Part Name	
	1	**P-24063**	Float Needle Valve and Seat 086"	(**NOT VAR**)
	2	**J-5562-G**	Complete Gasket Set	
	3	**P-24062**	Pump By Pass Jet No 56	(**NOT VAR**)
	4	**P-24039**	Pump Piston Link and Spring (Complete)	
	5	**P-24287**	Spring—Pump Duration	
	6	**P-18144**	Pump Inlet Check Valve	
	7	**P-21198**	Power By Pass Jet No 61	(**NOT VAR**)
	8	**P-19448**	Gasket—By Pass Jet	
	9	**P-24043**	Vacuum Power Piston	
	10	**P-17402**	Idle Needle Valve	
	11	**P-15481**	Spring—Idle Needle Valve	
	12	**P-19442**	Metering Jet **054"**	(**VAR.**)
		P-19442	Metering Jet **056"** (For 1932 36 Model Cars)	(**VAR.**)
	13	**P-24313**	Main Discharge Jet No 28 36	(**NOT VAR**)
	14	**P-22081**	Float with Lever	
	15	**P-10666**	Gasket—Float Needle Valve Seat	
	16	**P 24053**	Gasket—Air Horn	
	17	**P-24037**	Gasket—Main Body	
	18	**P-21778**	Idle Tube	
	19	**P-23902**	Plug—Main Discharge Jet	
	21	**P-3157**	Lockwasher—Main Body Attach Screw	
	22	**P-18772**	Lead Ball	
	23	**P-23272**	Fulcrum Pin—Float Lever	
	24	**P-16960**	Spring—Pump Piston Leather Expansion	
	25	**P-3199**	Screw—Air Horn Attaching	
	26	**P 1791**	Lockwasher—Air Horn Attaching Screw	
	27	**P-22025**	Screw—Main Body Attaching	
	28	**P-15456**	Screw—Throttle Stop	
	29	**P-15831**	Spring—Throttle Stop Screw	
	30	**P-24569**	Throttle Lever and Stem	
	31	**P-24059**	Throttle Valve (20°)	(**NOT VAR**)
	32	**P-4522**	Screw—Throttle Valve Attaching	
	34	**P-23269**	Plug—Check Valve	
	40	**P-22573**	Screw—Choke Valve Attach	
	41	**P-24447**	Choke Valve	
	42	**P-24443**	Choke Stem and Lever	
	43	**P-24799**	Assy —Air Horn	
	44	**P-24707**	Assy —Main Body **1-3/32"** Venturi **No 70** High Speed Bleeder	(**VAR**)
	45	**P-24796**	Assy —Throttle Body **56-58** Idle Dis Holes	(**VAR**)
	46	**P-21774**	Pump Lever	
	47	**P-24042**	Pump Rod	
	51	**P-15344**	Washer—Throttle Rod	
	52	**P-21338**	Cotter Pin—Pump Stem	
	53	**P-23270**	Screen—Pump Strainer	
	54	**P-23271**	Spring Clip—Pump Strainer Screen	
	55	**P-24041**	Pump Link	
	56	**P-2290**	Nut—Pump Lever	
	57	**P-19374**	Cotter Pin—Pump Link	
	58	**P-23273**	Spring—Float Fulcrum Pin	
	59	**P-15418**	Attaching Stud	
	60	**P-24045**	Vent Tube	
	61	**P-21700**	Lead Ball—Vacuum Channel	
	62	**P-24067**	Reducer—Vacuum Channel	
	63	**P-15459**	Plug—Drive 1/4"	
	64	**P-23985**	High Speed Bleeder No 70	(**NOT VAR**)
	65	**P-3292**	Plug—Gov Conn and Vac Spark Conn	
	66	**P-23620**	Stop Pin—Throttle Body	
	67	**P-7170**	Cotter Pin—Fast Idle Cam Lever and Thro Rod	
	68	**P-23857**	Spacer—Insulator—Main Body	
	69	**P-24060**	Fast Idle Rod	
	70	**P-23622**	Fast Idle Cam	
	71	**P-23621**	Fast Idle Cam Lever	
	72	**112-S-22**	Cotter Pin—Fast Idle Rod	
	73	**P-8641**	Union Elbow	
	74	**P-18796**	Washer—Starter Push Rod	
	75	**P-20470**	Idle Air Bleeder	
	76	**P-24260**	Throttle Loose Lever Tube Holder	
	77	**P-24087**	Screw—Throttle Tube Holder Attach	
	78	**P-24442**	Choke Housing	
	79	**P-23297**	Gasket—Choke Housing	
	81	**P-24445**	Screw—Choke Housing Attach	
	82	**P-24346**	Vacuum Choke Piston and Link	
	83	**P-15875**	Lockwasher—Vacuum Choke Piston Lever	
	84	**P-16571**	Nut—Vacuum Choke Piston Lever Lock	
	85	**P-4**	Cotter Pin—Thermostat Post	
	86	**P-21507**	Thermostat	
	87	**P-23124**	Assy —Electric Unit	
	88	**P-23932**	Washer—Electric Unit Attach Screw	
	89	**P-2866**	Screw—Electric Unit Attach	
	90	**P-21987**	Auto Choke Wire	
	91	**P-24137**	Flange Gasket.	
	92	**P-24314**	Flange Gasket	

BENDIX PRODUCTS DIVISION
SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

STROMBERG AAV-2 CARBURETOR

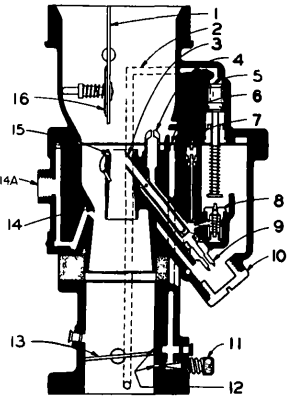
STROMBERG NO. 380086 (CODE NO. 4-109) CHRYSLER SYMBOL NO. 956248

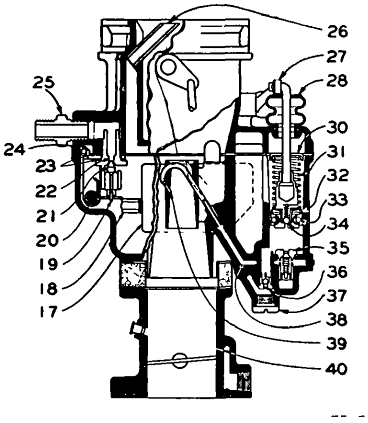
SIZE: 1-1/4" DUAL D.D. 4-HOLE FLANGE

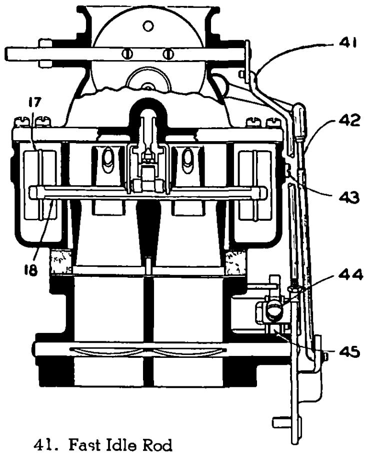
1942
CHRYSLER
MODEL C-36
New Yorker
Saratoga
3-1/4" x 4-7/8"—8 cyl.

PARTS ILLUSTRATED

1. Choke Valve
2. Power Vacuum Passage
3. Main Discharge Jet
4. High Speed Bleeder
5. Vacuum Power Piston
6. Idle Air Bleeder
7. Idle Tube
8. Power By-Pass Jet
9. Metering Jet
10. Main Discharge Jet Plug
11. Idle Needle Valve
12. Idle Discharge Holes
13. Throttle Valve
14. Primary Venturi
14A. Vacuum Conn
15. Auxiliary Venturi
16. Choke Poppet Valve
17. Float
18. Float Lever
19. Float Needle Valve Clip
20. Float Fulcrum Pin
21. Float Needle Valve
22. Float Needle Valve Seat
23. Fl. Need Val Seat Gasket
24. Float Hanger
25. Gasoline Conn.
26. Vent Tube
27. Pump Lever
28. Pump Link Seal
30. Spring Retainer Cup







31. Pump Duration Spring
32. Pump Piston
33. Piston Expansion Spring
34. Pump Relief Valve
35. Pump By-Pass Jet
36. Pump Inlet Check Valve
37. Pump Check Valve Plug
38. Pump Discharge Channel
39. Pump Discharge Nozzle
40. Vacuum Spark Hole
41. Fast Idle Rod
42. Pump Rod
43. Fuel Level Sight Plug
44. Throttle Stop Screw
45. Fast Idle Cam

Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **5/8"** below top surface of float chamber (without gasket) or level with bottom of the level sight hole at 4 lbs. pressure. To correct fuel level, hold air horn in inverted position and place **Tool T-24971** on gasket. Tops of floats should be level with tops of vertical guides, which will give approximate fuel level; change if necessary. Sides of floats should be parallel to guides of tool without drag.

MAIN METERING SYSTEM—Venturi **1-1/8"**; Main Discharge Jet **No. 36** P-22795 (**Tool T-24967**); High Speed Bleeder **No. 70** P-22369; Main Metering Jet **.051"** P-22660 (**Tool T-24924**); (**Tool T-19099**) used for removing main jet plug; Main Metering system controls the flow of fuel up to approximately 70 to 75 M. P. H.

POWER SYSTEM—Power By-Pass Jet **2 No. 56** 382454; Power jet to come into operation at **5"** to **7"** of manifold vacuum, which is approximately 70 to 75 M. P. H. (**Tool T-24733**) used for removing P-22803 vacuum power piston.

ACCELERATION—Pump Discharge Nozzle **No. 65**; Pump By-Pass Jet **No. 63** P-23742; Pump capacity **21** to **25** c.c. per 10 fast strokes, and **27** to **31** c.c. per 10 slow strokes (Maximum Adjustment); (**Tool T-24972**) Pump action takes place during acceleration period only.

IDLE SYSTEM—Idle Discharge holes **No. 54-55**; with throttle valve fully closed and **No. 56** drill in idle hole, edge of valve is located **.030"** + — **.004"** from **No. 56** drill; Idle Air Bleeder **No. 40** (in main body); Idle Tube **No. 70** P-19424; **Adjustment:** Adjust to smooth running one barrel at a time, OUT to make richer, and IN to make leaner; throttle at 6 M. P. H.

FAST IDLE SETTING—With fast idle screw held against first step of fast idle cam, choke valve should be open so that a **1/8"** drill can be placed between the valve and the air horn. The amount of opening can be adjusted by changing the position of the rod in the ball joint. With throttle held in wide open position, choke valve should be open **7/32"**. The amount of opening can be changed by bending extended arm of fast idle cam.

VACUUM SPARK CONTROL—With throttle fully closed and **No. 56** drill in spark hole, edge of valve is located **.015"** + — **.004"** from **No. 56** drill.

SPECIAL TOOLS MENTIONED ABOVE CONTAINED IN TOOL KIT SER-459 SEE FORM 10-265A

MOTOR TUNE-UP DATA

SPARK PLUG—.025".
Clean and adjust at regular intervals.

DISTRIBUTOR—Breaker gap set .018".
Replace if necessary.

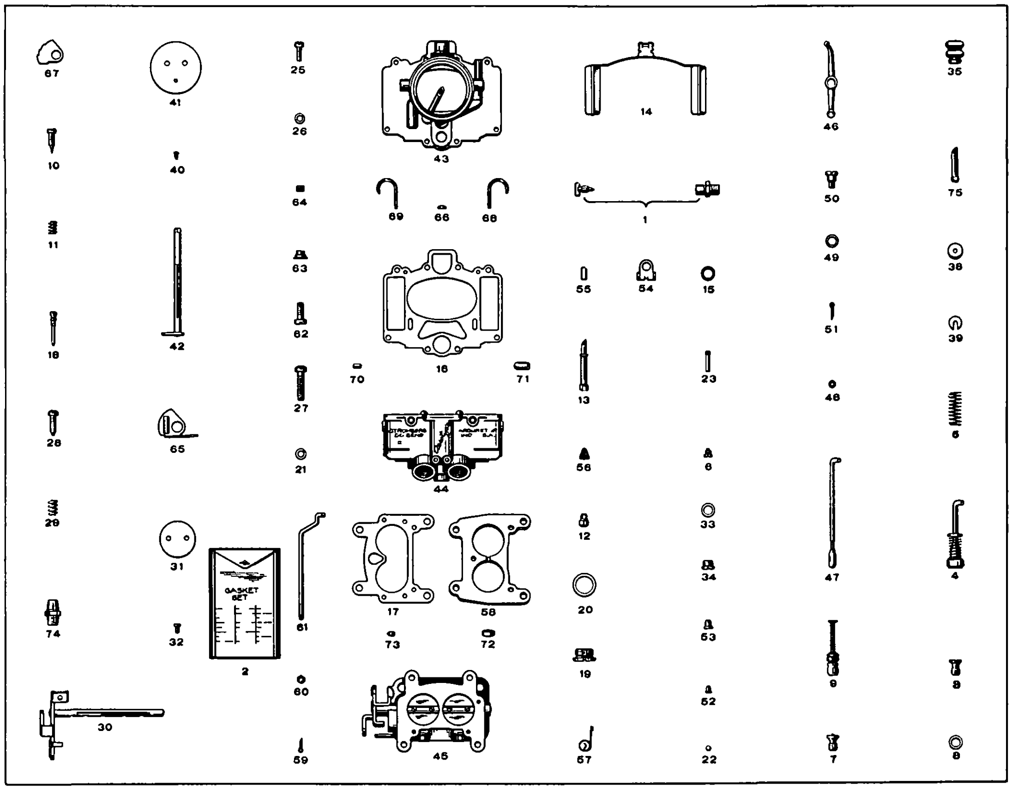
IGNITION TIMING—Breaker contacts to open for No. 8 cylinder as per instructions when timing marks on impulse neutralizer are in line with pointer.

Model	Ratio	Head	Setting
C-36, C-37	6.8	C.I.	2° A.T.D.C.

VALVES—Intake: .008"; Exhaust: .010".
Engine hot.

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Repair Parts Kit No. RK-113

Bin Location	Key No	Part No	Part Name
	1	**P-22499**	Float Needle Valve Clip & Seat 101'- **(NOT VAR)**
	2	**382395**	Complete Gasket Set
	3	**P-23742**	Pump By Pass Jet No 63 **(NOT VAR)**
	4	**382595**	Pump Piston Link and Spring (Complete)
	5	**P-19526**	Spring—Pump Duration
	6	**P-18144**	Pump Inlet Check Valve
	7	**382454**	Power By Pass Jet 2 No 56 **(NOT VAR)**
	8	**P-19448**	Gasket—By Pass Jet
	9	**P-22803**	Vacuum Power Piston
	10	**P-15478**	Idle Needle Valve
	11	**P-18710**	Spring—Idle Needle Valve
	12	**P-22660**	Metering Jet **051** **(VAR)**
	13	**P-22795**	Main Discharge Jet No 36 **(NOT VAR)**
	14	**382269**	Float with Lever
	15	**P-2885**	Gasket—Float Needle Valve Seat
	16	**382255**	Gasket—Air Horn
	17	**382299**	Gasket—Main Body
	18	**P-19424**	Idle Tube
	19	**P-21767**	Plug—Main Discharge Jet
	20	**P-22851**	Gasket—Main Discharge Jet Plug
	21	**P-3157**	Lockwasher—Main Body Attach Screw
	22	**P-18772**	Lead Ball
	23	**P-22439**	Fulcrum Pin—Float Lever
	25	**P-2475**	Screw—Air Horn Attaching
	26	**P-6668**	Lockwasher—Air Horn Attaching Screw
	27	**P-22867**	Screw—Main Body Attaching
	28	**P-20424**	Screw—Throttle Stop
	29	**P-15831**	Spring—Throttle Stop Screw
	*30	**382956**	Throttle Lever and Stem
	31	**P-22752**	Throttle Valve (5°) **(NOT VAR)**
	32	**P-16716**	Screw—Throttle Valve Attaching
	33	**P-7338**	Gasket—Check Valve Plug
	34	**P-19716**	Plug—Check Valve
	35	**382242**	Seal—Pump Link
	38	**P-22045**	Washer—Cup
	39	**P-22046**	Washer—Spring Retainer
	40	**P-4522**	Screw—Choke Valve Attach
	41	**P-22809**	Choke Valve
	42	**P-22791**	Choke Stem and Lever
	43	**382450**	Assy —Air Horn
	*44	**382798**	Assy —Main Body **1-1/8'** Venturi **No 70** H S Bleeder **No 40** Idle Air Bleed... **(VAR)**
	*45	**382962**	Assy —Throttle Body (**No 54-55** idle holes **No 56** spark hole complete with throttle stem and valves) **(VAR)**
	46	**382598**	Pump Lever
	47	**P-22787**	Pump Rod
	48	**P-9394**	Washer—Pump Rod
	49	**P-19820**	Spring—Washer—Pump Lever Fulcrum Screw
	50	**P-19433**	Fulcrum Screw—Pump Lever
	51	**P-7170**	Cotter Pin—Pump Link
	52	**P-15458**	Plug—Idle Discharge
	53	**P-15459**	Plug—Idle Drilling Hole
	54	**P-22441**	Hanger—Float
	55	**P-22523**	Clip—Float Needle Valve
	56	**P-23858**	Strainer—Check Valve
	57	**P-22934**	Spring Clip—Throttle Lever
	58	**P-22770**	Insulator—Main Body
	59	**112-S-1**	Cotter Pin—Fast Idle Rod
	60	**P-19587**	Nut—Fast Idle Rod Adj
	61	**P-22788**	Rod—Fast Idle
	62	**382039**	Screw—Fast Idle Lever Fulcrum
	63	**382038**	Bushing—Fast Idle Lever
	64	**P-6406**	Plug—Fuel Level Sight
	65	**382040**	Fast Idle Lever
	66	**P-8495**	Expansion Plug
	67	**P-22792**	Fast Idle Cam
	68	**P-23245**	Pump Disch Tube (Right) No 65 **(NOT VAR)**
	69	**P-23246**	Pump Disch Tube (Left) No 65 **(NOT VAR)**
	70	**P-19430**	Pump Disch Tube Wedge
	71	**P-22369**	High Speed Bleeder No 70 **(NOT VAR)**
	72	**P-17081**	Collar—Choke Stem
	73	**P-16161**	Set Screw—Choke Stem Collar
	74	**P-2459**	Nipple—Gas Conn
	75	**P-24045**	Vent Tube

*Indicates New Parts

BENDIX PRODUCTS DIVISION

SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

STROMBERG AAV-2 CARBURETOR

STROMBERG NO 380041 (CODE NO 4-103) CHRYSLER SYMBOL NO 863619

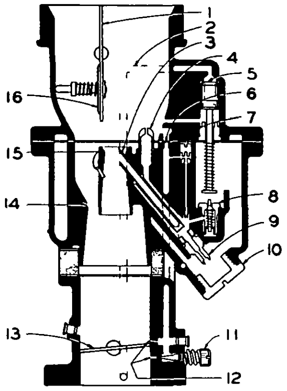
SIZE 1-1/4″ DUAL D D 4-HOLE FLANGE

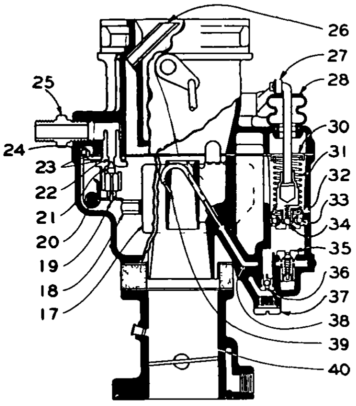
1941 CHRYSLER

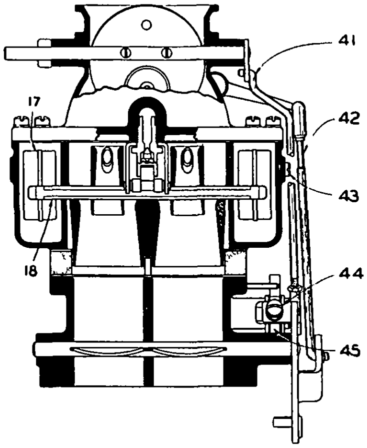
MODEL
C30, C31
3-1/4″ x 4-7/8″—8 cyl.

PARTS ILLUSTRATED

1 Choke Valve
2 Power Vacuum Passage
3 Main Discharge Jet
4 High Speed Bleeder
5 Vacuum Power Piston
6 Idle Air Bleeder
7 Idle Tube
8 Power By Pass Jet
9 Metering Jet
10 Main Discharge Jet Plug
11 Idle Needle Valve
12 Idle Discharge Holes
13 Throttle Valve
14 Primary Venturi
15 Auxiliary Venturi
16 Choke Poppet Valve
17 Float
18 Float Lever
19 Float Needle Valve Clip
20 Float Fulcrum Pin
21 Float Needle Valve
22 Float Needle Valve Seat
23 Fl Need Val Seat Gasket
24 Float Hanger
25 Gasoline Conn
26 Vent Tube
27 Pump Lever
28 Pump Link Seal
30 Spring Retainer Cup
31 Pump Duration Spring
32 Pump Piston
33 Piston Expansion Spring
34 Pump Relief Valve
35 Pump By Pass Jet
36 Pump Inlet Check Valve
37 Pump Check Valve Plug
38 Pump Discharge Channel
39 Pump Discharge Nozzle
40 Vacuum Spark Hole
41 Fast Idle Rod
42 Pump Rod
43 Fuel Level Sight Plug
44 Throttle Stop Screw
45 Fast Idle Cam







Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **5/8″** below top surface of float chamber (without gasket) or level with bottom of the level sight hole To correct fuel level, hold air horn in inverted position at 4 lbs pressure · Place **Tool T-24971** on gasket Tops of floats should be level with tops of vertical guides, which will give approximate fuel level, change if necessary Sides of floats should be parallel to guides of tool without drag

MAIN METERING SYSTEM—Venturi **1-1/8″**; Main Discharge Jet **No. 36** P-22795 (**Tool T-24967**); High Speed Bleeder **No. 70** P-22369, Main Metering Jet **.053″** P 22660 (**Tool T-24924**); (**Tool T-19099**) used for removing main jet plug, Main Metering system controls the flow of fuel up to approximately 70 to 75 M P H

POWER SYSTEM—Power By Pass Jet **2 No. 56** 382454, Power jet to come into operation at **5″** to **7″** of manifold vacuum, which is approximately 70 to 75 M P H (**Tool T-24733**) used for removing P-22803 vacuum power piston

ACCELERATION—Pump Discharge Nozzle **No. 65;** Pump By Pass Jet **No. 63** P-23742, Pump capacity **21** to **25** c c per 10 fast strokes, and **27** to **31** c c per 10 slow strokes (Maximum Adjustment), (**Tool T-24972**) Pump action takes place during acceleration period only

IDLE SYSTEM—Idle Discharge holes **No. 54-56**; with throttle valve fully closed and **No. 56** drill in idle hole, edge of valve is located **.040″** + — **.004″** from **No. 56** drill, Idle Air Bleeder **No. 42** (in main body), Idle Tube **No. 70** P-19424, **Adjustment:** Adjust to smooth running one barrel at a time, OUT to make richer, and IN to make leaner, throttle at 6 M P H

FAST IDLE SETTING—With fast idle screw held against first step of fast idle cam, choke valve should be open so that a **1/8″** drill can be placed between the valve and the air horn The amount of opening can be adjusted by changing the position of the rod in the ball joint With throttle held in wide open position, choke valve should be open **7/32″**. The amount of opening can be changed by bending extended arm of fast idle cam

VACUUM SPARK CONTROL—With throttle fully closed and **No. 56** drill in spark hole, edge of valve is located **.015″** + — **.004″** from **No. 65** drill

SPECIAL TOOLS REQUIRED—Use Chrysler complete Tool Kit **SER. 387.** T-24971 Float Gauge, T-24967 Main Discharge Jet Remover T-24924 Main Metering Jet Wrench, T-24970 By-Pass Jet and Check Valve Tester, T-24972 Pump Capacity Burrette Gauge, T-24968 Handle T-24733 Power Piston Wrench, T 19099 Main jet plug screw driver

MOTOR TUNE-UP DATA

SPARK PLUG—.025″.
Clean and adjust at regular intervals.

DISTRIBUTOR—Breaker gap set .018″.
Replace if necessary.

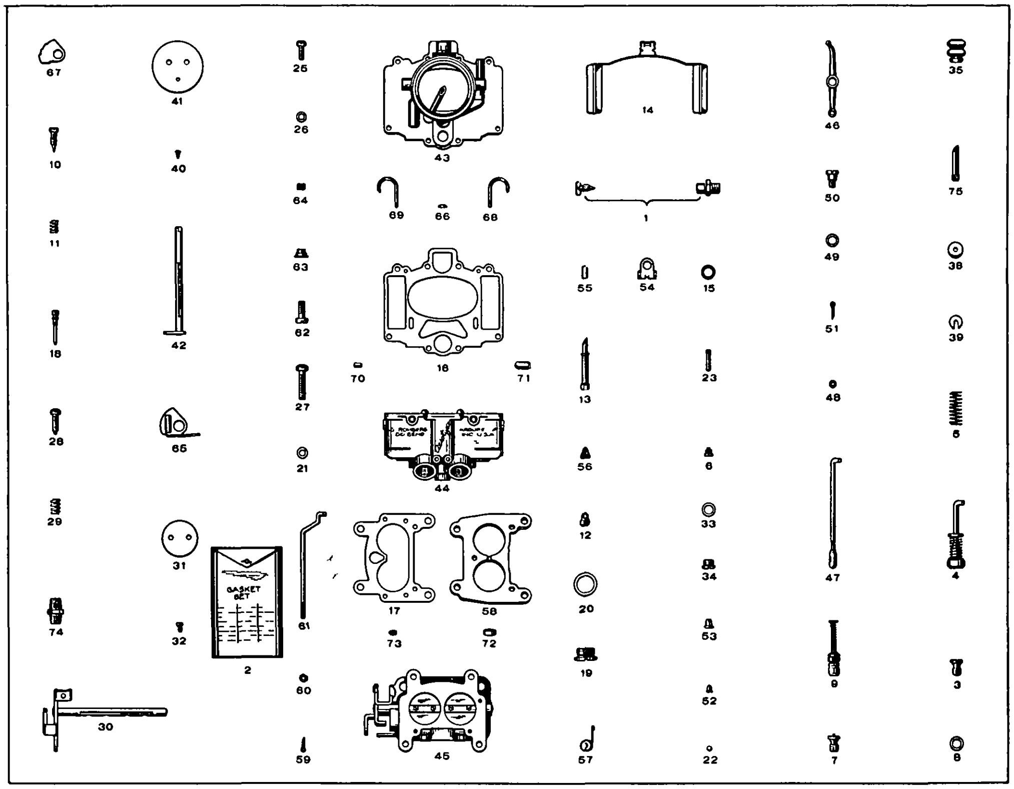
IGNITION TIMING—Breaker contacts to open for No. 8 cylinder as indicated below when timing marks on impulse neutralizer are in line with pointer.

Model	Ratio	Head	Setting
C-30	6.8	C.I.	T.D.C.
C-33	6.8	Alum.	3° B.T.D.C.

VALVES—Intake: .008″; Exhaust: .010″.
Engine hot.

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No	Part No	Part Name	
	1	**P-22499**	Float Needle Valve Clip & Seat 101″	**(NOT VAR)**
	* 2	**382395**	Complete Gasket Set.	
	3	**P-23742**	Pump By Pass Jet No 63	**(NOT VAR)**
	* 4	**382595**	Pump Piston Link and Spring (Complete)	
	5	**P-19526**	Spring—Pump Duration	
	6	**P-18144**	Pump Inlet Check Valve	
	* 7	**382454**	Power By Pass Jet 2 No 56	**(NOT VAR)**
	8	**P-19448**	Gasket—By Pass Jet.	
	9	**P-22803**	Vacuum Power Piston	
	10	**P-15478**	Idle Needle Valve	
	11	**P-18710**	Spring—Idle Needle Valve	
	12	**P-22660**	Metering Jet **053″**	**(VAR)**
	13	**P-22795**	Main Discharge Jet No 36	**(NOT VAR)**
	*14	**382269**	Float with Lever	
	15	**P-2885**	Gasket—Float Needle Valve Seat.	
	*16	**382255**	Gasket—Air Horn	
	*17	**382299**	Gasket—Main Body	
	18	**P-19424**	Idle Tube	
	19	**P-21767**	Plug—Main Discharge Jet	
	20	**P-22851**	Gasket—Main Discharge Jet Plug	
	21	**P-3157**	Lockwasher—Main Body Attach Screw	
	22	**P-18772**	Lead Ball	
	23	**P-22439**	Fulcrum Pin—Float Lever	
	25	**P-2475**	Screw—Air Horn Attaching	
	26	**P-6668**	Lockwasher—Air Horn Attaching Screw	
	27	**P-22867**	Screw—Main Body Attaching	
	28	**P-20424**	Screw—Throttle Stop	
	29	**P-15831**	Spring—Throttle Stop Screw	
	*30	**382589**	Throttle Lever and Stem	
	31	**P-22752**	Throttle Valve (5°)	**(NOT VAR)**
	32	**P-16716**	Screw—Throttle Valve Attaching	
	33	**P-7338**	Gasket—Check Valve Plug	
	34	**P-19716**	Plug—Check Valve	
	*35	**382242**	Seal—Pump Link	
	38	**P-22045**	Washer—Cup	
	39	**P-22046**	Washer—Spring Retainer	
	40	**P-4522**	Screw—Choke Valve Attach	
	41	**P-22809**	Choke Valve	
	42	**P-22791**	Choke Stem and Lever	
	*43	**382450**	Assy —Air Horn	
	44	**P-24851**	Assy —Main Body **1-1/8″** Venturi **No. 70** H S Bleeder **No 42** Idle Air Bleed	**(VAR)**
	*45	**382590**	Assy —Throttle Body (**No 54-56** idle holes **No 56** spark hole complete with throttle stem and valves)	**(VAR.)**
	*46	**382598**	Pump Lever	
	47	**P-22787**	Pump Rod	
	48	**P-9394**	Washer—Pump Rod	
	49	**P-19820**	Spring—Washer—Pump Lever Fulcrum Screw	
	50	**P-19433**	Fulcrum Screw—Pump Lever	
	51	**P-7170**	Cotter Pin—Pump Link	
	52	**P-15458**	Plug—Idle Discharge	
	53	**P-15459**	Plug—Idle Drilling Hole	
	54	**P-22441**	Hanger—Float	
	55	**P-22523**	Clip—Float Needle Valve	
	56	**P-23858**	Strainer—Check Valve	
	57	**P-22934**	Spring Clip—Throttle Lever	
	58	**P-22770**	Insulator—Main Body	
	59	**112-S-1**	Cotter Pin—Fast Idle Rod	
	60	**P-19587**	Nut—Fast Idle Rod Adj	
	61	**P-22788**	Rod—Fast Idle	
	*62	**382039**	Screw—Fast Idle Lever Fulcrum	
	*63	**382038**	Bushing—Fast Idle Lever	
	64	**P-6406**	Plug—Fuel Level Sight.	
	*65	**382040**	Fast Idle Lever	
	66	**P-8495**	Expansion Plug	
	67	**P-22792**	Fast Idle Cam	
	68	**P-23245**	Pump Disch Tube (Right) No 65	**(NOT VAR.)**
	69	**P-23246**	Pump Disch Tube (Left) No 65	**(NOT VAR)**
	70	**P-19430**	Pump Disch Tube Wedge	
	71	**P-22369**	High Speed Bleeder No 70	**(NOT VAR)**
	72	**P-17081**	Collar—Choke Stem	
	73	**P-16161**	Set Screw—Choke Stem Collar	
	74	**P-2459**	Nipple—Gas Conn	
	75	**P-24045**	Vent Tube	

*Indicates New Parts.

BENDIX PRODUCTS DIVISION

SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

STROMBERG "AAV-2" CARBURETOR

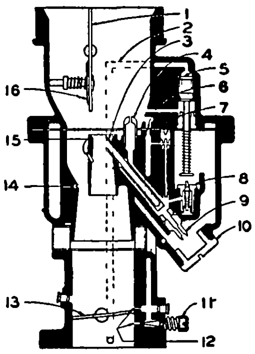
STROMBERG NO. A-18792 (CODE NO. 4-77C) CHRYSLER SYMBOL 685282

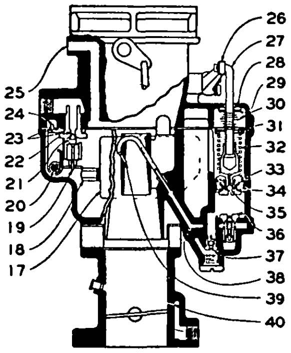
SIZE· 1-1/4" DUAL D. D. 4-HOLE FLANGE]

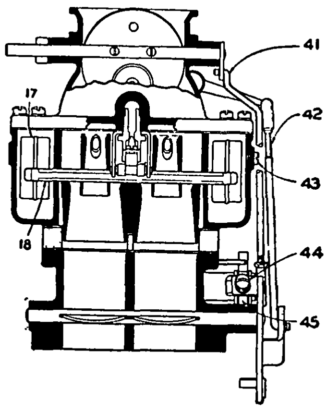
1938-40
CHRYSLER

MODELS
1938 C-20
1939 C-23, C-24
1940 C-26, C-27
3-1/4" x 4-7/8"—8 Cyl.

PARTS ILLUSTRATED







1. Choke Valve
2. Vacuum Channel
3. Main Discharge Jet
4. High Speed Bleeder
5. Power Vacuum Piston
6. Idle Air Bleeder
7. Idle Tube
8. Power By-Pass Jet
9. Main Metering Jet
10. Main Discharge Jet Plug
11. Idle Needle Valve
12. Idle Discharge Holes
13. Throttle Valve
14. Primary Venturi
15. Auxiliary Venturi
16. Choke Relief Valve
17. Float
18. Float Lever
19. Float Needle Valve Clip
20. Float Fulcrum Pin
21. Float Needle Valve
22. Float Needle Valve Seat
23. Float Hanger Gaskets
24. Float Hanger
25. Float Chamber Vent
26. Pump Fulcrum Arm
27. Pump Piston Link
28. Felt Dust Washer
29. Retainer Washer
30. Dust Washer Spring
31. Spring Retainer Washer
32. Pump Duration Spring
33. Pump Piston
34. Piston Expansion Spring
35. Pump Relief Valve
36. Pump By-Pass Jet
37. Pump Inlet Check Valve
38. Pump Discharge Channel
39. Pump Discharge Nozzle
40. Spark Control Hole
41. Fast Idle Rod
42. Pump Rod
43. Fuel Level Sight Plug
44. Throttle Stop Screw
45. Fast Idle Cam

Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **5/8"** below top surface of float chamber (without gasket) or level with bottom of the level sight hole. To correct fuel level, hold air horn in inverted position. Place **Tool T-24971** on gasket. Tops of floats should be level with tops of vertical guides, which will give approximate fuel level, change if necessary. Sides of floats should be tangent to guides of tool without drag.

MAIN METERING SYSTEM—Venturi **1-1/8"**; Main Discharge Jet **No. 36** P-22795 (**Tool T-24967**); High Speed Bleeder **No. 70** P-22369; Main Metering Jet **.049** P-22660 (**Tool T-24924**); (**Tool T-19099**) used for removing main jet plug; Main Metering system controls the flow of fuel up to approximately 70 to 75 M. P. H.

POWER SYSTEM—Power By-Pass Jet **No. 54** P-21197, Power jet to come into operation at **5"** to **7"** of manifold vacuum, which is approximately 70 to 75 M. P. H. (**Tool T-24733**) used for removing P-22803 vacuum power piston.

ACCELERATION—Pump Discharge Nozzle **No. 65**; Pump By-Pass Jet **No. 63** P-23742, Pump capacity **21** to **25** c. c. per 10 fast strokes, and **27** to **31** c. c. per 10 slow strokes (Maximum Adjustment); (**Tool T-24972**) Pump action takes place during acceleration period only.

IDLE SYSTEM—Idle Discharge holes **No. 54-56**; with throttle valve fully closed and **No. 56** drill in idle hole, edge of valve is located **.040" + — .004"** from **No. 56** drill; Idle Air Bleeder **No. 42** (in main body); Idle Tube **No. 70** P-19424; **Adjustment:** Adjust to smooth running one barrel at a time, OUT to make richer, and IN to make leaner, throttle at 6 M. P. H.

FAST IDLE SETTING—With fast idle screw held against first step of fast idle cam, choke valve should be open so that a **1/8"** drill can be placed between the valve and the air horn. The amount of opening can be adjusted by changing the position of the rod in the ball joint. With throttle held in wide open position, choke valve should be open **7/32"**. The amount of opening can be changed by bending extended arm of fast idle cam.

VACUUM SPARK CONTROL—With throttle fully closed and **No. 56** drill in spark hole, edge of valve is located **.015" + — .004"** from **No. 56** drill.

SPECIAL TOOLS REQUIRED—Use Chrysler complete Tool Kit **SER. 387.** T-24971 Float Gauge; T-24967 Main Discharge Jet Remover, T-24924 Main Metering Jet Wrench, T-24970 By-Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burrette Gauge, T-24968 Handle. T-24733 Power Piston Wrench; T-19099 Main jet plug screw driver

MOTOR TUNE-UP DATA

SPARK PLUG—.025".
Clean and adjust at regular intervals.

DISTRIBUTOR—.018".
Breaker gap set .018". Replace if necessary.

VALVES—Intake: Model '38 C-20, .006".
Models '39 C-23 and '39 C-24, '40 C-26 and '40 C-27, .008".

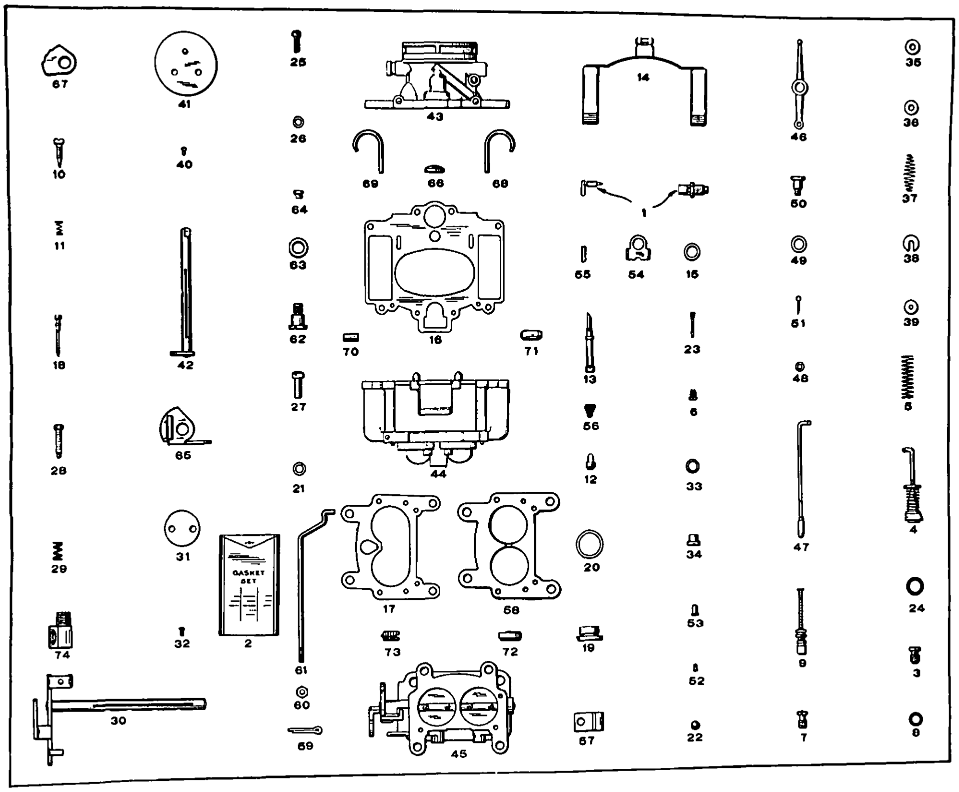
Exhaust: .010"
Engine hot.

IGNITION TIMING—Breaker contacts to open for No. 8 cylinder as indicated below when timing marks on impulse neutralizer are in line with pointer.

Model	Ratio	Type head	Ignition setting.
C-20	6.5	Alum.	T.D.C.
C-20	7.45	Alum.	T.D.C.
C-23	6.8	Cast iron	T.D.C.
C-24	6.8	Alum.	T.D.C. 3° advance or retard
C-26			T.D.C. 3° advance or retard
C-27			T.D.C. 3° advance or retard

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No.	Part No	Part Name
	1	P-22499	Float Needle Valve Clip & Seat 101" (NOT VAR)
	2	J-5316-G	Complete Gasket Set
	3	P-23742	Pump By Pass Jet No 63 (NOT VAR)
	4	P-22857	Pump Piston Link and Spring (Complete)
	5	P-19526	Spring—Pump Duration
	6	P-18144	Pump Inlet Check Valve
	7	P-21197	Power By Pass Jet No 54 (NOT VAR)
	8	P-19448	Gasket—By Pass Jet
	9	P-22803	Vacuum Power Piston
	10	P-15478	Idle Needle Valve
	11	P-18710	Spring—Idle Needle Valve
	12	P-22660	Metering Jet 049" (VAR)
	13	P-22795	Main Discharge Jet No 36 (NOT VAR)
	14	P-22433	Float with Lever
	15	P-2885	Gasket—Float Needle Valve Seat
	16	P-22451	Gasket—Air Horn
	17	P-22522	Gasket—Main Body
	18	P-19424	Idle Tube No 70 (NOT VAR)
	19	P-21767	Plug—Main Discharge Jet
	20	P-22851	Gasket—Main Discharge Jet Plug
	21	P-3157	Lockwasher—Main Body Attaching Screw
	22	P-18772	Lead Ball
	23	P-22439	Fulcrum Pin—Float Lever
	24	P-21568	Spring—Pump Piston Leather Expansion
	25	P-2475	Screw—Air Horn Attaching
	26	P-6668	Lockwasher—Air Horn Attach Screw
	27	P-22867	Screw—Main Body Attaching
	28	P-20424	Screw—Idle Adj
	29	P-15831	Spring—Idle Adj Screw
	30	P-23656	Throttle Lever and Stem
	31	P-22752	Throttle Valve (5°) (NOT VAR)
	32	P-16716	Screw—Throttle Valve Attaching
	33	P-7338	Gasket—Check Valve Plug
	34	P-19716	Plug—Check Valve
	35	P-17380	Washer—Felt
	36	P-17060	Washer—Splash—Pump Link
	37	P-22643	Spring—Felt Retainer
	38	P-22045	Washer—Cup
	39	P-22046	Washer—Spring Retainer
	40	P-4522	Screw—Choke Valve Attaching
	41	P-22809	Choke Valve
	42	P-22791	Choke Lever and Stem
	43	P-24849	Air Horn Assy
	44	P-24851	Assy —Main Body 1-1/8" Venturi (complete with No 70 H S Bleeder—Pump Disch Tube and Idle Air Bleed) (VAR)
	45	P-24850	Assy —Throttle Body No 54-56 Idle Discharge Holes No 56 Spark Control Hole (VAR)
		P-22853	Fast Idle Cam Stop Pin
	46	P-22430	Pump Lever
	47	P-22787	Pump Rod
	48	P-9394	Washer—Pump Rod
	49	P-19820	Spring Washer—Pump Lever Fulcrum Screw
	50	P-19433	Fulcrum Screw—Pump Lever
	51	P-7170	Cotter Pin—Pump Link
	52	P-15458	Plug—Idle Discharge No 10
	53	P-15459	Plug—Vac Spark and Idle Discharge Hole
	54	P-22441	Float Hanger
	55	P-22523	Clip—Float Needle Valve
	56	P-23858	Strainer—Pump Check Valve
	57	P-22934	Spring Clip—Throttle Lever
	58	P-22770	Gasket—Insulator—Main Body
	59	112-S-1	Cotter Pin—Fast Idle Rod
	60	P-19587	Nut—Fast Idle Rod Adj
	61	P-22788	Fast Idle Rod
	62	P-20745	Screw—Fulcrum—Fast Idle Cam
	63	P-20744	Washer—Fast Idle Cam
	64	P-6406	Plug—Fuel Level Sight
	65	P-22794	Assy —Fast Idle Cam Lever
	66	P-8495	Plug—Expansion
	67	P-22792	Fast Idle Cam
	68	*P-23245	Tube—Pump Discharge (right).
	69	*P-23246	Tube—Pump Discharge (left)
	70	P-19430	Wedge—Pump Discharge Tube
	71	P-22369	High Speed Bleeder No 70 (VAR)
	72	P-17081	Collar—Choke Stem
	73	P-16161	Set Screw—Choke Stem Collar
	74	P-17481	Union—Gasoline Elbow

NOTE—For parts marked (VAR) size must be specified when ordered.

***NOTE—New style Pump Discharge Tube, supersedes P-20232.**

BENDIX PRODUCTS DIVISION

SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

STROMBERG "AAV-2" CARBURETOR

STROMBERG NO. A-18792 (CODE NO. 4-77C) CHRYSLER SYMBOL 685282

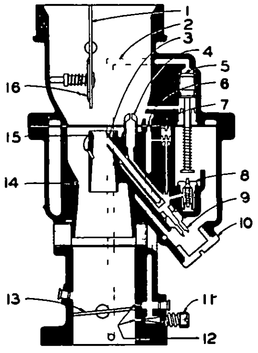
SIZE: 1¼" DUAL D. D.

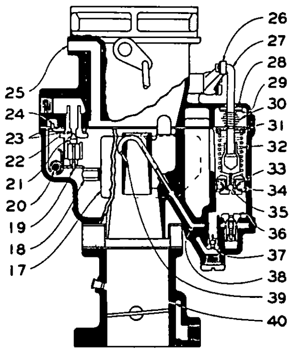
1938-39 CHRYSLER

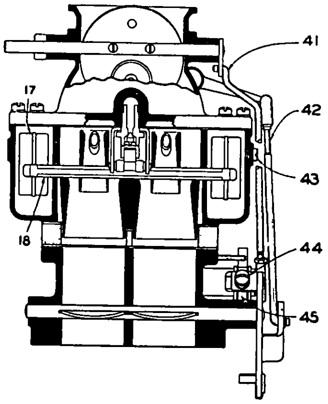
MODELS
1938 "C-20"
1939 "C-23" and "C-24"
3¼x4⅞—8 cyl.

PARTS ILLUSTRATED

1 Choke Valve
2 Vacuum Channel
3 Main Discharge Jet
4 High Speed Bleeder
5 Power Vacuum Piston
6 Idle Air Bleeder
7 Idle Tube
8 Power By-Pass Jet
9 Main Metering Jet
10 Main Discharge Jet Plug
11 Idle Needle Valve
12 Idle Discharge Holes
13 Throttle Valve
14 Primary Venturi
15 Auxiliary Venturi
16 Choke Relief Valve
17 Float
18 Float Lever
19 Float Needle Valve Clip
20. Float Fulcrum Pin
21 Float Needle Valve
22 Float Needle Valve Seat
23 Float Hanger Gaskets
24 Float Hanger
25 Float Chamber Vent
26 Pump Fulcrum Arm
27 Pump Piston Link
28 Felt Dust Washer
29 Retainer Washer
30 Dust Washer Spring
31 Spring Retainer Washer
32 Pump Duration Spring
33 Pump Piston
34 Piston Expansion Spring
35 Pump Relief Valve
36 Pump By-Pass Jet
37 Pump Inlet Check Valve
38 Pump Discharge Channel
39 Pump Discharge Nozzle
40 Spark Control Hole
41 Fast Idle Rod
42 Pump Rod
43 Fuel Level Sight Plug
44 Throttle Stop Screw
45 Fast Idle Cam







Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure ⅝" below top surface of float chamber (without gasket) or level with bottom of the level sight hole. To correct fuel level, hold air horn in inverted position. Place **Tool T-24971** on gasket. Tops of floats should be level with tops of vertical guides, which will give approximate fuel level; change if necessary. Sides of floats should be tangent to guides of tool without drag.

MAIN METERING SYSTEM—Venturi 1⅛"; Main Discharge Jet **No. 36** P-22795 **(Tool T-24967)**; High Speed Bleeder **No. 70** P-22369; Main Metering Jet **.049** P-22660 **(Tool T-24924)**; **(Tool T-19099)** used for removing main jet plug; Main Metering system controls the flow of fuel up to approximately 70 to 75 M. P. H.

POWER SYSTEM—Power By-Pass Jet **No. 54** P-21197; Power jet to come into operation at **5"** to **7"** of manifold vacuum, which is approximately 70 to 75 M. P. H. **(Tool T-24733)** used for removing P-22803 vacuum power piston.

ACCELERATION — Pump Discharge Nozzles **No. 65**; Pump By-Pass Jet **No. 63** P-23742; Pump capacity **21** to **25** c.c. per 10 fast strokes, and **27** to **31** c.c. per 10 slow strokes (Maximum Adjustment); **(Tool T-24972)** Pump action takes place during acceleration period only.

IDLE SYSTEM—Idle Discharge holes **No. 54-56**; with throttle valve fully closed and **No. 56** drill in idle hole, edge of valve is located **.040" + — .004"** from **No. 56** drill; Idle Air Bleeder **No. 42** (in main body); Idle Tube **No. 70** P-19424; **Adjustment:** Adjust to smooth running one barrel at a time, OUT to make richer, and IN to make leaner; throttle at 6 M. P. H.

FAST IDLE SETTING—With fast idle screw held against first step of fast idle cam, choke valve should be open so that a ⅛" drill can be placed between the valve and the air horn. The amount of opening can be adjusted by changing the position of the rod in the ball joint. With throttle held in wide open position, choke valve should be open **7/32"**. The amount of opening can be changed by bending extended arm of fast idle cam.

VACUUM SPARK CONTROL—With throttle fully closed and **No. 56** drill in spark hole, edge of valve is located **.015" + — .004"** from **No. 56** drill.

SPECIAL TOOLS REQUIRED—Use Chrysler complete Tool Kit **SER. 387.** T-24971 Float Gauge; T-24967 Main Discharge Jet Remover; T-24924 Main Metering Jet Wrench; T-24970 By-Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burrette Gauge; T-24968 Handle. T-24733 Power Piston Wrench; T-19099 Main jet plug screw driver.

MOTOR TUNE UP DATA

SPARK PLUG—.025".
Clean and adjust at regular intervals.

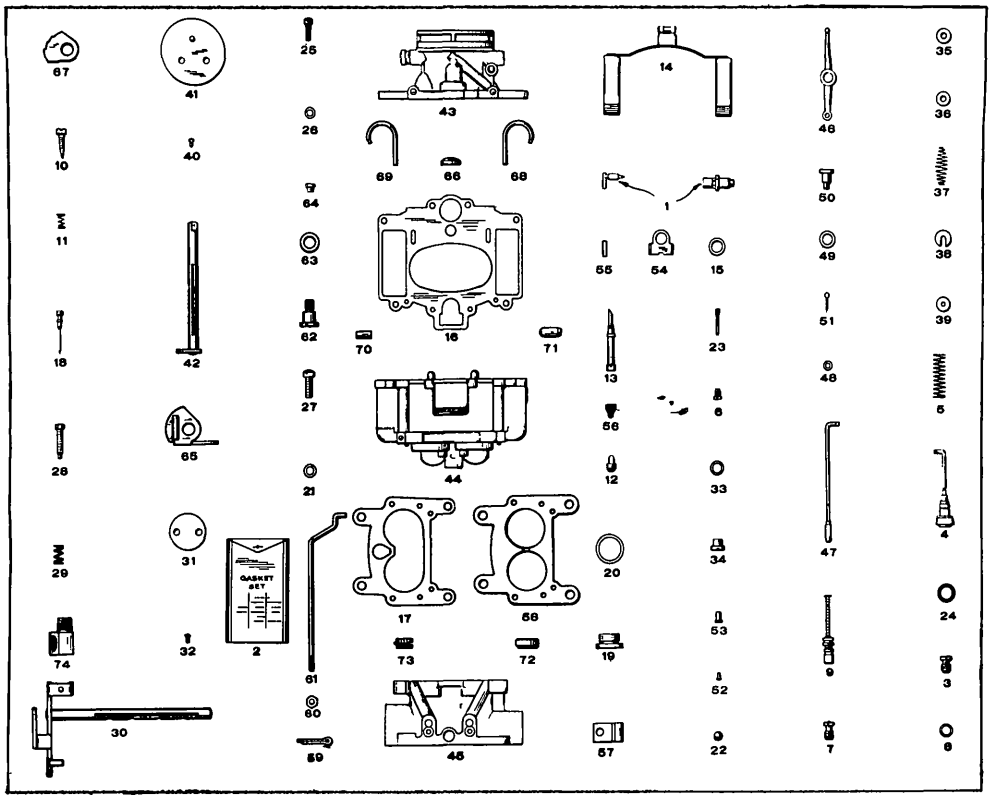
DISTRIBUTOR—.018".
Breaker gap set .018". Replace if necessary.

VALVES—Intake: .006"; Exhaust: .010".
Engine hot.

IGNITION TIMING—Break r contacts to open for No. 8 cylinder as indicated below when timing marks on impulse neutralizer are in line with point r.

Model	Ratio	Type head	Ignition setting
C-20	6.5	Alum.	T. D. C.
C-20	7.45	Alum.	T. D. C. with Ethyl gas
C-23	6.8	Cast iron	T. D. C.
C-24	6.8	Alum.	3° B. T. C. with reg. gas

SERVICE RECOMMENDATION — Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No.	Part No.	Part Name	
	1	P-22499	Float needle valve, clip & seat 101'	(NOT VAR.)
	2	J-5316-G	Complete gasket set	
	3	P-23742	Pump by-pass jet No 63	(NOT VAR.)
	4	P-22858	Pump piston and link	(Includes P-21568)
	4-A	P-22857	Pump piston, link and spring (complete)	
	5	P-19526	Spring—pump duration	
	6	P-18144	Pump inlet check valve	
	7	P-21197	Power by-pass jet No 54	(NOT VAR.)
	8	P-19448	Gasket—by-pass jet	
	9	P-22803	Vacuum power piston	
	10	P-15478	Idle needle valve	
	11	P-18710	Spring—idle needle valve	
	12	P-22660	Metering jet .049"	(VAR.)
	13	P-22795	Main discharge jet No 36	(NOT VAR.)
	14	P-22433	Float with lever	
	15	P-2885	Gasket—float needle valve seat	
	16	P-22451	Gasket—air horn	
	17	P-22522	Gasket—main body	
	18	P-19424	Idle tube No 70	(NOT VAR.)
	19	P-21767	Plug—main discharge jet	
	20	P-22851	Gasket—main discharge jet plug	
	21	P-3157	Lockwasher—main body attaching screw	
	22	P-18772	Lead ball	
	23	P-22439	Fulcrum pin—float lever	
	24	P-21568	Spring—pump piston leather expansion	
	25	P-2475	Screw—air horn attaching	
	26	P-6668	Lockwasher—air horn attach screw	
	27	P-22867	Screw—main body attaching	
	28	P-20424	Screw—idle adj	
	29	P-15831	Spring—idle adj screw	
	30	P-23656	Throttle lever and stem	
	31	P-22752	Throttle valve (5°)	(NOT VAR.)
	32	P-16716	Screw—throttle valve attaching	
	33	P-7338	Gasket—check valve plug	
	34	P-19716	Plug—check valve	
	35	P-17380	Washer—felt	
	36	P-17060	Washer—splash—pump link	
	37	P-22643	Spring—felt retainer	
	38	P-22045	Washer—cup	
	39	P-22046	Washer—spring retainer	
	40	P-4522	Screw—choke valve attaching	
	41	P-22809	Choke valve	
	42	P-22791	Choke lever and stem	
	43	P-22771-T	Air horn	
	43-A	P-22781	(Assy) air horn and valve	
	44	P-23751	Assy—main body 1⅛" venturi (complete with No 70 H S bleeder—pump disch tube and idle air bleed)	(VAR.)
	45	P-23703	Assy—throttle body No 54-56 idle discharge holes No 56 spark control hole	(VAR.)
		P-22853	Fast idle cam stop pin	
	46	P-22430	Pump lever	
	47	P-22787	Pump rod	
	48	P-9394	Washer—pump rod	
	49	P-19820	Spring washer—pump lever fulcrum screw	
	50	P-19433	Fulcrum screw—pump lever	
	51	P-7170	Cotter pin—pump link	
	52	P-15458	Plug—idle discharge No 10	
	53	P-15459	Plug—vac spark and idle discharge hole	
	54	P-22441	Float hanger	
	55	P-22523	Clip—float needle valve	
	56	P-23858	Strainer—pump check valve	
	57	P-22934	Spring clip—throttle lever	
	58	P-22770	Gasket—insulator—main body	
	59	112-s-1	Cotter pin—fast idle rod	
	60	P-19587	Nut—fast idle rod adj	
	61	P-22788	Fast idle rod	
	62	P 20745	Screw—fulcrum—fast idle cam	
	63	P 20744	Washer—fast idle cam	
	64	P-6406	Plug—fuel level sight	
	65	P-22794	Assy—fast idle cam lever	
		P-22801	Ball joint	
	66	P-8495	Plug—expansion	
	67	P-22792	Fast idle cam	
	68	*P-23245	Tube—pump discharge (right)	
	69	*P-23246	Tube—pump discharge (left)	
	70	P-19430	Wedge—pump discharge tube	
	71	P-22369	High speed bleeder No 70	(VAR.)
	72	P-17081	Collar—choke stem	
	73	P-16161	Set screw—choke stem collar	
	74	P-17481	Union—gasoline elbow	

NOTE—For parts marked (VAR.) size must be specified when ordering.

***NOTE: New style pump discharge tube, supersedes P-20232.**

BENDIX PRODUCTS DIVISION

SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

STROMBERG "AAV-2" CARBURETOR

STROMBERG NO. A-18782 (CODE NO. 4-76C) CHRYSLER SYMBOL 685281

SIZE: 1¼" DUAL D. D.

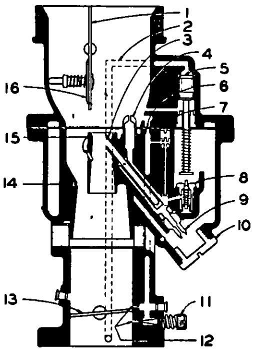
1938 CHRYSLER

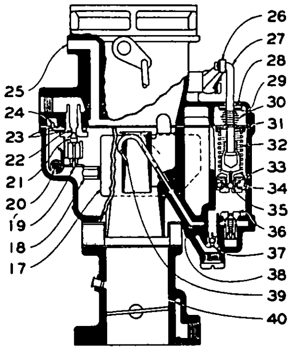
MODEL "C-19"

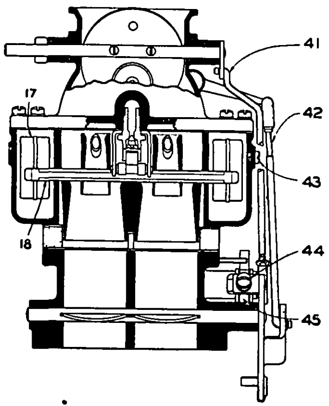
3¼x4½—8 cyl.

PARTS ILLUSTRATED

1. Choke Valve
2. Vacuum Channel
3. Main Discharge Jet
4. High Speed Bleeder
5. Power Vacuum Piston
6. Idle Air Bleeder
7. Idle Tube
8. Power By-Pass Jet
9. Main Metering Jet
10. Main Discharge Jet Plug
11. Idle Needle Valve
12. Idle Discharge Holes
13. Throttle Valve
14. Primary Venturi
15. Auxiliary Venturi
16. Choke Relief Valve
17. Float
18. Float Lever
19. Float Needle Valve Clip
20. Float Fulcrum Pin
21. Float Needle Valve
22. Float Needle Valve Seat
23. Float Hanger Gaskets
24. Float Hanger
25. Float Chamber Vent
26. Pump Fulcrum Arm
27. Pump Piston Link
28. Felt Dust Washer
29. Retainer Washer
30. Dust Washer Spring
31. Spring Retainer Washer
32. Pump Duration Spring
33. Pump Piston
34. Piston Expansion Spring
35. Pump Relief Valve
36. Pump By-Pass Jet
37. Pump Inlet Check Valve
38. Pump Discharge Channel
39. Pump Discharge Nozzle
40. Spark Control Hole
41. Fast Idle Rod
42. Pump Rod
43. Fuel Level Sight Plug
44. Throttle Stop Screw
45. Fast Idle Cam







Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure ⅝" below top surface of float chamber (without gasket) or level with bottom of the level sight hole. To correct fuel level, hold air horn in inverted position. Place **Tool T-24971** on gasket. Tops of floats should be level with tops of vertical guides, which will give approximate fuel level; change if necessary. Sides of floats should be tangent to guides of tool without drag.

MAIN METERING SYSTEM—Venturi **1-1/32"**; Main Discharge Jet **No. 36** P-22795 **(Tool T-24967)**; High Speed Bleeder **No. 70** P-22369; Main Metering Jet **.047"** P-22660 **(Tool T-24924) (Tool T-19099)** used for removing main jet plug; Main Metering system controls the flow of fuel up to approximately 70 to 75 M. P. H.

POWER SYSTEM—Power By-Pass Jet **No. 56** P-21657; Power jet to come into operation at **5"** to **7"** of manifold vacuum, which is approximately 70 to 75 M. P. H. **(Tool T-24733)** used for removing P-22803 vacuum power piston.

ACCELERATION — Pump Discharge Nozzle **No. 65**; Pump By-Pass Jet **No. 63** P-23742; Pump capacity **7** to **11** c.c. per 10 fast strokes, and **23** to **27** c.c. per 10 slow strokes (Maximum Adjustment); **(Tool T-24972)** Pump action takes place during acceleration period only.

IDLE SYSTEM—Idle Discharge holes **No. 54-60**; with throttle valve fully closed and **No. 60** drill in idle hole, edge of valve is located **.040" + — .004"** from **No. 60** drill; Idle Air Bleed **No. 40** (in main body); Idle Tube **No. 70** P-19424; **Adjustment:** Adjust to smooth running one barrel at a time. OUT to make richer, and IN to make leaner; throttle at 6 M. P. H.

FAST IDLE SETTING—With fast idle screw held against first step of fast idle cam, choke valve should be open so that a ⅛" drill can be placed between the valve and the air horn. The amount of opening can be adjusted by changing the position of the rod in the ball joint. With throttle held in wide open position, choke valve should be open **7/32"**. The amount of opening can be changed by bending extended arm of fast idle cam.

VACUUM SPARK CONTROL—With throttle fully closed and **No. 56** drill in spark hole, edge of valve is located **.015" + — .004"** from No. 56 drill.

FLANGE GASKET—P-18165.

SPECIAL TOOLS REQUIRED—Use Chrysler complete Tool Kit **SER. 387.** T-24971 Float Gauge; T-24967 Main Discharge Jet Remover; T-24924 Main Metering Jet Wrench; T-24970 By-Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burrette Gauge; T-24968 Handle. T-24733 Power Piston Wrench; T-19099 Main jet plug screw driver.

MOTOR TUNE UP DATA

SPARK PLUG—.025".
Clean and adjust at regular intervals.

DISTRIBUTOR—.018".
Breaker gap set .018". Replace if necessary.

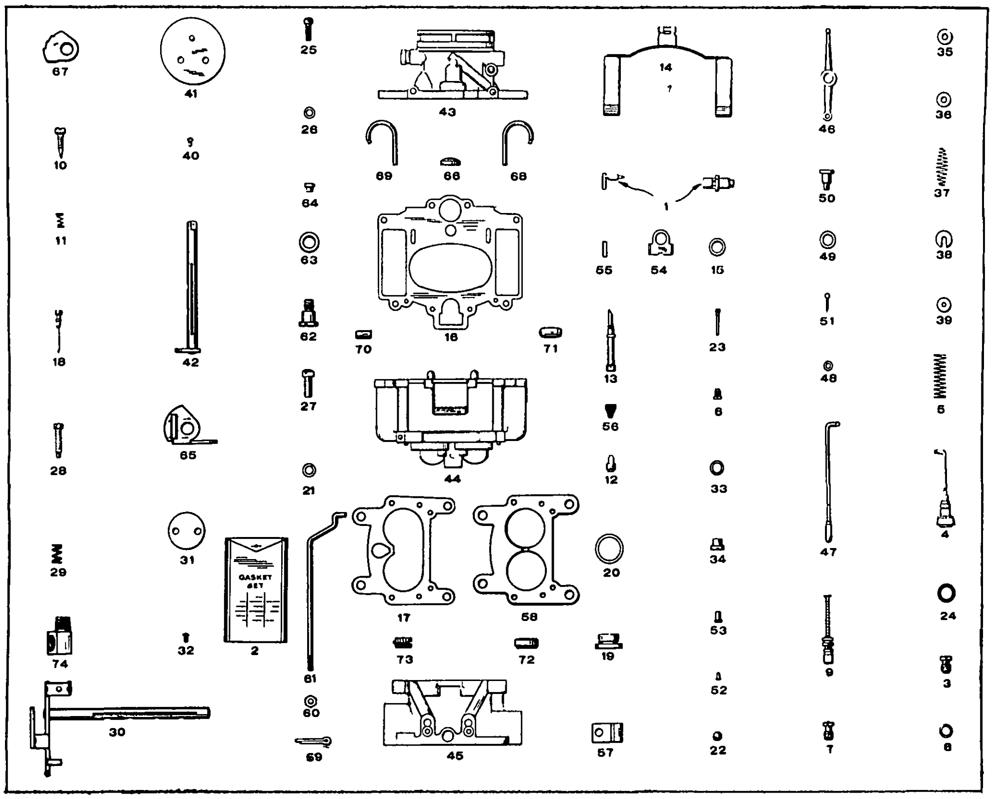
VALVES—Intake: .006"; Exhaust: .010".
Engine hot.

SERVICE RECOMMENDATION — Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

IGNITION TIMING—Contacts to open for No. 8 cylinder as indicated below when timing marks on impulse neutralizer are in line with pointer.

Ratio—Type head—Ignition setting.

6.2	**Cast iron**	**3° B. T. C.**
6.5	**Alum.**	**T. D. C.**
7.4	**Alum.**	**3° A. T. C. with Ethyl gas.**



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No.	Part No.	Part Name	
	1	P-22499	Float needle valve clip & seat— 101"	(NOT VAR.)
	2	J-5316-G	Complete gasket set	
	3	P-23742	Pump by-pass jet No 63	(NOT VAR.)
	4	P-23239	Pump piston and link	(Includes P-21568)
	4-A	P-23238	Pump piston link and spring (complete)	
	5	P-19526	Spring—pump duration	
	6	P-18144	Pump inlet check valve	
	7	P-21657	Power by-pass jet No 56	(NOT VAR.)
	8	P-19448	Gasket—by-pass jet	
	9	P-22803	Vacuum power piston	
	10	P-15478	Idle needle valve	
	11	P-18710	Spring—idle needle valve	
	12	P-22660	Metering jet **.047"**	(VAR.)
	13	P-22795	Main discharge jet No 36	(NOT VAR.)
	14	P-22433	Float with lever	
	15	P-2885	Gasket—float needle valve seat	
	16	P-22451	Gasket—air horn	
	17	P-22522	Gasket—main body	
	18	P-19424	Idle tube No 70	(NOT VAR.)
	19	P-21767	Plug—main discharge jet	
	20	P-22851	Gasket—main discharge jet plug	
	21	P-3157	Lockwasher—main body attaching screw	
	22	P-18772	Lead ball	
	23	P-22439	Fulcrum pin—Float lever	
	24	P-21568	Spring—pump piston leather expansion	
	25	P-2475	Screw—air horn attaching	
	26	P-6668	Lockwasher—air horn attach screw	
	27	P-22867	Screw—main body attaching	
	28	P-20424	Screw—idle adj	
	29	P-15831	Spring—idle adj screw	
	30	P-23656	Throttle lever and stem	
	31	P-22752	Throttle valve (5°)	(NOT VAR.)
	32	P-16716	Screw—throttle valve attaching	
	33	P-7338	Gasket—check valve plug	
	34	P-19716	Plug—check valve	
	35	P-17380	Washer—felt	
	36	P-17060	Washer—splash—pump link	
	37	P-22643	Spring—felt retainer	
	38	P-22045	Washer—cup	
	39	P-22046	Washer—spring retainer	

NOTE: For parts marked (VAR.) size must be specified when ordering.

Bin Location	Key No.	Part* No.	*Part Name	
	40	P-4522	Screw—choke valve attaching	
	41	P-22809	Choke valve	
	42	P-22791	Choke lever and stem	
	43	P-22771-T	Air horn	
	43-A	P-22781	(Assy air horn and valve	
	44	P-23729	Assembly—main body **1-1/32"** venturi (complete with No **70** H S bleed and pump disch tube and idle air bleed)	(VAR.)
	45	P-23703	Assy —throttle body No **54-60** idle disch holes **No. 56** Vac spark control hole	(VAR.)
		P-22853	Fast idle cam stop pin	
	46	P-22430	Pump lever	
	47	P-22787	Pump rod	
	48	P-9394	Washer—pump rod	
	49	P-19820	Spring washer—pump lever fulcrum screw	
	50	P-19433	Fulcrum screw—pump lever	
	51	P-7170	Cotter pin—pump link	
	52	P-15458	Plug—idle disch No 10	
	53	P-15459	Plug—idle disch and vac spark	
	54	P-22441	Float hanger	
	55	P-22523	Clip—float needle valve	
	56	P-23858	Strainer—pump check valve	
	57	P-22934	Spring clip—throttle lever	
	58	P-22770	Gasket—insulator—main body	
	59	112-s-1	Cotter pin—fast idle rod	
	60	P-19587	Nut—fast idle rod adj	
	61	P-22788	Fast idle rod	
	62	P-20745	Screw—fulcrum—fast idle cam	
	63	P-20744	Washer—fast idle cam	
	64	P-6406	Plug—fuel level sight	
	65	P-22794	Assy —fast idle cam lever	
		P-22801	Ball joint	
	66	P-8495	Plug—expansion	
	67	P-22792	Fast idle cam	
	68	*P-23245	Tube—pump discharge—right	
	69	*P-23246	Tube—pump discharge—left	
	70	P-19430	Wedge—pump discharge tube	
	71	P-22369	High speed bleeder No **70**	(VAR.)
	72	P-17081	Collar—choke stem	
	73	P-16161	Set screw—choke stem collar	

***NOTE: New Style—Supersedes P-20232 pump discharge tube.**

BENDIX PRODUCTS DIVISION

SOUTH BEND **OF BENDIX AVIATION CORPORATION** **INDIANA**

STROMBERG "AAOV-1" CARBURETOR

STROMBERG NO. A-18441 (CODE NO. 4-72B) CHRYSLER SYMBOL 671876

SIZE: 1⅛" DUAL D. D. 1¼" FLANGE **REPLACE WITH AAV-2 J-5493**

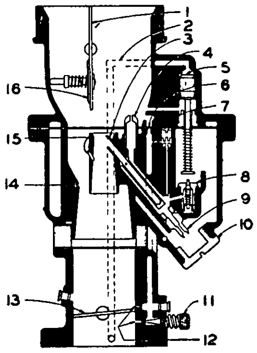
1937 CHRYSLER

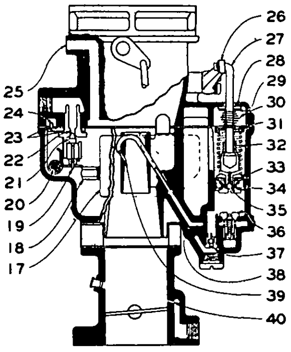
MODEL "C-15"

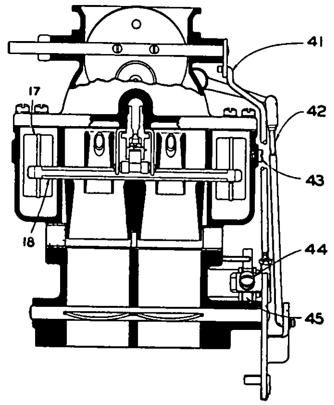
3¼x4⅞—8 cyl.

PARTS ILLUSTRATED

1. Choke Valve
2. Vacuum Channel
3. Main Discharge Jet
4. High Speed Bleeder
5. Power Vacuum Piston
6. Idle Air Bleeder
7. Idle Tube
8. Power By-Pass Jet
9. Main Metering Jet
10. Main Discharge Jet Plug
11. Idle Needle Valve
12. Idle Discharge Holes
13. Throttle Valve
14. Primary Venturi
15. Auxiliary Venturi
16. Choke Relief Valve
17. Float
18. Float Lever
19. Float Needle Valve Clip
20. Float Fulcrum Pin
21. Float Needle Valve
22. Float Needle Valve Seat
23. Float Hanger Gaskets
24. Float Hanger
25. Float Chamber Vent
26. Pump Fulcrum Arm
27. Pump Piston Link
28. Felt Dust Washer
29. Retainer Washer
30. Dust Washer Spring
31. Spring Retainer Washer
32. Pump Duration Spring
33. Pump Piston
34. Piston Expansion Spring
35. Pump Relief Valve
36. Pump By-Pass Jet
37. Pump Inlet Check Valve
38. Pump Discharge Channel
39. Pump Discharge Nozzle
40. Spark Control Hole
41. Fast Idle Rod
42. Pump Rod
43. Fuel Level Sight Plug
44. Throttle Stop Screw
45. Fast Idle Cam







Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure ⅝" below top surface of float chamber (without gasket) or level with bottom of the level sight hole. To correct fuel level, hold air horn in inverted position. Place **Tool T-24971** on gasket. Tops of floats should be level with tops of vertical guides, which will give approximate fuel level; change if necessary. Sides of floats should be tangent to guides of tool without drag.

MAIN METERING SYSTEM—Venturi **1⅛"; Main Discharge Jet No. 36** P-22795 **(Tool T-24967).** High Speed Bleeder **No. 70 P-22369;** Main Metering Jet **.049"** P.22660 **(Tool T-24924): (Tool T-19099)** used for removing main jet plug; Main Metering system controls the flow of fuel up to approximately 70 to 75 M. P. H.

POWER SYSTEM—Power By-Pass Jet **No. 54** P-21197; Power jet to come into operation at **5"** to **7"** of manifold vacuum, which is approximately 70 to 75 M. P. H. **(Tool T-24733)** used for removing P-22803 vacuum power piston.

ACCELERATION—Pump Discharge Nozzles **No. 60;** Pump By-Pass Jet **No. 63** P-23742; Pump capacity **21** to **25** c.c. per 10 fast strokes, and **27** to **31** c.c. per 10 slow strokes (Maximum Adjustment); **(Tool T-24972).** Pump action takes place during acceleration period only.

IDLE SYSTEM—Idle Discharge holes **No. 54-60;** with throttle valve fully closed and **No. 60** drill in idle hole, edge of valve is located **.040"** + — **.004"** from **No. 60** drill; Idle Air Bleed **No. 44** (in main body). Idle Tube **No. 70** P-19424; **Adjustment:** Adjust to smooth running one barrel at a time, OUT to make richer and IN to make leaner; throttle at 6 M. P. H.

FAST IDLE SETTING—With fast idle screw held against first step of fast idle cam, choke valve should be open so that a **⅛"** drill can be placed between the valve and the air horn. The amount of opening can be adjusted by changing the position of the rod in the ball joint. With throttle held in wide open position, choke valve should be open **7/32".** The amount of opening can be changed by bending extended arm of fast idle cam.

VACUUM SPARK CONTROL—With throttle fully closed and **No. 56** drill in spark hole, edge of valve is located **.031"** + — **.004"** from **No. 56** drill.

FLANGE GASKET—P-18165.

SPECIAL TOOLS REQUIRED—Use Chrysler Tool Kit **SER. No. 387.** T-24971 Float Gauge; T-24967 Main Discharge Jet Remover; T-24924 Main Metering Jet Wrench; T-24970 By-Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burrette Gauge; T-24968 Handle. T-24733 Power Piston Wrench; T-19099 Main jet plug screw driver.

MOTOR TUNE UP DATA

SPARK PLUG—.025".
Clean and adjust at regular intervals.

IGNITION TIMING—Contacts to open for No. 8 cylinder as indicated below when timing marks on impulse neutralizer arm in line with pointer.

Ratio—Type head—Ignition setting.

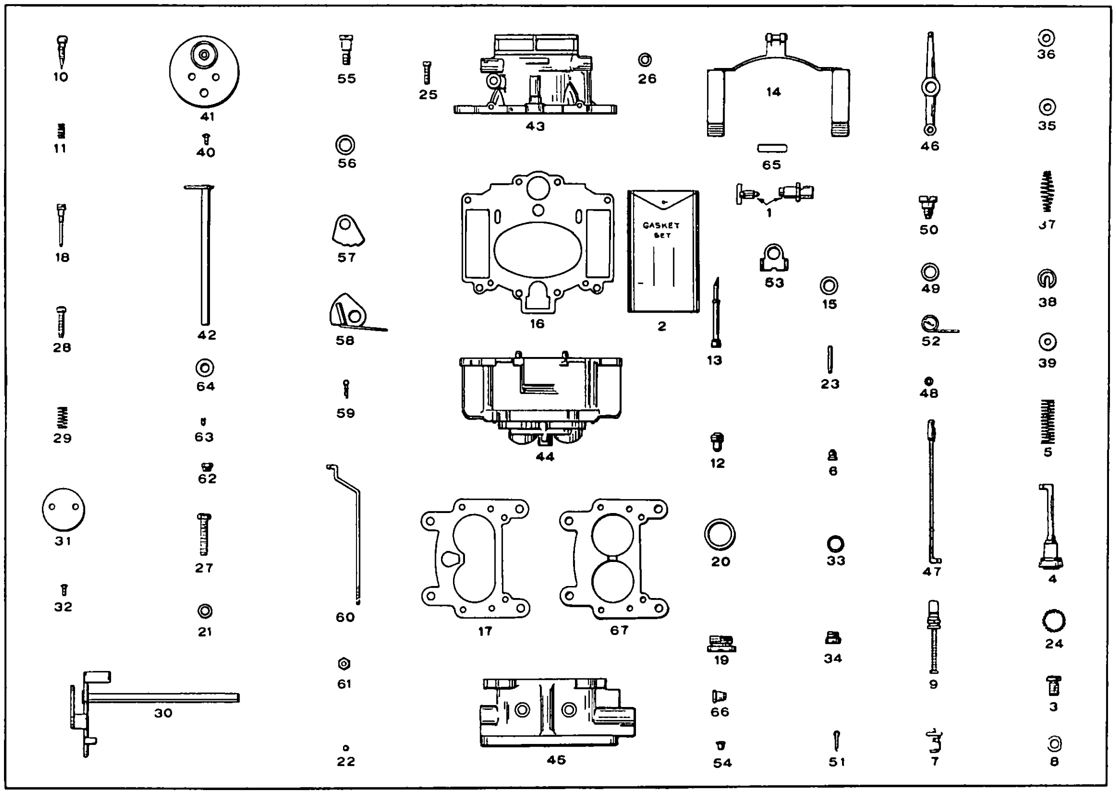
6.5	**Alum.**	**5° A. T. C.**
7.45	**Alum.**	**9° A. T. C. with Ethyl gas.**

DISTRIBUTOR—.018".
Breaker gap set .018". Replace if necessary.

VALVES—Intake: .006"; Exhaust: .010".
Engine hot.

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No.	Part No.	Part Name
	1	P-22499	Float needle valve, clip & seat—101 (NOT VAR.)
	2	J-4784-G	Complete gasket set
	3	P-23742	Pump by-pass jet No 63 (NOT VAR)
	4	P-22858	Pump piston and link (Includes P-21568)
	4-A	P-22857	Pump piston link and spring (complete)
	5	P-19526	Spring—pump duration
	6	P-18144	Pump inlet check valve
	7	P 21197	Power by-pass jet No 54 (NOT VAR.)
	8	P 19448	Gasket—by-pass jets
	9	P-22803	Vacuum power piston
	10	P-15478	Idle needle valve
	11	P-18710	Spring—idle needle valve
	12	P-22660	Metering jet .049" (VAR.)
	13	P 22795	Main disch jet No 36 (NOT VAR.)
	14	P-22433	Float with lever
	15	P-2885	Gasket—float needle valve seat
	16	P-22451	Gasket—air horn
	17	P-22522	Gasket—main body
	18	P-19424	Idle tube No 70 (NOT VAR.)
	19	P-21767	Plug—main discharge jet
	20	P 22851	Gasket—main discharge jet plug
	21	P-3157	Lockwasher—main body attaching screw
	22	P-18772	Lead ball
	23	P-22439	Fulcrum pin—Float lever
	24	P-21568	Spring—pump piston leather expansion
	25	P-2475	Screw—air horn attaching
	26	P-6668	Lockwasher—air horn attach screw
	27	P-22867	Screw—main body attaching
	28	P-20424	Screw—idle adj
	29	P-15831	Spring—idle adj screw
	30	P-22784	Throttle lever and stem
	31	P-22806	Throttle valve (5°) (NOT VAR.)
	32	P-20904	Screw—throttle valve attaching
	33	P-7338	Gasket—check valve plug
	34	P-19716	Plug—check valve
	35	P-17380	Washer—felt
	36	P-17060	Washer—splash—pump link
	37	P-22643	Spring—felt retainer
	38	P-20245	Washer—cup
	39	P-22046	Washer—spring retainer
	40	P-4522	Screw—choke valve attaching
	41	P-22809	Choke valve
	42	P 22791	Choke lever and stem
	43	P-22771-A	Air horn
	43 A	P 22781	(Assy) Air horn and valve
	44	P-22779	Assy —main body 1⅛" venturi (complete with No. 70 H S Bleed and pump disch tube and No. 44 idle air bleed) (VAR.)
		P-22369	H S bleeder No 70 (VAR.)
		P-19430	Pump tube wedge
		P-20232	Pump disch tube
		P-8495	Expansion plug
	45	P-22796	Assy —throttle body No 54-60 idle discharge holes No 56 spark control hole (VAR.)
		P-22853	Fast idle cam stop pin
		P-21054	Expansion plug
	46	P-22430	Pump lever
	47	P 22787	Pump rod
	48	P 9394	Washer—pump rod
	49	P-19820	Spring washer—pump lever fulcrum screw
	50	P-19433	Screw—pump lever—fulcrum
	51	P-7170	Cotter pin—pump link
	52	P 22934	Spring clip—throttle lever
	53	P-22441	Float hanger
	54	P-15458	Plug—idle discharge No 10
	55	P-20745	Screw—fulcrum fast idle cam
	56	P-20744	Washer—fast idle cam
	57	P-22792	Fast idle cam
	58	P-22794	Assembly—fast idle cam lever
		P-22801	Ball joint
	59	112 s-1	Cotter pin—fast idle cam rod
	60	P-22788	Fast idle rod
	61	P 19587	Nut—fast idle rod adj
	62	P-6406	Plug—fuel level sight
	63	P-16161	Set screw—choke stem collar
	64	P-17081	Collar—choke stem
	65	P-22523	Clip—float needle valve
	66	P-15459	Plug—vac spark and idle disch hole
	67	P-22770	Insulator—main body

NOTE: For parts marked (VAR) size must be specified when ordering.

BENDIX PRODUCTS DIVISION

SOUTH BEND **OF BENDIX AVIATION CORPORATION** **INDIANA**

STROMBERG "AAOV-1" CARBURETOR

STROMBERG NO. A-18431 (CODE NO. 4-71D) CHRYSLER SYMBOL 671875

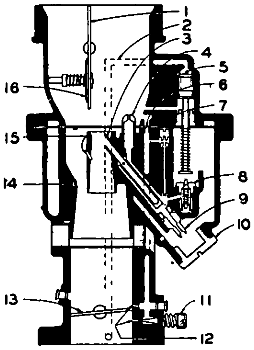
SIZE: 1⅛" DUAL D. D. 1¼" FLANGE **REPLACE WITH AAV-2 J-5494**

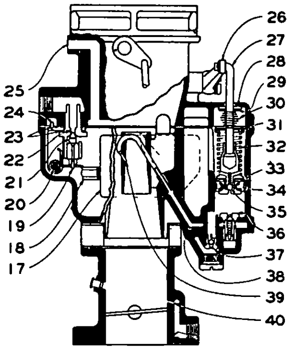
1937 CHRYSLER

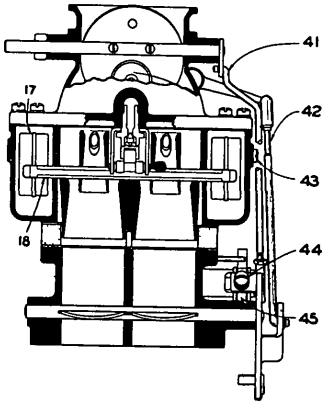
MODEL "C-14"
3¼"x4⅛"—8 cyl.

PARTS ILLUSTRATED

1 Choke Valve
2. Vacuum Channel
3. Main Discharge Jet
4. High Speed Bleeder
5. Power Vacuum Piston
6. Idle Air Bleeder
7 Idle Tube
8 Power By-Pass Jet
9. Main Metering Jet
10. Main Discharge Jet Plug
11. Idle Needle Valve
12. Idle Discharge Holes
13. Throttle Valve
14. Primary Venturi
15. Auxiliary Venturi
16. Choke Relief Valve
17. Float
18. Float Lever
19. Float Needle Valve Clip
20. Float Fulcrum Pin
21 Float Needle Valve
22. Float Needle Valve Seat
23 Float Hanger Gaskets
24 Float Hanger
25 Float Chamber Vent
26 Pump Fulcrum Arm
27 Pump Piston Link
28 Felt Dust Washer
29 Retainer Washer
30 Dust Washer Spring
31 Spring Retainer Washer
32 Pump Duration Spring
33 Pump Piston
34 Piston Expansion Spring
35 Pump Relief Valve
36 Pump By-Pass Jet
37 Pump Inlet Check Valve
38 Pump Discharge Channel
39 Pump Discharge Nozzle
40 Spark Control Hole
41 Fast Idle Rod
42 Pump Rod
43 Fuel Level Sight Plug
44 Throttle Stop Screw
45 Fast Idle Cam







Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure ⅝" below top surface of float chamber (without gasket) or level with bottom of the level sight hole. To correct fuel level, hold air horn in inverted position. Place **Tool T-24971** on gasket. Tops of floats should be level with tops of vertical guides, which will give approximate fuel level; change if necessary. Sides of floats should be tangent to guides of tool without drag.

MAIN METERING SYSTEM—Venturi **1-1/32"**; Main Discharge Jet **No. 36** P-22795 **(Tool T-24967)**; High Speed Bleeder **No. 70** P-22369; Main Metering Jet **.047"** P-22660 **(Tool T-24924)**; **(Tool T-19099)** used for removing Main jet plug; Main Metering system controls the flow of fuel up to approximately 70 to 75 M. P. H.

POWER SYSTEM—Power By-Pass Jet **No. 56** P-21657; Power jet to come into operation at **5"** to **7"** of manifold vacuum, which is approximately 70 to 75 M. P. H. **(Tool T-24733)** used for removing P-22803 vacuum power piston.

ACCELERATION — Pump Discharge Nozzles **No. 60**; Pump By-Pass Jet **No. 63** P-23742; Pump capacity **7** to **11** c.c. per 10 fast strokes, and **23** to **27** c.c. per 10 slow strokes (maximum adjustment); **(Tool T-24972)** Pump action takes place during acceleration period only.

IDLE SYSTEM—Idle Discharge holes **No. 54-60**; with throttle valve fully closed and **No. 60** drill in idle hole, edge of valve is located **.040" + — .004"** from **No. 60** drill; Idle Air Bleed **No. 40** (in main body); Idle Tube **No. 70** P-19424; **Adjustment:** Adjust to smooth running one barrel at a time, OUT to make richer and IN to make leaner; throttle at 6 M. P. H.

FAST IDLE SETTING—With fast idle screw held against first step of fast idle cam, choke valve should be open so that a ⅛" drill can be placed between the the valve and the air horn. The amount of opening can be adjusted by changing the position of the rod in the ball joint. With throttle held in wide open position, choke valve should be open **7/32"**. The amount of opening can be changed by bending extended arm of fast idle cam.

VACUUM SPARK CONTROL—With throttle fully closed and **No. 56** drill in spark hole, edge of valve is located **.031" + — .004"** from **No. 56** drill.

FLANGE GASKET—P-18165.

SPECIAL TOOLS REQUIRED—Use Chrysler complete Tool Kit **SER. 387.** T-24971 Float Gauge; T-24967 Main Discharge Jet Remover; T-24924 Main Metering Jet Wrench; T-24970 By-Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burrette Gauge; T-24968 Handle. T-24733 Power piston wrench; T-19099 Main jet plug screw driver.

MOTOR TUNE UP DATA

SPARK PLUG—.025".
Clean and adjust at regular intervals.

IGNITION TIMING—Contacts to open for No. 8 cylinder as indicated below when timing marks on impulse neutralizer are in line with pointer.

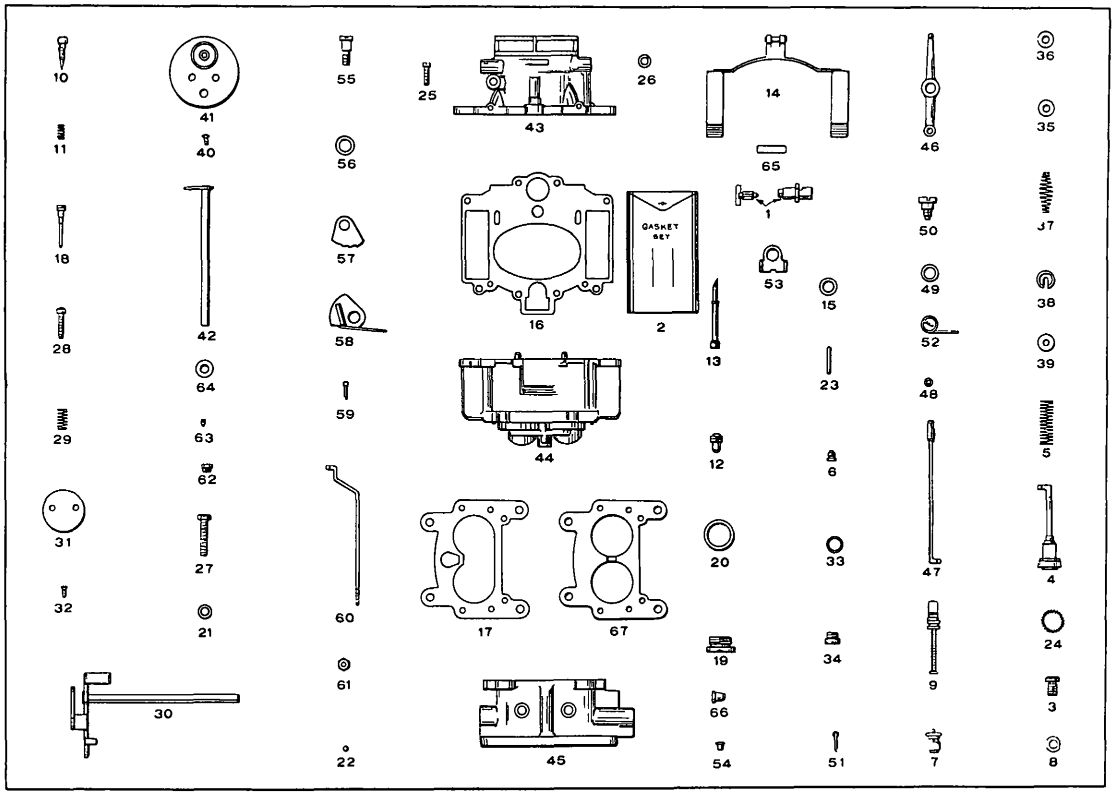
Ratio	Type head	Ignition setting.
6.7	Alum.	3° A. T. C.
7.4	Alum.	T. D. C. with regular gas.

DISTRIBUTOR—.018".
Breaker gap set .018". Replace if necessary.

VALVES—Intake: .006"; Exhaust: .010".
Engine hot.

SERVICE RECOMMENDATION — Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No.	Part No.	Part Name
	1	P-22499	Float needle valve,clip & seat— 101 (NOT VAR.)
	2	J-4784-G	Complete gasket set
	3	P-23742	Pump by-pass jet No 63 (NOT VAR.)
	4	P-23239	Pump piston and link (Includes P-21568)
	4-A	P-23238	Pump piston link and spring (Complete)
	5	P-19526	Spring—pump duration
	6	P-18144	Pump inlet check valve
	7	P-21657	Power by-pass jet No 56 (NOT VAR.)
	8	P-19448	Gasket—by-pass jets
	9	P-22803	Vacuum power piston
	10	P-15478	Idle needle valve
	11	P-18710	Spring—idle needle valve
	12	P-22660	Metering jet—.047" (VAR.)
	13	P-22795	Main disch jet No 36 (NOT VAR.)
	14	P-22433	Float with lever
	15	P-2885	Gasket—float needle valve seat
	16	P 22451	Gasket—air horn
	17	P-22522	Gasket—main body
	18	P-19424	Idle tube No 70 (NOT VAR.)
	19	P-21767	Plug—main discharge jet
	20	P-22851	Gasket—main discharge jet plug
	21	P-3157	Lockwasher—main body attaching screw
	22	P-18772	Lead Ball
	23	P-22439	Fulcrum pin—Float lever
	24	P-21568	Spring—pump piston leather expansion
	25	P 2475	Screw—air horn attaching
	26	P-6668	Lockwasher—air horn attach screw
	27	P-22867	Screw—main body attaching
	28	P-20424	Screw—idle adj
	29	P-15831	Spring—idle adj screw
	30	P 22784	Throttle lever and stem
	31	P-22806	Throttle valve (5°) (NOT VAR.)
	32	P-20904	Screw—throttle valve attach
	33	P 7338	Gasket—check valve plug
	34	P-19716	Plug—check valve
	35	P-17380	Washer—felt
	36	P-17060	Washer—splash—pump link
	37	P-22643	Spring—felt retainer
	38	P-22045	Washer—cup
	39	P-22046	Washer—spring retainer
	40	P-4522	Screw—choke valve attaching
	41	P-22809	Choke valve
	42	P-22791	Choke lever and stem
	43	P-22771-A	Air horn
	43-A	P-22781	(Assy) Air horn and valve
	44	P-22779	Assy —main body 1-1/32" venturi (complete with No 70 H S bleeder and pump disch tubes No 40 idle air bleed (VAR.)
		P-22369	H S bleeder No 70 (VAR.)
		P-19430	Pump tube wedge
		P-20232	Pump disch tube No 60 (NOT VAR.)
		P-8495	Expansion plug
	45	P 22796	Assy —throttle body No 54-60 idle disch holes No 56 spark control hole (VAR.)
		P-22853	Fast idle cam stop pin
		P-21054	Expansion plug
	46	P-22430	Pump lever
	47	P-22787	Pump rod
	48	P-9394	Washer—pump rod
	49	P-19820	Spring—washer—pump lever fulcrum screw
	50	P-19433	Fulcrum screw—Pump lever
	51	P-7170	Cotter pin—pump link
	52	P-22934	Spring clip—throttle lever
	53	P-22441	Float hanger
	54	P-15458	Plug—idle discharge No 10
	55	P-20745	Screw—fulcrum—fast idle cam
	56	P-20744	Washer—fast idle cam
	57	P-22792	Fast idle cam
	58	P-22794	Assy—fast idle cam lever
		P-22801	Ball joint
	59	112-s-1	Cotter pin—fast idle rod
	60	P-22788	Fast idle rod
	61	P-19587	Nut—fast idle rod adj
	62	P-6406	Plug—fuel level sight
	63	P-16161	Set screw—choke stem collar
	64	P-17081	Collar—choke stem
	65	P-22523	Clip—float needle valve
	66	P-15459	Plug—vac spark and idle disch hole
	67	P-22770	Insulator—main body

NOTE—For parts marked (VAR.) size must be specified when ordering.

BENDIX PRODUCTS DIVISION

SOUTH BEND OF BENDIX AVIATION CORPORATION **INDIANA**

STROMBERG "EE-22" CARBURETOR

STROMBERG NO. A 18242 (CODE NO 4 49B) CHRYSLER SYMBOL 657328

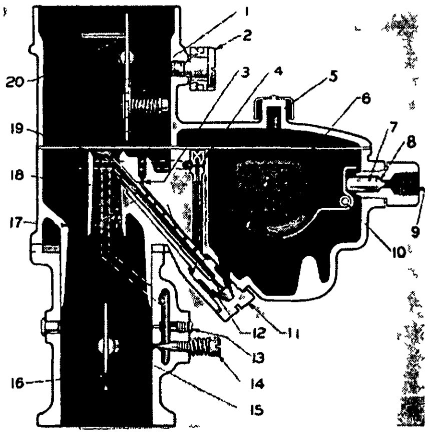
SIZE· 1¼" DUAL D. D. 4-HOLE FLANGE **REPLACE WITH AAV-2 EQPT J 5477**

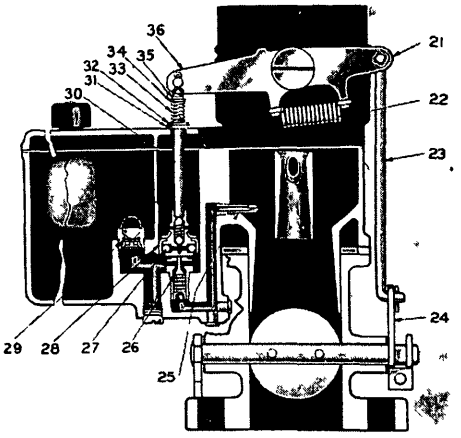
1936-37 CHRYSLER

MODELS
1936—"C-10",
C-9 EXPORT.
1937—"C-17"
3¼"x4⅞"—8 cyl.

PARTS ILLUSTRATED

1. Poppet Valve
2. Fulcrum Screw
3. High Speed Bleed
4. Idle Tube
5. Float Chamber Vent
6. Float
7. Float Needle Valve
8. Float Needle Valve Seat
9. Gasoline Inlet
10. Float Fulcrum Pin
11. Main Discharge Jet Plug
12. Main Metering Jet
13. Idle Discharge Plug
14. Idle Needle Valve
15. Idle Discharge Holes
16. Throttle Valve
17. Primary Venturi
18. Auxiliary Venturi
19. Main Discharge Jet
20. Choke Valve
21. Pump Lever Arm
22. Pump Arm Connecting Spring
23. Pump Rod
24. Pump Lever
25. Pump Discharge Nozzle
26. Power By Pass Jet
27. Pump Piston Spring
28. Pump Piston
29. Check Valve
30. Pump Piston Link
31. Felt Washer
32. Splash Washer
33. Spring
34. Retainer Washer
35. Cotter Pin
36. Pump Piston Arm





Note—Specifications below are for latest production previous major changes listed on Parts Page.

FUEL LEVEL—Measure **5/8"** below top surface of float chamber (without gasket) at 3 lbs pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level)

MAIN METERING SYSTEM—Venturi **1-3/32";** Main Discharge Jet **No. 28-36** P-19840 **(Tool T-24967);** High Speed Bleeder **No. 65** (in body), Main Metering Jet **.053"** P-17004 **(Tool T-23844); (Tool T-19099)** used to remove main jet plug, Main Metering System controls the flow of fuel up to approximately 65 to 70 M P H

POWER SYSTEM—Combination Power and Pump By Pass Jet **No. 53** P-19481 Pump piston to rest on seat of by-pass jet (less over-travel) with throttle valve opened **21/64" + — 1/64"** (measure with shank end of **21/64"** drill) adjust by bending pump rod The Power Jet is brought into action at approximately 65 to 70 M P H

ACCELERATION—Pump Discharge Nozzles **No. 71** P 18852 Pump capacity **16** to **20** c c per 10 fast strokes and **22** to **26** c c per 10 slow strokes (Maximum setting) **(Tool T-24972).** Pump action takes place during acceleration period only

IDLE SYSTEM—Idle Discharge Holes **No. 56-56;** with throttle valve fully closed and **No. 56** drill in idle hole, edge of valve is located **.040" + — .004"** from **No. 56** drill, Idle Air Bleed **No. 46** P-15477, Idle Tube **No. 72** P-18264 **Adjustment.** Adjust to smooth running, one barrel at a time, OUT to make richer and IN to make leaner Throttle at 7 to 8 M P H

VACUUM SPARK CONTROL—With throttle fully closed and **No. 56** drill in spark hole, edge of valve is located **.031"** from **No. 56** drill

FLANGE GASKET—P-18165

SPECIAL TOOLS REQUIRED—Use Chrysler complete Tool Kit **SER. 387;** T 24733 Float Adjuster T-24967 Main Discharge Jet Remover, T-23844 Main Metering Jet Wrench, T-24970 By-Pass Jet and Check Valve Tester, T-24972 Pump Capacity Burrette Gauge, T-24968 Handle, T 19099 Main Jet Plug Screw Driver

MOTOR TUNE-UP DATA

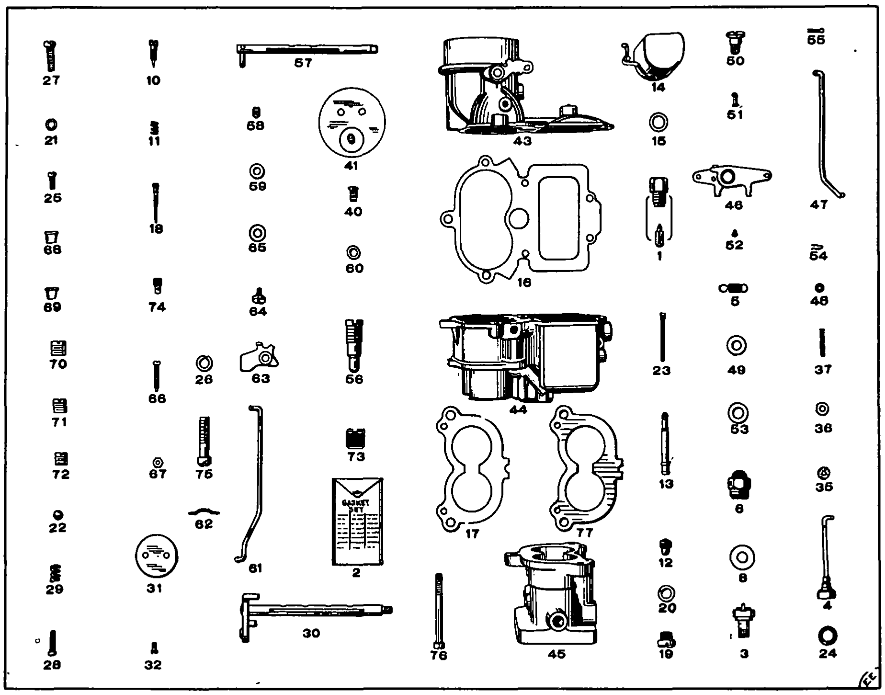
SPARK PLUGS—.025".
Clean and adjust at regular intervals.

DISTRIBUTOR—.017".
Breaker gap set .017".
Replace if necessary.

VALVES—Intake: .006".
Exhaust: .010". **Engine hot.**

IGNITION TIMING—Breaker contacts to open 5° A. T. D. C. when corresponding mark on impulse neutralizer is in line with pointer on timing chain case.

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key N .	Part No.	Part Name
	1	P-20888	Float Needle Valve & Seat—.113"......(NOT VAR.)
	2	J-4363-G	Complete Gasket Set
	3	P-19481	Power By-Pass Jet—No. 53 (NOT VAR.)
	4	P-17073	Pump Piston & Stem........(Includes P-16960 Spring)
	5	P-17042	Spring—Pump Duration
	6	P-16990	Check Valve—Pump Inlet
	8	P-6855	Gasket—By-Pass Jet
	10	P-15478	Idle Needle Valve
	11	P-15481	Spring—Idle Needle Valve
	12	P-17004	Metering Jet—.053" (VAR.)
	13	P-19840	Main Disch. Jet—No. 28-36 (NOT VAR.)
	14	P-17926	Float with Lever
	15	P-10666	Gasket—Float Needle Valve Seat
	16	P-17923	Gasket—Air Horn
	17	P-19390	Gasket—Main Body
	18	P-18264	Idle Tube—No. 72 (NOT VAR.)
	19	P-18130	Plug—Main Disch. Jet
	20	P-60308	Gasket—Main Disch. Jet Plug
	21	P-3157	Lockwasher—Main Body Attach. Screw
	22	P-18772	Lead Ball
	23	P-17939	Screw—Fulcrum—Float Lever
	24	P-16960	Spring—Pump Piston Leather Expansion
	25	P-46	Screw—Air Horn
	26	P-6668	Lockwasher—Air Horn—Screw
	27	P-15554	Screw—Main Body
	28	P-17890	Screw—Throttle Stop
	29	P-15831	Spring—Throttle Stop Screw
	30	P-21725	Throttle Lever and Stem
	31	P-19850	Throttle Valve (5°) (VAR.)
	32	P-16716	Screw—Throttle Valve Attach.
	35	P-17380	Washer—Felt
	36	P-17060	Washer—Splash—Pump Link
	37	P-17753	Spring—Packing Return
	40	P-4522	Screw—Choke Valve
	41	P-19770	Choke Valve
	43	P-21729	Assy.—Air Horn
		P-17995	Fast Idle Adj. Lever
		P-17996	Fast Idle Adj. Lever Bushing
		P-17828	Float Chamber Vent Cap
		P-18351	Float Chamber Vent Screen
		P-9802	Float Chamber Vent Cap Screw

Bin Location	Key No.	Part No.	Part Name
	43-A	P-21728	Assy.—Air Horn and Valve
	44	P-21744	Assy.—Main Body—1-3/32" Venturi No. 65 H. S. Bleeder (VAR.)
	45	P-21727	Assy.—Throttle Body No. 56-56 Idle Disch. Holes No. 56 Spark Hole (VAR.)
	46	P-16976	Pump Lever
	47	P-21730	Pump Rod
	48	P-9394	Washer—Pump Rod
	49	P-17133	Washer—Pump Lever Fulcrum Screw
	50	P-16973	Screw—Pump Lever Fulcrum
	51	P-17027	Screw—Pump Lever Fulcrum Screw Lock
	52	P-6970	Screw—Pump Lever Stop
	53	P-17009	Washer—Pump Lever Fulcrum Screw
	54	P-19374	Cotter Pin—Pump Link
	55	P-7170	Cotter Pin—Pump Rod
	56	P-18852	Nozzle—Pump Disch.—No. 71 (VAR.)
	57	P-21748	Choke Stem and Pin
		P-19767	Choke Stem Pin
	58	P-16161	Set Screw—Choke Stem Collar
	59	P-17081	Collar—Choke Stem
	60	P-12400	Washer—Choke Stem
	61	P-21731	Rod—Fast Idle
	62	P-19815	Washer—Fast Idle Rod—Spring
	63	P-17997	Cam Lever—Fast Idle
	64	P-17968	Screw—Fast Idle Cam Lever Fulcrum
	65	P-17999	Washer—Fast Idle Cam Lever Fulcrum Screw
	66	P-17998	Screw—Fast Idle
	67	P-17812	Nut—Fast Idle Screw Lock
	68	P-15459	Plug—Idle Disch. Hole—¼"
	69	P-15457	Plug—Drive—Idle Air Bleed Channel
	70	P-6406	Plug—Pump Disch. Channel—5/16-24
	71	P-6202	Plug—Pump Disch. Channel—¼-32
	72	P-15458	Plug—Idle Disch. Hole
	73	P-3292	Plug—Throttle Body—⅛" Pipe
	74	P-15477	Idle Air Bleeder—No. 46 (VAR.)
	75	P-19395	Screw—Main Body
	76	P-19396	Screw—Air Horn
	77	P-19391	Insulator Gasket—Main Body

NOTE—F r parts marked (VAR.) size must be specified when rdering.

BENDIX PRODUCTS DIVISION

SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

STROMBERG "EE-22" CARBURETOR

STROMBERG NO. A-18232 (CODE NO. 4-50) CHRYSLER SYMBOL 655105

SIZE: 1¼" DUAL D. D. 4-HOLE FLANGE

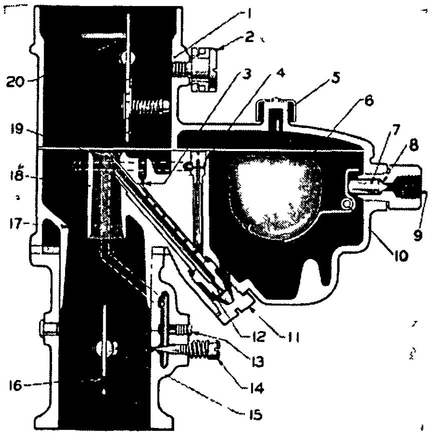
REPLACE WITH AAV-2 EQPT. J-5495

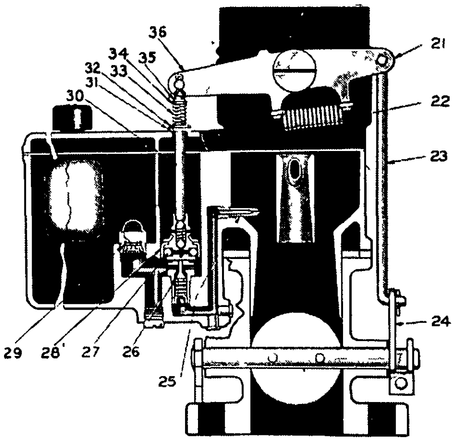
1936-37
CHRYSLER

1936 "C-8 EXPORT"
1937 "C-14"
3¼"x4⅛"—8 cyl.

PARTS ILLUSTRATED

1. Poppet Valve
2. Fulcrum Screw
3. High Speed Bleed
4. Idle Tube
5. Float Chamber Vent
6. Float
7. Float Needle Valve
8. Float Needle Valve Seat
9. Gasoline Inlet
10. Float Fulcrum Pin
11. Main Discharge Jet Plug
12. Main Metering Jet
13. Idle Discharge Plug
14. Idle Needle Valve
15. Idle Discharge Holes
16. Throttle Valve
17. Primary Venturi
18. Auxiliary Venturi
19. Main Discharge Jet
20. Choke Valve
21. Pump Lever Arm
22. Pump Arm Connecting Spring
23. Pump Rod
24. Pump Lever
25. Pump Discharge Nozzle
26. Power By-Pass Jet
27. Pump Piston Spring
28. Pump Piston
29. Check Valve
30. Pump Piston Link
31. Felt Washer
32. Splash Washer
33. Spring
34. Retainer Washer
35. Cotter Pin
36. Pump Piston Arm





Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **5/8"** below top surface of float chamber (without gasket) at 3 lbs. pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level.)

MAIN METERING SYSTEM—Venturi **1-1/32";** Main Discharge Jet **No. 28-36** P-19840 **(Tool T-24967);** High Speed Bleeder **No. 65** (in body); Main Metering Jet **.050"** P-17004 **(Tool T-23844); (Tool T-19099)** used to remove main jet plug; Main Metering System controls the flow of fuel up to approximately 65 to 70 M. P. H.

POWER SYSTEM—Combination Power and Pump By-Pass Jet **No. 58** P-20822 Pump piston to rest on seat of by-pass jet (less over-travel) with throttle valve opened **21/64"** + — **1/64"** (measure with shank end of **21/64"** drill) adjust by bending pump rod. The Power Jet is brought into action at approximately 65 to 70 M. P. H.

ACCELERATION — Pump Discharge Nozzles **No. 71** P-18852; Pump capacity **16** to **20** c.c. per 10 fast strokes and **22** to **26** c.c. per 10 slow strokes. (Maximum setting.) **(Tool T-24972)** Pump action takes place during acceleration period only.

IDLE SYSTEM—Idle Discharge Holes **No. 56-56;** with throttle valve fully closed and **No. 56** drill in idle hole, edge of valve is located **.040"** + — **.004"** from **No. 56** drill; Idle Air Bleed **No. 42** P-15477; Idle Tube **No. 72** P-18264. **Adjustment:** Adjust to smooth running one barrel at a time, OUT to make richer and IN to make leaner. Throttle at 7 to 8 M. P. H.

VACUUM SPARK CONTROL—With throttle fully closed and **No. 56** drill in spark hole, edge of valve is located **.031"** from **No. 56** drill.

FLANGE GASKET—P-18165.

SPECIAL TOOLS REQUIRED—Use Chrysler complete Tool Kit **SER. 387;** T-24733 Float Adjuster; T-24967 Main Discharge Jet Remover; T-23844 Main Metering Jet Wrench; T-24970 By-Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burrette Gauge; T-24968 Handle; T-19099 Main Jet Plug Screw Driver.

MOTOR TUNE-UP DATA

SPARK PLUGS—.025".
Clean and adjust at regular intervals.

DISTRIBUTOR—.017".
Breaker gap set .017".
Replace if necessary.

VALVES—Intake: .006".
Exhaust: .010". Engine hot

IGNITION TIMING—Breaker contacts to open 3° A. T. D. C. when corresponding mark on impulse neutralizer is in line with pointer on timing chain case.

SERVICE RECOMMENDATION — Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

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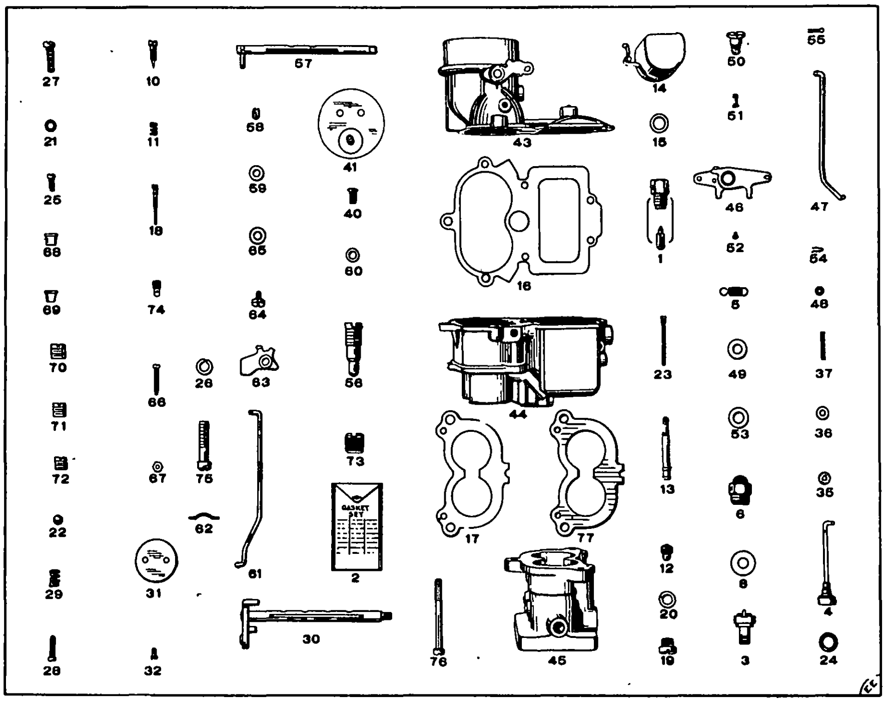


SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No.	Part No.	Part Name
	1	P-20888	Float Needle Valve & Seat—.113" (NOT VAR.)
	2	J-4363-G	Complete Gasket Set
	3	P-20822	Power By-Pass Jet No. 58 (NOT VAR.)
	4	P-17073	Pump Piston & Stem (Includes P-16960 Spring)
	5	P-21735	Spring—Pump Duration
	6	P-16990	Check Valve—Pump Inlet
	8	P-6855	Gasket—By-Pass Jet
	10	P-15478	Idle Needle Valve
	11	P-15481	Spring—Idle Needle Valve
	12	P-17004	Metering Jet—.050" (VAR.)
	13	P-19840	Main Disch. Jet No. 28-36 (NOT VAR.)
	14	P-17926	Float with Lever
	15	P-10666	Gasket—Float N. V. Seat & M. Disch. Jet Plug
	16	P-17923	Gasket—Air Horn
	17	P-19390	Gasket—Main Body
	18	P-18264	Idle Tube No. 72 (NOT VAR.)
	19	P-18130	Plug—Main Disch. Jet
	21	P-3157	Lockwasher—Main Body Attach. Screw
	22	P-18772	Lead Ball
	23	P-17939	Screw—Fulcrum—Float Lever
	24	P-16960	Spring—Pump Piston Leather Expansion
	25	P-46	Screw—Air Horn
	26	P-6668	Lockwasher—Air Horn Screw
	27	P-15554	Screw—Main Body
	28	P-17890	Screw—Throttle Stop
	29	P-15831	Spring—Throttle Stop Screw
	30	P-21725	Throttle Lever and Stem
	31	P-19850	Throttle Valve (5°) (VAR.)
	32	P-16716	Screw—Throttle Valve
	35	P-17380	Washer—Felt
	36	P-17060	Washer—Splash—Pump Link
	37	P-17753	Spring—Packing Retainer
	40	P-4522	Screw—Choke Valve
	41	P-19770	Choke Valve
	43	P-21729	Air Horn
		P-17995	Fast Idle Adj. Lever
		P-17996	Fast Idle Adj. Lever Bushing
		P-17828	Float Chamber Vent Cap
		P-18351	Float Chamber Vent Screen
		P-9802	Float Chamber Vent Cap Screw

Bin Location	Key No.	Part No.	Part Name
	43-A	P-21728	Assy.—Air Horn & Valve
	44	P-21744	Main Body—1-1/32" Venturi No. 65 High Speed Bleeder (VAR.)
	45	P-21727	Throttle Body No. 56-56 Idle Disch. Holes—No. 56 Spark Hole (VAR.)
	46	P-16976	Pump Lever
	47	P-21730	Pump Rod
	48	P-9394	Washer—Pump Rod
	49	P-17133	Washer—Pump Lever Fulcrum Screw
	50	P-16973	Screw—Pump Lever Fulcrum
	51	P-17027	Screw—Pump Lever Fulcrum Lock
	52	P-6970	Screw—Pump Lever Stop
	53	P-17009	Washer—Pump Lever Fulcrum Screw
	54	P-19374	Cotter Pin—Pump Link
	55	P-7170	Cotter Pin—Pump Rod
	56	P-18852	Nozzle—Pump Disch. No. 71 (VAR.)
	57	P-21748	Choke Stem & Pin
		P-19767	Choke Stem Pin
	58	P-16161	Set Screw—Choke Stem Collar
	59	P-17081	Collar—Choke Stem
	60	P-12400	Washer—Choke Stem
	61	P-21731	Rod—Fast Idle
	62	P-19815	Washer—Fast Idle Rod Spring
	63	P-17997	Cam Lever—Fast Idle
	64	P-17968	Screw—Fast Idle Cam Lever Fulcrum
	65	P-17999	Washer—Fast Idle Cam Lever Fulcrum Screw
	66	P-17998	Screw—Fast Idle
	67	P-17812	Nut—Fast Idle Screw Lock
	68	P-15459	Plug—Idle Discharge Hole—1/4"
	69	P-15457	Plug—Drive—Idle Air Bleed Channel
	70	P-6406	Plug—Pump Disch. Channel....5/16-24
	71	P-6202	Plug—Pump Disch. Channel—1/4-32
	72	P-6387	Plug—Idle Disch. Hole—10-32
	73	P-3292	Plug—Throttle Body—1/8" Pipe
	74	P-15477	Idle Air Bleeder—No. 42 (VAR.)
	75	P-19395	Screw—Main Body
	76	P-19396	Screw—Air Horn
	77	P-19391	Insulator Gasket—Main Body

NOTE—For parts marked (VAR.) size must be specified when ordering.

BENDIX PRODUCTS DIVISION
SOUTH BEND **OF BENDIX AVIATION CORPORATION** **INDIANA**

STROMBERG "EE-22" CARBURETOR

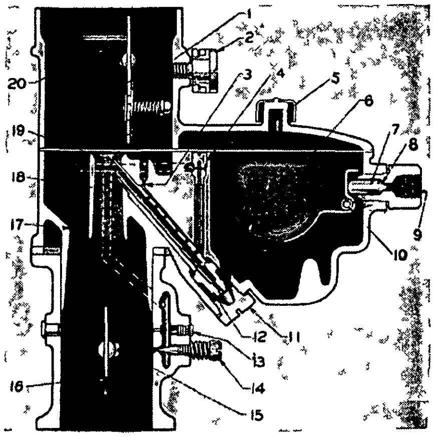
STROMBERG NO. A 18262 (CODE NO. 4-51A) CHRYSLER SYMBOL 658652

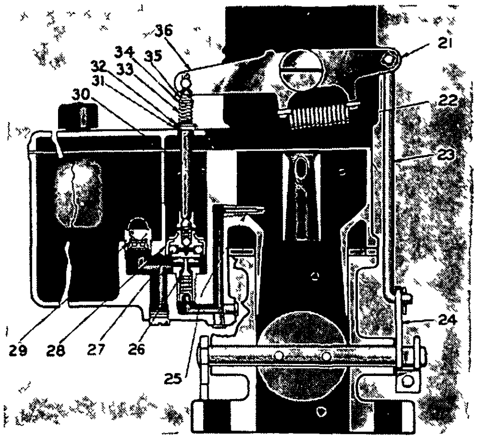
SIZE: 1¼" DUAL D. D 4 HOLE FLANGE **REPLACE WITH A AV-2 EQPT. J-5477**

1936
CHRYSLER
MODEL
"C-11"
3¼"x4⅞"—8 cyl.

PARTS ILLUSTRATED

1 Poppet Valve
2 Fulcrum Screw
3 High Speed Bleed
4 Idle Tube
5 Float Chamber Vent
6 Float
7 Float Needle Valve
8 Float Needle Valve Seat
9 Gasoline Inlet
10 Float Fulcrum Pin
11 Main Discharge Jet Plug
12 Main Metering Jet
13 Idle Discharge Plug
14 Idle Needle Valve
15 Idle Discharge Holes
16 Throttl Valve
17 Primary Venturi
18 Auxiliary Venturi
19 Main Discharge Jet
20 Choke Valve
21 Pump Lever Arm
22 Pump Arm Connecting Spring
23 Pump Rod
24 Pump Lever
25 Pump Discharge Nozzle
26 Power By Pass Jet
27 Pump Piston Spring
28 Pump Piston
29 Check Valve
30 Pump Piston Link
31 Felt Washer
32 Splash Washer
33 Spring
34 Retainer Washer
35 Cotter Pin
36 Pump Piston Arm





Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **5/8"** below top surface of float chamber (without gasket) at 3 lbs pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level)

MAIN METERING SYSTEM—Venturi **1-3/32"**; Main Discharge Jet **No. 28-36** P-19840 **(Tool T-24967)**; High Speed Bleeder **No. 65** (in body,) Main Metering Jet **.051"** P-17004 **(Tool T-23844)**; **(Tool T-19099)** used to remove main jet plug, Main Metering System controls the flow of fuel up to approximately 65 to 70 M P H

POWER SYSTEM—Combination Power and Pump By-Pass Jet **No. 53** P-19481 Pump piston to rest on seat of by-pass jet (less over-travel) with throttle valve opened **21/64" + — 1/64"** (measure with shank end of **21/64"** drill) adjust by bending pump rod The Power Jet is brought into action at approximately 65 to 70 M P H

ACCELERATION — Pump Discharge Nozzles **No. 71** P 18852, Pump capacity **16** to **20** c c per 10 fast strokes and **22** to **26** c c per 10 slow strokes (Maximum setting) **(Tool T-24972)**. Pump action takes place during acceleration period only

IDLE SYSTEM—Idle Discharge Holes **No. 56-56**; with throttle valve fully closed and **No. 56** drill in idle hole, edge of valve is located **.040" + — .004"** from **No. 56** drill, Idle Air Bleed **No. 46** P-15477, Idle Tube **No. 72** P-18264 **Adjustment:** Adjust to smooth running one barrel at a time, OUT to make richer and IN to make leaner Throttle at 7 to 8 M P H.

VACUUM SPARK CONTROL—With throttle fully closed and **No. 56** drill in spark hole, edge of valve is located **.031"** from **No. 56** drill

FLANGE GASKET—P-18165

SPECIAL TOOLS REQUIRED—Use Chrysler complete Tool Kit **SER. 387**; T-24733 Float Adjuster, T-24967 Main Discharge Jet Remover, T-23844 Main Metering Jet Wrench, T-24970 By-Pass Jet and Check Valve Tester, T-24972 Pump Capacity Burrette Gauge T 24968 Handle, T-19099 Main Jet Plug Screw Driver

MOTOR TUNE-UP DATA

SPARK PLUGS—.025".
Clean and adjust at regular intervals.

DISTRIBUTOR—.017".
Breaker gap set .017".
Replace if necessary.

VALVES—Intake: .006".
Exhaust: .008". **Engine hot.**

IGNITION TIMING—Breaker contacts to open 5° A. T. D. C. when corresponding mark on impulse neutralizer is in line with pointer on timing chain case.

SERVICE RECOMMENDATION — Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

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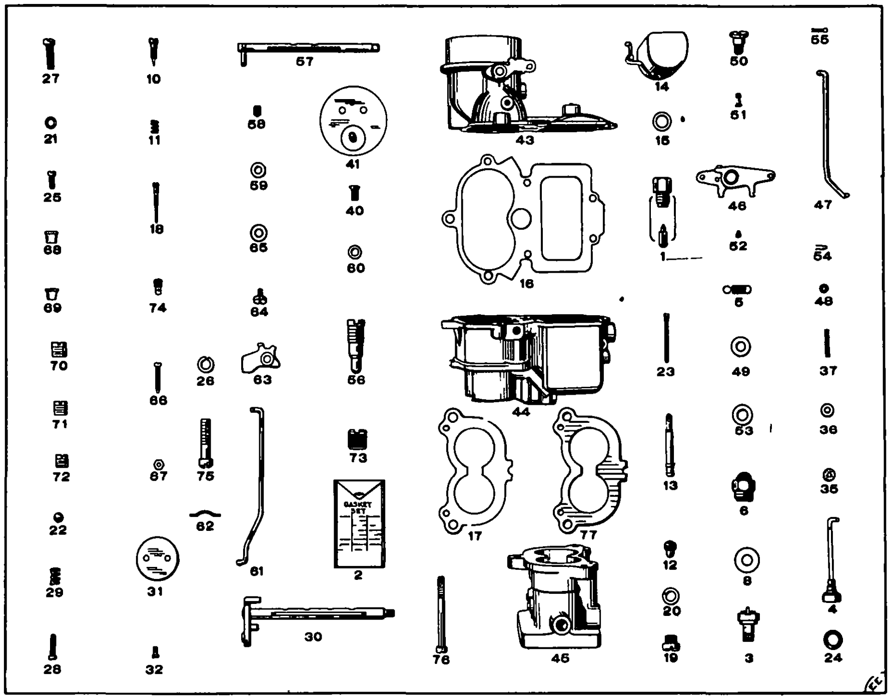
STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No.	Part No.	Part Name	
	1	P-20888	Float Needle Valve & Seat—113″	(NOT VAR.)
	2	J-4363-G	Complete Gasket Set	
	3	P-19481	Power By-Pass Jet No 53	(NOT VAR.)
	4	P-17073	Pump Piston & Stem	(Includes P-16960 Spring)
	5	P-17042	Spring—Pump Duration	
	6	P-16990	Check Valve—Pump Inlet	
	8	P-6855	Gasket—By Pass Jet	
	10	P-17402	Idle Needle Valve	
	11	P-15481	Spring—Idle Needle Valve	
	12	P-17004	Metering Jet .051″	(VAR)
	13	P-19840	Main Disch Jet—No 28-36	(NOT VAR.)
	14	P-17926	Float with Lever	
	15	P-10666	Gasket—Float Needle Valve Seat	
	16	P-17923	Gasket—Air Horn	
	17	P-19390	Gasket—Main Body	
	18	P-18264	Idle Tube—No 72	(NOT VAR.)
	19	P-18130	Plug—Main Disch Jet	
	20	P-60308	Gasket—Main Disch Jet Plug	
	21	P-3157	Lockwasher—Main Body Screw	
	22	P-18772	Lead Ball	
	23	P 17939	Screw—Fulcrum—Float Lever	
	24	P 16960	Spring—Pump Piston Leather Expansion	
	25	P 46	Screw—Air Horn	
	26	P-6668	Lockwasher—Air Horn—Screw	
	27	P-15554	Screw—Main Body	
	28	P-17890	Screw—Throttle Stop	
	29	P 15831	Spring—Throttle Stop Screw	
	30	P 21725	Throttle Lever and Stem	
	31	P-19850	Throttle Valve (5°)	(VAR.)
	32	P-16716	Screw—Throttle Valve	
	35	P 17380	Washer—Felt	
	36	P 17060	Washer—Splash—Pump Link	
	37	P 17753	Spring—Packing Retainer	
	40	P-4522	Screw—Choke Valve	
	41	P 19770	Choke Valve	
	43	P 21729	Assy —Air Horn	
		P 17995	Fast Idle Adj Lever	
		P 17996	Fast Idle Adj Lever Bushing	
		P 17828	Float Chamber Vent Cap	
		P 18351	Float Chamber Vent Screen	
		P 9802	Float Chamber Vent Cap Screw	

Bin Location	Key No.	Part No.	Part Name	
	43-A	P-21728	Assy —Air Horn and Valve	
	44	P-21744	Assy —Main Body—1-3/32″ Venturi N . 65 H S Bleeder	(VAR.)
	45	P-21727	Assy —Throttle Body No. 56-56 Idle Disch Holes No. 56 Spark Hole	(VAR.)
	46	P-16976	Pump Lever	
	47	P-21730	Pump Rod	
	48	P-9394	Washer—Pump Rod	
	49	P-17133	Washer—Pump Lever Fulcrum Screw	
	50	P-16973	Screw—Pump Lever Fulcrum	
	51	P 17027	Screw—Pump Lever Fulcrum Screw Lock	
	52	P-6970	Screw—Pump Lever Stop	
	53	P-17009	Washer—Pump Lever Fulcrum Screw	
	54	P-19374	Cotter Pin—Pump Link	
	55	P-7170	Cotter Pin—Pump Rod	
	56	P-18852	Nozzle—Pump Disch —No. 71	(VAR.)
	57	P-21748	Choke Stem & Pin	
		P-19767	Choke Stem Pin	
	58	P-16161	Set Screw—Choke Stem Collar	
	59	P-17081	Collar—Choke Stem	
	60	P 12400	Washer—Choke Stem	
	61	P-21731	Rod—Fast Idle	
	62	P 19815	Washer—Fast Idle Rod Spring	
	63	P-17997	Cam Lever—Fast Idle	
	64	P-17968	Screw—Fast Idle Cam Lever Fulcrum	
	65	P-17999	Washer—Fast Idle Cam Lever Fulcrum Screw	
	66	P-17998	Screw—Fast Idle	
	67	P-17812	Nut—Fast Idle Screw Lock	
	68	P 15459	Plug—Idle Disch Hole—¼″	
	69	P-15457	Plug—Drive—Idle Air Bleed Channel	
	70	P-6406	Plug—Pump Disch Channel—No 5/16-24	
	71	P-6202	Plug—Pump Disch Channel—No 1/4-32	
	72	P-6387	Plug—Idle Disch Hole—No 10 32	
	73	P-3292	Plug—Thro Body—⅛″ Pipe	
	74	P 15477	Idle Air Bleeder—No. 46	(VAR.)
	75	P 19395	Screw—Main Body	
	76	P 19396	Screw—Air Horn	
	77	P-19391	Insulator Gasket—Main Body	

NOTE—For parts marked (VAR.) size must be specified when ordering.

BENDIX PRODUCTS DIVISION
SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

STROMBERG "EXV-3" CARBURETOR

STROMBERG NO. A-18263 (CODE NO. 4-53) CHRYSLER SYMBOL 655465

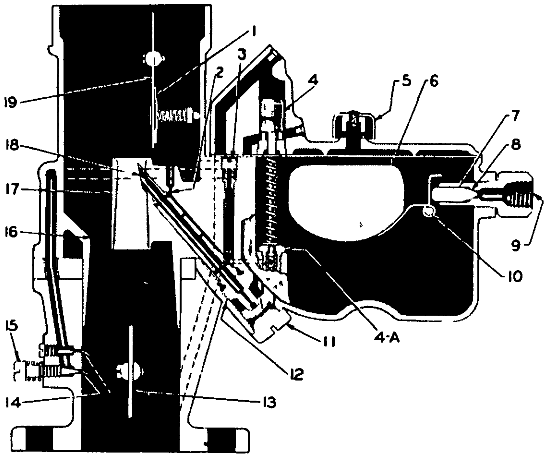
SIZE: 1½" S. A. E. 2-15/16" FLANGE CENTERS

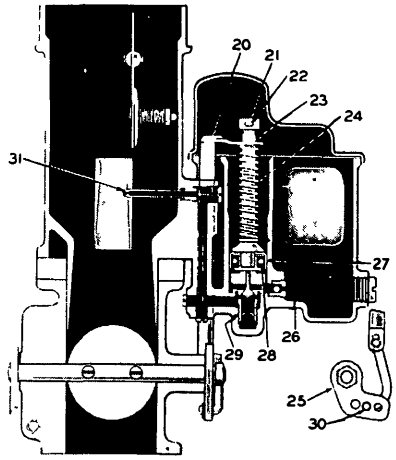
1936
CHRYSLER

MODEL
"C-9"
3¼"x4⅞"—8 cyl.

PARTS ILLUSTRATED

1. Poppet Valve
2. High Speed Bleeder
3. Idle Tube
4. Vacuum Power Piston
4a. Power By-Pass Jet
5. Float Chamber Vent
6. Float
7. Float Needle Valve
8. Float Needle Valve Seat
9. Gasoline Inlet
10. Float Fulcrum Pin
11. Main Discharge Jet Plug
12. Main Metering Jet
13. Throttle Valve
14. Idle Discharge Holes
15. Idle Needle Valve
16. Primary Venturi
17. Auxiliary Venturi
18. Main Discharge Jet
19. Choke Valve
20. Pump Rod
21. Pump Adjustment Nut
22. Cotter Pin
23. Piston Connecting Rod
24. Pump Duration Spring
25. Pump Lever
26. Pump Inlet Check Valve
27. Pump Piston
28. Pump Piston Expansion Spring
29. Accel Pump By-Pass Jet
30. Pump Lever Link
31. Pump Discharge Nozzle





Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **5/8"** below top surface of float chamber (without gasket) at 3 lbs. pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level).

MAIN METERING SYSTEM—Venturi **1-5/16"**; Main Discharge Jet **No. 28** P-20877 **(Tool T-24967)**; High Speed Bleeder **No. 70** (in body); Main Metering Jet **.065"** P-17004 **(Tool T-23844)**; **(Tool T-19099)** used to remove main jet plug; Main Metering System controls the flow of fuel up to approximately 65 to 70 M. P. H.

POWER SYSTEM—Power By-Pass Jet **No. 54** P-21197; Power jet to come into operation at **4"** to **6"** of manifold vacuum, which is approximately 65 to 70 M. P. H. **(Tool T-24733)** used to remove P-21074 vacuum power piston.

ACCELERATION—Pump Discharge Nozzles **No. 64** P-17020; Pump By-Pass Jet **4 No. 56** P-21076; Pump capacity **11** to **15** c.c. per 10 fast strokes, and **15** to **19** c.c. per 10 slow strokes (Middle adjustment); **(Tool T-24972)** Pump adjustment nut to be **Flush** with top of stem. Pump action takes place during acceleration period only.

IDLE SYSTEM—Idle Discharge holes **No. 56-58**; with throttle valve fully closed and **No. 58** drill in idle hole, edge of valve is located **.012"** + — **.004"** from **No. 58** drill; Idle Air Bleed **No. 56** P-15477; Idle Tube **No. 70** P-19424. **Adjustment:** Adjust to smooth running, OUT to make richer and IN to make leaner; throttle at 7 to 8 M. P. H.

VACUUM SPARK CONTROL—With throttle fully closed and **No. 50** drill in spark hole, edge of valve is located **Flush** with **No. 50** drill.

FLANGE GASKET—P-4753.

SPECIAL TOOLS REQUIRED—Use Chrysler complete Tool Kit **SER. 387**; T-24733 Float Adjuster and Power Piston Wrench; T-24967 Main Discharge Jet Remover; T-23844 Main Metering Jet Wrench; T-24970 By-Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burrette Gauge; T-24968 Handle; T-19099 Main Jet Plug Screw Driver.

MOTOR TUNE-UP DATA

SPARK PLUG—.025".
Clean and adjust at regular intervals.

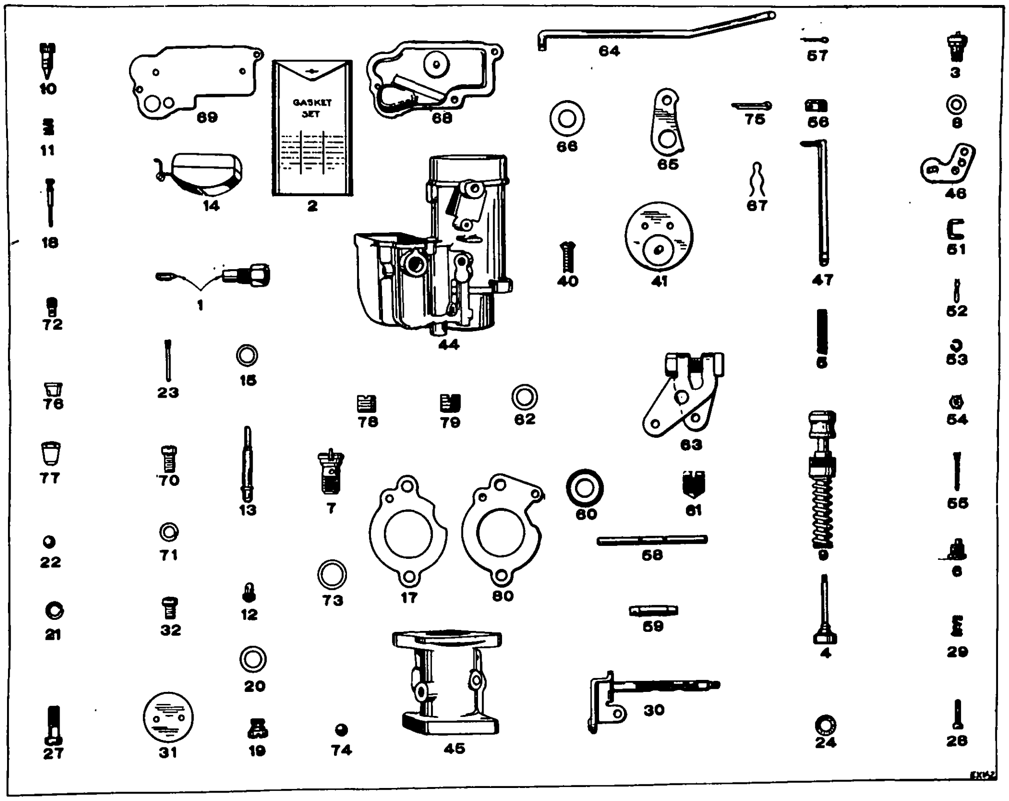
DISTRIBUTOR—.015" to .017".
Breaker gap set .015" to .017".
Replace if necessary.

VALVES—Intake: .006".
Exhaust: .008". **Engine hot.**

IGNITION TIMING—Breaker contacts to open at T. D. C. when zero mark on impulse neutralizer is in line with pointer on timing chain case.

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No.	Part No.	Part Name
	1	**P-20887**	Float Needle Valve & Seat—.101" ....**(NOT VAR.)**
	2	**J-4544-G**	Complete Gasket Set
	3	**P-21076**	Pump—By-Pass Jet 4 No. 56 ....**(NOT VAR).**
	4	**P-19167**	Pump Piston & Stem ....**(Includes P-16960 Spring)**
	5	**P-18215**	Spring—Pump Duration
	6	**P-18144**	Check Valve—Pump Inlet
	7	**P-21197**	Power—By-Pass Jet
	8	**P-6855**	Gasket—Pump By-Pass Jet
	9	**P-21074**	Vacuum Power Piston
	10	**P-17402**	Idle Needle Valve
	11	**P-15481**	Spring—Idle Needle Valve
	12	**P-17004**	Metering Jet **.065"** ....**(VAR.)**
	13	**P-20877**	Main Disch. Jet No. 28..........................**(NOT VAR.)**
	14	**P-21663**	Float with Lever
	15	**P-10666**	Gasket—Float Needle Valve Seat
	17	**P-21064**	Gasket—Main Body
	18	**P-19424**	Idle Tube No. 70 ....**(NOT VAR.)**
	19	**P-18130**	Plug—Main Disch. Jet
	20	**P-60308**	Gasket—Main Disch. Jet Plug
	21	**P-8838**	Lockwasher—Main Body Attach. Screw
	22	**P-18772**	Lead Ball 1/16"
	23	**P-18125**	Screw—Fulcrum—Float Lever
	24	**P-16960**	Spring—Pump Piston Leather Expansion
	27	**P-19339**	Screw—Main Body Attach.
	28	**P-15456**	Screw—Throttle Stop
	29	**P-15831**	Spring—Throttle Stop Screw
	30	**P-21168**	Throttle Lever and Stem
	31	**P-5436**	Throttle Valve **(20°)** ....**(VAR.)**
	32	**P-16716**	Screw—Throttle Valve Attach.
	40	**P-4522**	Screw—Choke Valve Attach.
	41	**P-20664**	Choke Valve
	44	**P-21073**	Main Body—**1-5/16"** Venturi **No. 70** H. S. Bleeder ....**(VAR.)**
	45	**P-21062**	Throttle Body **No. 56-58** Idle Disch. Holes **No. 50** Spark Control Hole ....**(VAR.)**
		P-19370	Throttle Lever Stop Pin

NOTE—For parts marked (VAR.) size must be specified when ordering.

Bin Location	Key No.	Part No.	Part Name
	46	**P-20628**	Pump Lever
	47	**P-19165**	Pump Rod
	51	**P-20203**	Pump Link
	52	**P-19374**	Cotter Pin—Pump Link
	53	**P-1791**	Lockwasher—Pump Lever Nut
	54	**P-2290**	Nut—Pump Lever Attach.
	55	**P-17020**	Nozzle—Pump Disch. **No. 64** ....**(VAR.)**
	56	**P-18135**	Nut—Pump Rod
	57	**P-4**	Cotter Pin—Pump Rod Nut
	58	**P-20655**	Stem—Choke
	59	**P-3881**	Pin—Choke Stem Separator
	60	**P-17081**	Collar—Choke Stem
	61	**P-16161**	Screw—Choke Stem Collar Set
	62	**P-4735**	Washer—Choke Stem
	63	**P-20657**	Choke Lever
		P-20658●	Choke Lever
		P-18300	Choke Lever Clamp Screw
		P-18299	Choke Lever Clamp Screw Nut
	64	**P-19367**	Rod—Fast Idle
	65	**P-21169**	Lever—Fast Idle
	66	**P-12400**	Washer—Fast Idle Lever
	67	**P-21338**	Cotter Pin—Fast Idle Lever Washer
	68	**P-21067**	Float Cover
		P-17828	Vent Cap
		P-9802	Vent Cap Attach. Rivet
	69	**P-21068**	Gasket—Float Cover
	70	**P-47**	Screw—Float Cover Attach.
	71	**P-12167**	Lockwasher—Float Cover Attach. Screw
	72	**P-15477**	Idle Air Bleeder **No. 56** ....**(VAR.)**
	73	**P-19448**	Gasket—Power By-Pass Jet
	74	**P-19983**	Lead Ball 1/8"
	75	**P-7170**	Cotter Pin—Fast Idle Rod
	76	**P-15459**	Plug—Idle Channel 1/4"
	77	**P-21053**	Plug—Pump Disch. Channel 3/8-24
	78	**P-6184**	Plug—Pump Check Valve Channel 3/8-24
	79	**P-6387**	Plug—Idle Disch. Hole No. 10-32
	80	**P-21065**	Insulator—Main Body

BENDIX PRODUCTS DIVISION
SOUTH BEND **OF BENDIX AVIATION CORPORATION** **INDIANA**

STROMBERG "EE-22" CARBURETOR

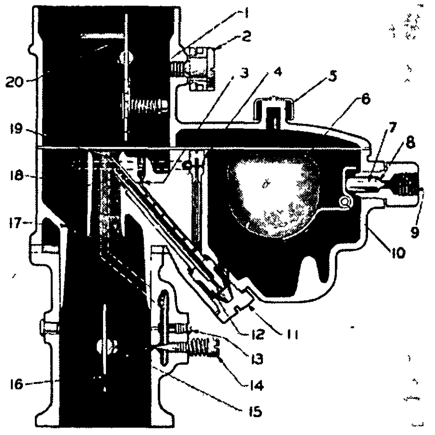
STROMBERG NO. A-18002 (CODE NO. 4-7) CHRYSLER SYMBOL 640396

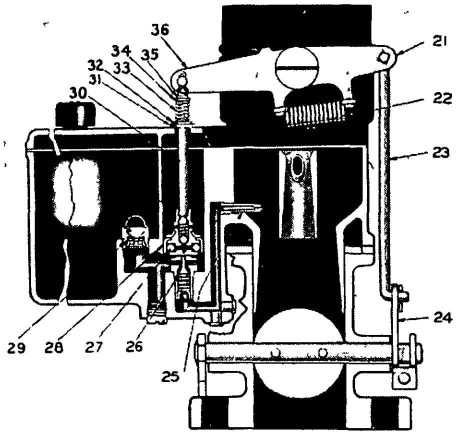
SIZE: 1¼" DUAL D. D. 4-HOLE FLANGE **REPLACE WITH AAV-2 EQT. J-5461**

1935
CHRYSLER
MODEL
"C-3"
3¼"x4⅞"—8 cyl.

PARTS ILLUSTRATED

1. Poppet Valve
2. Fulcrum Screw
3. High Speed Bleed
4. Idle Tube
5. Float Chamber Vent
6. Float
7. Float Needle Valve
8. Float Needle Valve Seat
9. Gasoline Inlet
10. Float Fulcrum Pin
11. Main Discharge Jet Plug
12. Main Metering Jet
13. Idle Discharge Plug
14. Idle Needle Valve
15. Idle Discharge Holes
16. Throttle Valve
17. Primary Venturi
18. Auxiliary Venturi
19. Main Discharge Jet
20. Choke Valve
21. Pump Lever Arm
22. Pump Arm Connecting Spring
23. Pump Rod
24. Pump Lever
25. Pump Discharge Nozzle
26. Power By-Pass Jet
27. Pump Piston Spring
28. Pump Piston
29. Check Valve
30. Pump Piston Link
31. Felt Washer
32. Splash Washer
33. Spring
34. Retainer Washer
35. Cotter Pin
36. Pump Piston Arm





Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **5/8"** below top surface of float chamber (without gasket) at 3 lbs. pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level.)

MAIN METERING SYSTEM—Venturi **1-3/32";** Main Discharge Jet **No. 28-36** P-19840 **(Tool T-24967);** High Speed Bleeder **No. 65** (in body); Main Metering Jet **.053"** P-17004 **(Tool T-23844).** Use **Tool T-19099** to remove Main Jet Plug. Main Metering System controls the flow of fuel up to approximately 65 to 70 M. P. H.

POWER SYSTEM—Combination Power and Pump By-Pass Jet **No. 53** P-19481. Pump piston to rest on seat of by-pass jet (less over-travel) with throttle valve opened **21/64" + — 1/64"** (measure with shank end of **21/64"** drill) adjust by bending pump rod. The Power Jet is brought into action at approximately 65 to 70 M. P. H.

ACCELERATION — Pump Discharge Nozzles **No. 71** P-18852; Pump capacity **16** to **20** c.c. per 10 fast strokes and **22** to **26** c.c. per 10 slow strokes. (Maximum setting.) Use **Tool T-24972.** Pump action takes place during acceleration period only.

IDLE SYSTEM—Idle Discharge Holes **No. 56-56;** with throttle valve fully closed and **No. 56** drill in idle hole, edge of valve is located **.040" + — .004"** from **No. 56** drill; Idle Air Bleed **No. 46** P-15477; Idle Tube **No. 72** P-18264. **Adjustment:** Adjust to smooth running, one barrel at a time, OUT to make richer and IN to make leaner. Throttle at 7 to 8 M. P. H.

VACUUM SPARK CONTROL—With throttle fully closed and **No. 56** drill in spark hole, edge of valve is located **.031"** from **No. 56** drill.

FLANGE GASKET—P-18165.

SPECIAL TOOLS REQUIRED—Use Chrysler complete Tool Kit **SER. 387:** T-24733 Float Bender; T-24967 Main Discharge Jet Remover; T-23844 Main Metering Jet Wrench; T-24970 By-Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burrette Gauge; T-24968 Handle; T-19099 Main Jet Plug Screw Driver.

MOTOR TUNE-UP DATA

SPARK PLUGS—.025".
Clean and adjust at regular intervals.

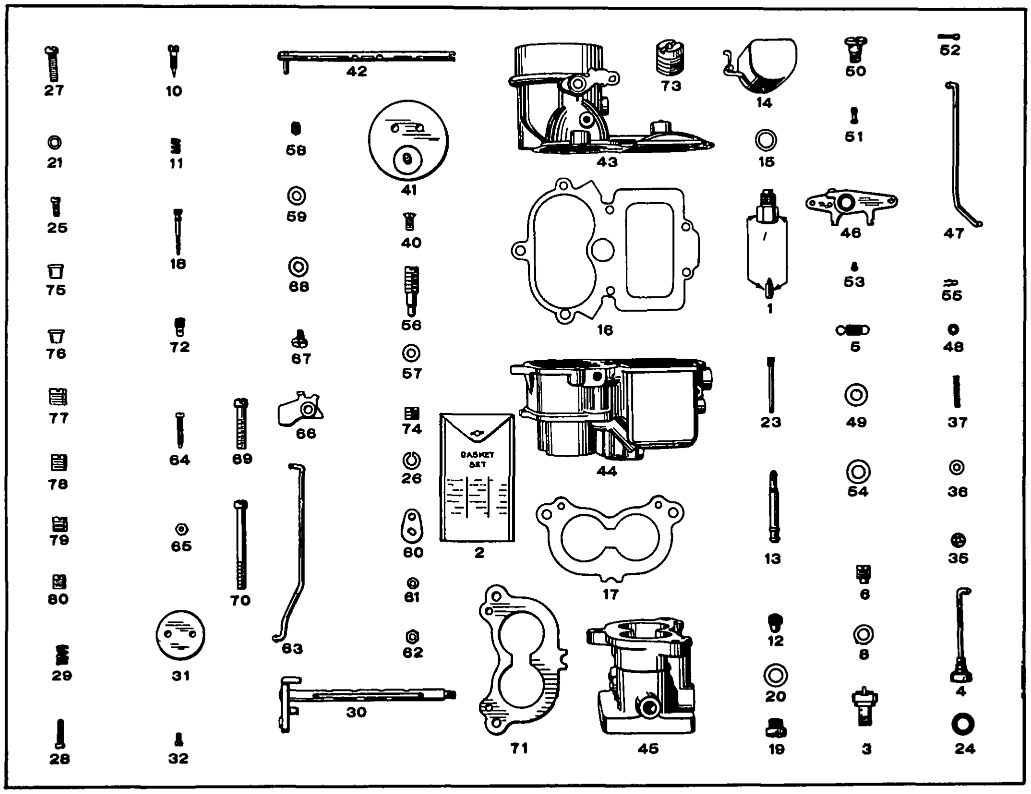
DISTRIBUTOR—.015" to .017".
Breaker gap set .015" to .017".
Replace if necessary.

VALVES—Intake: .006".
Exhaust: .008". **Engine hot.**

IGNITION TIMING—Breaker contacts to open at T.D.C. when zero mark on impulse neutralizer is in line with pointer on timing chain case.

SERVICE RECOMMENDATION — Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No.	Part No.	Part Name	
	1	P-20888	Float Needle Valve & Seat – 113	(NOT VAR.)
	2	J-4363-G	Complete Gasket Set	
	3	P 19481	Power—By Pass Jet No 53	(NOT VAR.)
	4	P-17073	Pump Piston and Link	(Includes P 16960)
	5	P 17042	Spring—Pump Duration	
	6	P 16990	Check Valve—Pump Inlet	
	8	P-6855	Gasket—By Pass Jet	
	10	P-17402	Idle Needle Valve	
	11	P-15481	Spring—Idle Needle Valve	
	12	P 17004	Metering Jet—.053	(VAR.)
	13	P-19840	Main Disch Jet No 28-36	(NOT VAR.)
	14	P-17926	Float With Lever	
	15	P-10666	Gasket—Float Needle Valve Seat	
	16	P-17923	Gasket—Air Horn	
	17	P-19390	Gasket—Main Body	
	18	P-18264	Idle Tube No 72	(NOT VAR.)
	19	P 18130	Plug—Main Disch Plug	
	20	P-60308	Gasket—Main Disch Plug	
	21	P-3157	Lockwasher—Main Body Attach Screw	
	23	P-17939	Screw—Fulcrum—Float Lever	
	24	P-16960	Spring—Pump Piston Leather Expansion	
	25	P-46	Screw—Air Horn Attach	
	26	P 6668	Lockwasher—Air Horn Attach Screw	
	27	P-15554	Screw—Main Body Attach	
	28	P-17890	Screw—Throttle Stop	
	29	P 15831	Spring—Throttle Stop Screw	
	30	P-19389	Throttle Lever and Stem	
	31	P-19850	Throttle Valve (5°)	(VAR.)
	32	P 16716	Screw—Throttle Valve Attach	
	35	P 17380	Washer—Felt	
	36	P-17060	Washer—Splash Pump Link	
	37	P-17753	Spring—Packing Retainer	
	40	P-4522	Screw—Choke Valve Attach	
	41	P-19770	Choke Valve	
	42	P-19387	Choke Stem and Pin	
		P-19767	Choke Stem Pin	
	43	P-18100	Air Horn	
		P 17995	Fast Idle Adj Lever	
		P-17996	Fast Idle Adj Lever Bushing	
		P-17828	Float Vent Cap	
		P-18351	Float Vent Screen	
		P 9802	Float Vent Cap-Attach Screw	
	43A	P-19362	Assy—Air Horn and Valve	
	44	P 20252	Main Body **1-3/32"** Venturi—Less High Speed Bleeders	(VAR.)
	45	P 20637	Throttle Body **No. 56-56** Idle Disch Holes **No. 56** Spark Hole	(VAR.)
	46	P-16976	Pump Lever	
	47	P 19392	Pump Rod	
	48	P 9394	Washer—Pump Rod	
	49	P 17133	Washer—Pump Lever Fulcrum Screw Spring	
	50	P-16973	Screw—Pump Lever Fulcrum	
	51	P 17027	Screw—Pump Lever Fulcrum Screw Lock	
	52	P-7170	Cotter Pin—Pump Lever and Link	
	53	P-6970	Screw—Pump Lever Stop	
	54	P 17009	Washer—Pump Lever Fulcrum Screw	
	55	P-19374	Cotter Pin—Pump Link	
	56	P-18852	Nozzle—Pump Disch **No. 71**	(VAR.)
	57	P 12400	Washer—Choke Stem	
	58	P 16161	Set Screw—Choke Stem Collar	
	59	P 17081	Collar—Choke Stem	
	60	P-18262	Lever—Fast Idle	
	61	P-1791	Lockwasher—Fast Idle Lever Nut	
	62	P-2290	Nut—Fast Idle Lever	
	63	P-18408	Rod—Fast Idle	
	64	P-17998	Screw—Fast Idle	
	65	P-17812	Nut—Fast Idle Screw Lock	
	66	P-17997	Lever—Fast Idle Weight	
	67	P 17968	Screw—Fast Idle Weight Lever Fulcrum	
	68	P-17999	Washer—Fast Idle Weight Lever Fulcrum Screw	
	69	P-19395	Screw—Main Body Attach	
	70	P-19396	Screw—Air Horn Attach	
	71	P-19391	Gasket—Main Body Insulator	
	72	P-15477	Idle Air Bleeder **No. 46**	(VAR.)
	73	P 20242	High Speed Bleeder **No. 65**	(VAR.)
	74	P 3292	Plug—1/8 Pipe Decarbonizing	
	75	P-15459	Plug—Idle Disch Hole 1/4"	
	76	P-15457	Plug—Drive 6"	
	77	P-6406	Plug—Pump Channel No 5/16-24	
	78	P 6202	Plug—Pump Channel No 1/5-32	
	79	P-6387	Plug—Idle Disch Hole No 10-32	
	80	P-7098	Plug—Pump Channel No 8-32	

NOTE—For parts marked (VAR.) size must be specified when ordering.

BENDIX PRODUCTS DIVISION
SOUTH BEND **OF BENDIX AVIATION CORPORATION** **INDIANA**

STROMBERG "EE-22" CARBURETOR

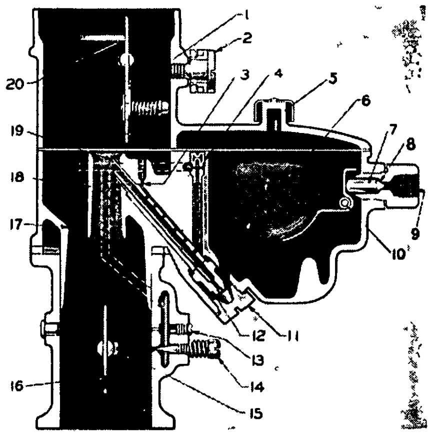
STROMBERG NO. A-17992 (CODE NO. 4-6) CHRYSLER SYMBOL 639181

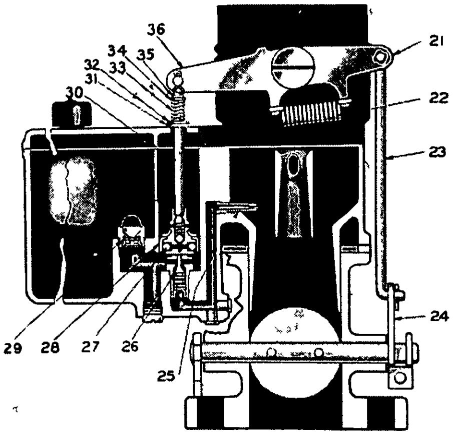
SIZE: 1¼" DUAL D. D. 4-HOLE FLANGE

REPLACE WITH AAV-2 EQT. J-5461

1935
CHRYSLER
MODEL
"C-2"
3¼"x4⅞"—8 cyl.

PARTS ILLUSTRATED





1 Poppet Valve
2 Fulcrum Screw
3 High Speed Bleed
4 Idle Tube
5 Float Chamber Vent
6 Float
7 Float Needle Valve
8 Float Needle Valve Seat
9 Gasoline Inlet
10 Float Fulcrum Pin
11 Main Discharge Jet Plug
12 Main Metering Jet
13 Idle Discharge Plug
14 Idle Needle Valve
15 Idle Discharge Holes
16 Throttle Valve
17 Primary Venturi
18 Auxiliary Venturi
19 Main Discharge Jet
20 Choke Valve
21 Pump Lever Arm
22 Pump Arm Connecting Spring
23 Pump Rod
24 Pump Lever
25 Pump Discharge Nozzle
26 Power By-Pass Jet
27 Pump Piston Spring
28 Pump Piston
29 Check Valve
30 Pump Piston Link
31 Felt Washer
32 Splash Washer
33 Spring
34 Retainer Washer
35 Cotter Pin
36 Pump Piston Arm

Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **5/8"** below top surface of float chamber (without gasket) at 3 lbs. pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level.)

MAIN METERING SYSTEM—Venturi **1-3/32";** Main Discharge Jet **No. 28-36** P-19840 **(Tool T-24967);** High Speed Bleeder **No. 65** (in body); Main Metering Jet **.053"** P-17004 **(Tool T-23844).** Use **Tool T-19099** to remove Main Jet Plug. Main Metering System controls the flow of fuel up to approximately 65 to 70 M. P. H.

POWER SYSTEM—Combination Power and Pump By-Pass Jet **No. 53** P-19481. Pump piston to rest on seat of by-pass jet (less over-travel) with throttle valve opened **21/64" + — 1/64"** (measure with shank end of **21/64"** drill) adjust by bending pump rod. The Power Jet is brought into action at approximately 65 to 70 M. P. H.

ACCELERATION—Pump Discharge Nozzles **No. 71** P-18852; Pump capacity **16** to **20** c.c. per 10 fast strokes and **22** to **26** c.c. per 10 slow strokes. (Maximum setting.) Use **Tool T-24972.** Pump action takes place during acceleration period only.

IDLE SYSTEM—Idle Discharge Holes **No. 56-56;** with throttle valve fully closed and **No. 56** drill in idle hole, edge of valve is located **.040" + — .004"** from **No. 56** drill; Idle Air Bleed **No. 46** P-15477; Idle Tube **No. 72** P-18264. **Adjustment:** Adjust to smooth running, one barrel at a time, OUT to make richer and IN to make leaner. Throttle at 7 to 8 M. P. H.

VACUUM SPARK CONTROL—With throttle fully closed and **No. 56** drill in spark hole, edge of valve is located **.031"** from **No. 56** drill.

FLANGE GASKET—P-18165.

SPECIAL TOOLS REQUIRED—Use Chrysler complete Tool Kit **SER. 387;** T-24733 Float Adjuster; T-24967 Main Discharge Jet Remover; T-23844 Main Metering Jet Wrench; T-24970 By-Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burrette Gauge; T-24968 Handle; T-19099 Main Jet Plug Screw Driver.

MOTOR TUNE-UP DATA

SPARK PLUGS—.025".
Clean and adjust at regular intervals.

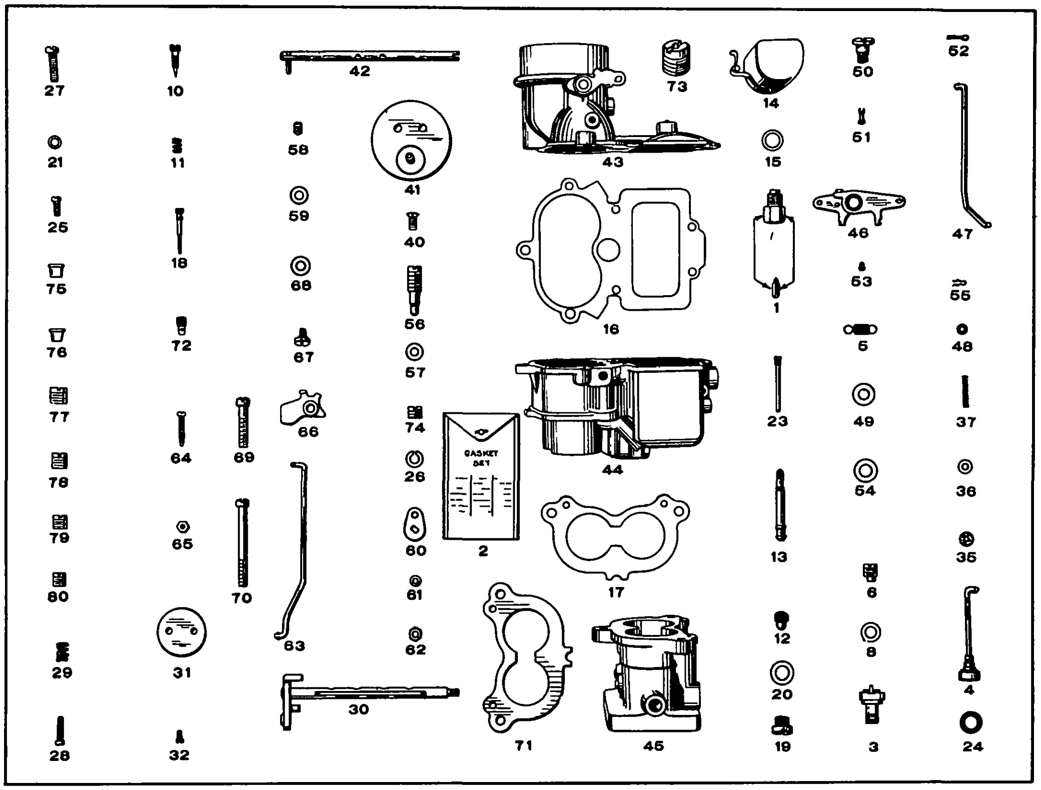
DISTRIBUTOR—.017" to .022".
Breaker gap set .017" to .022".
Replace if necessary.

VALVES—Intake: .006".
Exhaust: .008". **Engine hot.**

IGNITION TIMING—Breaker contacts to open at T.D.C. when zero mark on impulse neutralizer is in line with pointer on timing chain case.

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No.	Part No.	Part Name	
	1	**P-20888**	Float Needle Valve & Seat—113	**(NOT VAR.)**
	2	**J-4363-G**	Complete Gasket Set	
	3	**P-19481**	Power—By-Pass Jet No 53	**(NOT VAR.)**
	4	**P-17073**	Pump Piston and Link	**(Includes P 16960)**
	5	**P-17042**	Spring—Pump Duration	
	6	**P-16990**	Check Valve Pump Inlet	
	8	**P-6855**	Gasket—By-Pass Jet	
	10	**P-17402**	Idle Needle Valve	
	11	**P-15481**	Spring—Idle Needle Valve	
	12	**P-17004**	Metering Jet—**.053"**	**(VAR.)**
	13	**P-19840**	Main Disch Jet No 28-36	**(NOT VAR.)**
	14	**P-17926**	Float with Lever	
	15	**P-10666**	Gasket—Float Needle valve Seat	
	16	**P-17923**	Gasket—Air Horn	
	17	**P-19390**	Gasket—Main Body	
	18	**P-18264**	Idle Tube—No 72	**(NOT VAR.)**
	19	**P-18130**	Plug—Main Disch Jet	
	20	**P-60308**	Gasket—Main Disch Jet Plug	
	21	**P-3157**	Lockwasher—Main Body Attach Screw	
	23	**P-17939**	Screw—Fulcrum—Float Lever	
	24	**P-16960**	Spring—Pump Piston Leather Expansion	
	25	**P-46**	Screw—Air Horn Attach	
	26	**P-6668**	Lockwasher—Air Horn Attach Screw	
	27	**P-15554**	Screw—Main Body Attach	
	28	**P-17890**	Screw—Throttle Stop	
	29	**P-15831**	Spring—Throttle Stop Screw	
	30	**P-19389**	Throttle Lever and Stem	
	31	**P-19850**	Throttle Valve **(5°)**	**(VAR.)**
	32	**P-16716**	Screw—Throttle Valve Attach	
	35	**P-17380**	Washer—Felt	
	36	**P-17060**	Washer—Splash—Pump Link	
	37	**P-17753**	Spring—Packing Retainer	
	40	**P-4522**	Screw—Choke Valve Attach	
	41	**P-19770**	Choke Valve	
	42	**P-19387**	Choke Stem and Pin	
		P-19767	Choke Stem Pin	
	43	**P-18100**	Assy—Air Horn	
		P-17995	Fast Idle Adj Lever	
		P-17996	Fast Idle Adj Lever Bushing	
		P-17828	Float Vent Cap	
		P-18351	Float Vent Screen	
		P-9802	Float Vent Cap Screw	
	43 A	**P-19362**	Assy—Air Horn and Valve	
	44	**P-20252**	Assy—Main Body **1-3/32"** Venturi **No. 65** H' S Bleeder	**(VAR.)**
	45	**P-20637**	Throttle Body **No. 56-56** Idle Disch Holes **No. 56** Spark Hole	**(VAR.)**
	46	**P-16976**	Pump Lever	
	47	**P-19392**	Pump Rod	
	48	**P-9394**	Washer—Pump Rod	
	49	**P 17133**	Washer—Pump Fulcrum Screw Spring	
	50	**P-16973**	Screw—Pump Lever Fulcrum	
	51	**P-17027**	Screw—Pump Lever Fulcrum Screw Lock	
	52	**P-7170**	Cotter Pin—Pump Lever and Link	
	53	**P-6970**	Screw—Pump Lever Stop	
	54	**P-17009**	Washer—Pump Lever Fulcrum Screw	
	55	**P-19374**	Cotter Pin—Pump Link	
	56	**P-18852**	Nozzle—Pump Disch **No. 71**	**(VAR.)**
	57	**P-12400**	Washer—Choke Stem	
	58	**P-16161**	Set Screw—Choke Stem Collar	
	59	**P-17081**	Collar—Choke Stem	
	60	**P-18262**	Lever—Fast Idle	
	61	**P-1791**	Lockwasher Fast Idle Lever Nut	
	62	**P-2290**	Nut—Fast Idle Lever	
	63	**P 18408**	Rod—Fast Idle	
	64	**P-17998**	Screw—Fast Idle	
	65	**P 17812**	Nut—Fast Idle Screw Lock	
	66	**P-17997**	Lever—Fast Idle Weight	
	67	**P-17968**	Screw—Fast Idle Weight Lever Fulcrum	
	68	**P-17999**	Washer—Fast Idle Weight Fulcrum Screw	
	69	**P-19395**	Screw—Main Body Attach	
	70	**P-19396**	Screw—Air Horn	
	71	**P-19391**	Gasket—Main Body Insulator	
	72	**P-15477**	Idle Air Bleeder—**No. 46**	**(VAR.)**
	73	**P-20242**	High Speed Bleeder—**No. 65**	**(VAR.)**
	74	**P-3292**	Plug—⅛" Pipe	
	75	**P 15459**	Plug—Idle Disch Hole 1/5"	
	76	**P 15457**	Plug—Drive No 6	
	77	**P-6406**	Plug—Pump Channel No $\frac{5}{16}$-24	
	78	**P-6202**	Plug—Pump Channel No 1/5-32	
	79	**P-6387**	Plug—Idle Disch Hole No 10-32	
	80	**P-7098**	Plug—Pump Channel No 8-32	

NOTE—For parts marked (VAR.) size must be specified when ordering.

BENDIX PRODUCTS DIVISION
SOUTH BEND **OF BENDIX AVIATION CORPORATION** **INDIANA**

Printed in U S A

STROMBERG "EX-32" CARBURETOR

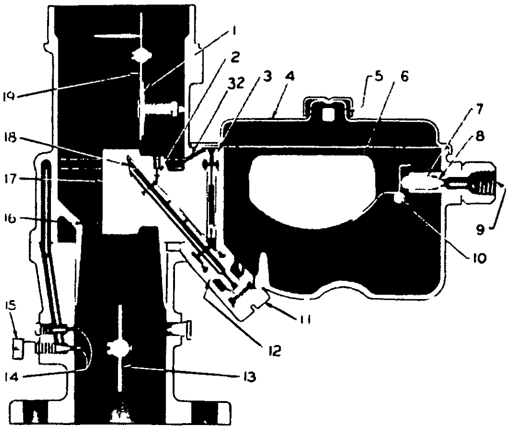
STROMBERG NO. A 17723 (CODE NO. 4-4) CHRYSLER SYMBOL 640707

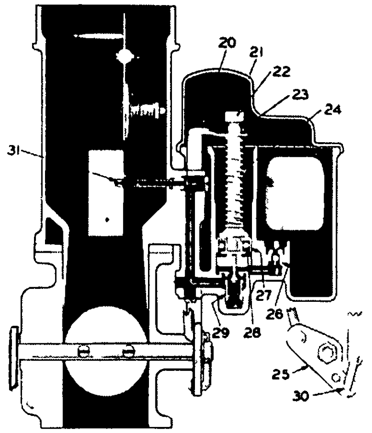
SIZE: 1½" S. A. E. 2 15/16" FLANGE CENTERS.

1935-36
CHRYSLER
MODELS
1935 "C-1"
1936 "C-9"
3¼"x4⅞"—8 cyl.

PARTS ILLUSTRATED

1 Poppet Valve
2 High Speed Bleed
3 Idle Tube
4 Float Chamber Cover
5 Float Chamber Vent
6 Float
7 Float Needle Valve
8 Float Needle Valve Seat
9 Gasoline Inlet
10 Float Fulcrum Pin
11 Main Discharge Jet Plug
12 Main Metering Jet
13 Throttle Valve
14 Idle Discharge Holes
15 Idle Needle Valve
16 Primary Venturi
17 Auxiliary Venturi
18 Main Discharge Jet
19 Choke Valve
20 Pump Rod
21 Power Adjustment Nut
22 Cotter Pin
23 Piston Connecting Rod
24 Connecting Rod Spring
25 Pump Lever
26 Check Valve
27 Pump Piston
28 Pump Piston Spring
29 Power By Pass Jet
30 Pump Lever Link
31 Pump Discharge Nozzle





Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **5/8"** below top surface of float chamber (without gasket) at 3 lbs pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level)

MAIN METERING SYSTEM—Venturi **1-5/16"**; Main Discharge Jet **No. 28** P-20877 **(Tool T-24967)**; High Speed Bleeder **No. 70** (in body), Main Metering Jet **.065"** P-17004 **(Tool T-23844)**; **(Tool T-19099)** used to remove main jet plug, Main Metering System controls the flow of fuel up to approximately 65 to 70 M P H

POWER SYSTEM—Combination Power and Pump By-Pass Jet **4 No. 56** P-18149 Pump piston to rest on seat of by-pass jet (less over-travel) with throttle valve opened **27/64"** (measure with shank end of **27/64"** drill) adjust pump stem nut to obtain correct setting (max pump adj) The Power Jet is brought into action at approximately 65 to 70 M P H

ACCELERATION—Pump Discharge Nozzle **No. 64** P-18126, Pump capacity **19** to **21** c c per 10 strokes (Maximum setting) **(Tool T-24972)** Pump action takes place during acceleration period only

IDLE SYSTEM—Idle Discharge Holes **No. 56-58**; with throttle valve fully closed and **No. 58** drill in idle hole, edge of valve is located **.012" + — .004"** from **No. 58** drill, Idle Air Bleed **No. 56** P-15477, Idle Tube **No. 70** P-19424 **Adjustment:** Adjust to smooth running, OUT to make richer and IN to make leaner Throttle at 7 to 8 M P H.

VACUUM SPARK CONTROL—With throttle fully closed and **No. 50** drill in spark hole, edge of valve is located **Flush** with **No. 50** drill

FLANGE GASKET—P-4753

SPECIAL TOOLS REQUIRED—Use Chrysler complete Tool Kit **SER-387**; T-24733 Float Adjuster T-24967 Main Discharge Jet Remover, T-23844 Main Metering Jet Wrench, T-24970 By-Pass Jet and Check Valve Tester, T-24972 Pump Capacity Burrette Gauge, T-24968 Handle, T-19099 Main Discharge Jet Plug Screw Driver

MOTOR TUNE-UP DATA

SPARK PLUGS—.025".
Clean and adjust at regular intervals.

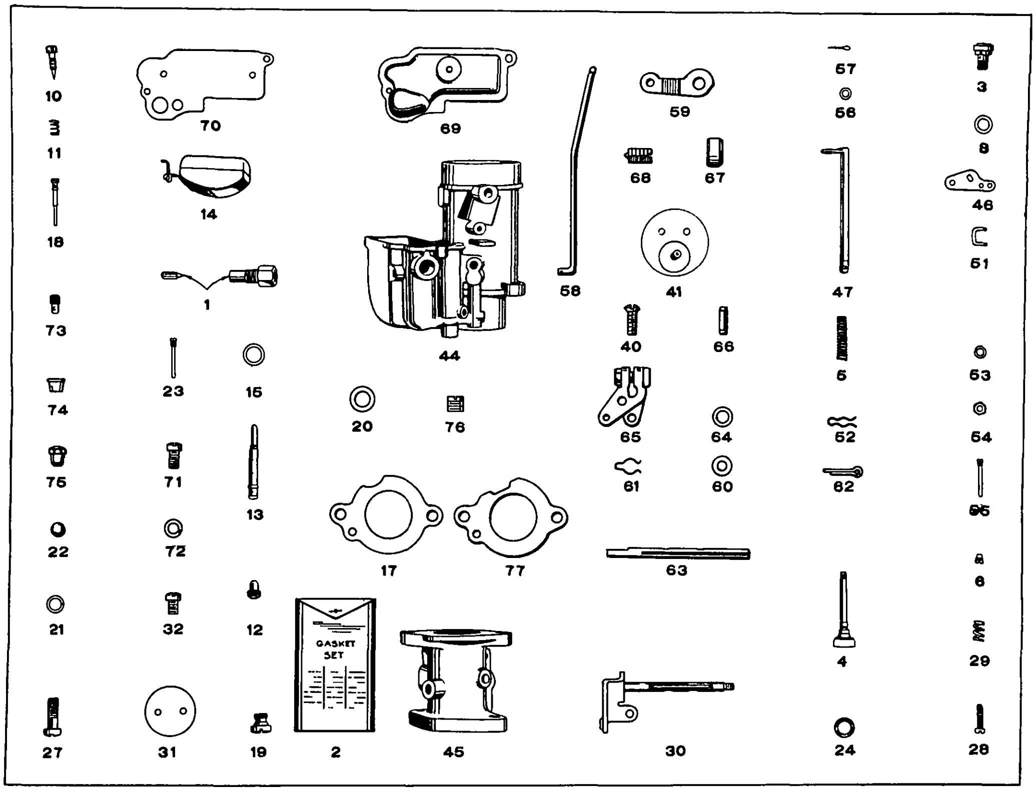
DISTRIBUTOR—.015" to .017".
Breaker gap set .015" to .017".
Replace if necessary.

VALVES—Intake: .006".
Exhaust: .008". Engine hot.

IGNITION TIMING—Breaker contacts to open at T.D.C. when zero mark on impulse neutralizer is in line with pointer on timing chain case.

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No.	Part No.	Part Name	
	1	**P-20887**	Float Needle Valve & Seat—101"	**(NOT VAR.)**
	2	**J-4537-G**	Complete Gasket Set	
	3	**P-18149**	Power By-Pass Jet 4 No 56	**(NOT VAR.)**
	4	**P-19167**	Pump Piston and Stem	**(Includes P-16960 Spring)**
	5	**P-18215**	Spring—Pump Duration	)
	6	**P-18144**	Check Valve—Pump Inlet	
	8	**P-6855**	Gasket—By-Pass Jet	
	10	**P-17402**	Idle Needle Valve	
	11	**P-15481**	Spring—Idle Needle Valve	
	12	**P-17004**	Metering Jet **.065"**	**(VAR.)**
	13	**P-20877**	Main Disch Jet No 28	**(NOT VAR.)**
	14	**P-17486**	Float with Lever	
	15	**P-10666**	Gasket—Float Needle Seat & M Disch Jet Plug	
	17	**P-19383**	Gasket—Main Body	
	18	**P-19424**	Idle Tube No 70	**(NOT VAR.)**
	19	**P-18130**	Plug—Main Disch Jet	
	21	**P-8838**	Lockwasher—Main Body Attach Screw	
	22	**P-18772**	Lead Ball	
	23	**P-18125**	Screw—Fulcrum—Float Lever	
	24	**P-16960**	Spring—Pump Piston Leather Expansion	
	27	**P-19339**	Screw—Main Body Attach	
	28	**P-15456**	Screw—Throttle Stop	
	29	**P-15831**	Spring—Throttle Stop Screw	
	30	**P-21168**	Throttle Lever and Stem	
	31	**P-5436**	Throttle Valve **(20°)**	**(VAR.)**
	32	**P 16716**	Screw—Throttle Valve Attach	
	40	**P-4522**	Screw—Choke Valve Attach	
	41	**P-20664**	Choke Valve	
	44	**P-20683-T**	Main Body **1-5/16"** Venturi **No. 70** H S Bleeder	**(VAR.)**
	45	**P-20645**	Throttle Body **No. 56-58** Idle Disch Holes **No. 50** Spark Hole	**(VAR.)**
		P-19370	Throttle Stop Pin	
	46	**P-20628**	Pump Lever	
	47	**P-19165**	Pump Rod	
	51	**P-20203**	Pump Link	
	52	**P-19374**	Cotter Pin—Pump Link	
	53	**P-1791**	Lockwasher—Pump Lever Attach Nut	
	54	**P-2290**	Nut—Pump Lever Attach	
	55	**P-18126**	Nozzle—Pump Disch—**No. 64**	**(VAR.)**
	56	**P-18135**	Nut—Pump Rod	
	57	**P-4**	Cotter Pin—Pump Rod Nut	
	58	**P-19367**	Rod—Fast Idle	
	59	**P-21169**	Lever—Fast Idle	
	60	**P-12400**	Washer—Fast Idle Lever	
	61	**P-21338**	Cotter Pin—Fast Idle Lever Washer	
	62	**P-7170**	Cotter Pin—Fast Idle Rod	
	63	**P-20655**	Stem—Choke Valve	
	64	**P-4735**	Washer—Choke Stem	
	65	**P-20657**	Assy—Choke Lever & Screw	
		P-20658	Choke Lever	
		P-18300	Choke Lever Clamp Screw	
		P-18299	Choke Lever Clamp Screw Nut	
	66	**P-3881**	Pin—Choke Stem	
	67	**P-17081**	Collar—Choke Stem	
	68	**P-16161**	Screw—Choke Stem Collar Set	
	69	**P-18124-F**	Float Cover	
	70	**P-17778**	Gasket—Float Cover	
	71	**P-2886**	Screw—Float Cover Attach	
	72	**P-12167**	Lockwasher—Float Cover Attach Screw	
	73	**P-15477**	Idle Air Bleeder—**No. 56**	**(VAR.)**
	74	**P-15459**	Plug—Idle Channel—1/4"	
	75	**P-21053**	Plug—Pump Disch Channel	
	76	**P-6387**	Plug—Idle Disch Hole—No 10-32	
	77	**P-19384**	Insulator—Main Body	

NOTE—For parts marked (VAR.) size must be specified when ordering.

BENDIX PRODUCTS DIVISION
SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

STROMBERG "EXV-3" CARBURETOR

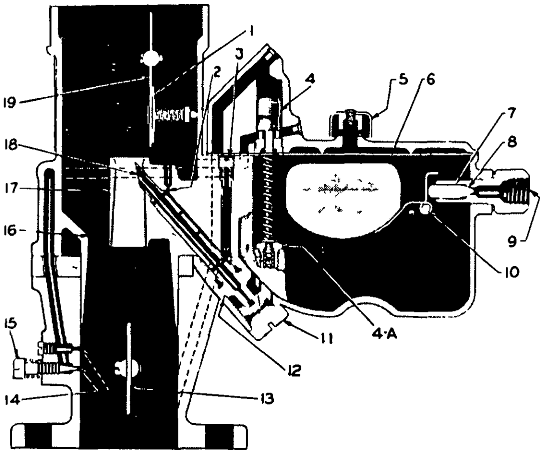
STROMBERG NO. A-17763 (CODE NO. 4-21) CHRYSLER SYMBOL 650787

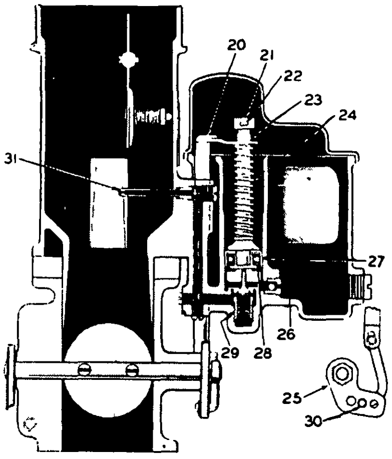
SIZE: 1½" D. D. S. A. E. 2-15/16" FLANGE CENTERS

1935-36
CHRYSLER
MODELS
1935 "CZ"
1936 "C-8"
3¼"x4⅛"—8 cyl.

PARTS ILLUSTRATED

1. Poppet Valve
2. High Speed Bleeder
3. Idle Tube
4 Vacuum Power Piston
4a. Power By-Pass Jet
5. Float Chamber Vent
6. Float
7 Float Needle Valve
8. Float Needle Valve Seat
9. Gasoline Inlet
10. Float Fulcrum Pin
11. Main Discharge Jet Plug
12. Main Metering Jet
13. Throttle Valve
14. Idle Discharge Holes
15. Idle Needle Valve
16. Primary Venturi
17. Auxiliary Venturi
18 Main Discharge Jet
19. Choke Valve
20. Pump Rod
21. Pump Adjustment Nut
22. Cotter Pin
23. Piston Connecting Rod
24. Pump Duration Spring
25 Pump Lever
26 Pump Inlet Check Valve
27 Pump Piston
28. Pump Piston Expansion Spring
29. Accel. Pump By-Pass Jet
30. Pump Lever Link
31 Pump Discharge Nozzle





Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **5/8"** below top surface of float chamber (without gasket) at 3 lbs. pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level).

MAIN METERING SYSTEM—Venturi **1-3/16"**; Main Discharge Jet **No. 28** P-21326 **(Tool T-24967)**; High Speed Bleeder **No. 65** (in body); Main Metering Jet **.060"** P-17004 **(Tool T-23844) (Tool T-19099)** used to remove main jet plug; Main Metering system controls the flow of fuel up to approximately 65 to 70 M. P. H.

POWER SYSTEM—Power By-Pass Jet **No. 54** P-21197; Power jet to come into operation at **4"** to **6"** of manifold vacuum, which is approximately 65 to 70 M P. H. **(Tool T-24733)** used to remove P-21074 vacuum power piston.

ACCELERATION — Pump Discharge Nozzles **No. 64** P-17020; Pump By-Pass Jet **4 No. 56** P-21076; Pump capacity **11** to **15** c.c. per 10 fast strokes, and **15** to **19** c.c. per 10 slow strokes (Middle adjustment); **(Tool T-24972)** pump adjustment nut to be **flush** with top of stem. Pump action takes place during acceleration period only.

IDLE SYSTEM—Idle Discharge holes **No. 56-58**; with throttle valve fully closed and **No. 58** drill in idle hole, edge of valve is located **.012" + — .004"** from **No. 58** drill; Idle Air Bleed **No. 54** P-15477; Idle Tube **No. 70** P-19424. **Adjustment:** Adjust to smooth running, OUT to make richer and IN to make leaner; throttle at 7 to 8 M. P. H.

VACUUM SPARK CONTROL—With throttle fully closed and **No. 50** drill in spark hole, edge of valve is located **Flush** with **No. 50** drill.

FLANGE GASKET—P-4753.

SPECIAL TOOLS REQUIRED—Use **Chrysler** complete Tool Kit **SER. 387**; T-24733 Float Adjuster and Power Piston Wrench; T-24967 Main Discharge Jet Remover; T-23844 Main Metering Jet Wrench; T-24970 By-Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burrette Gauge; T-24968 Handle; T-19099 Main Jet Plug Screw Driver.

MOTOR TUNE-UP DATA

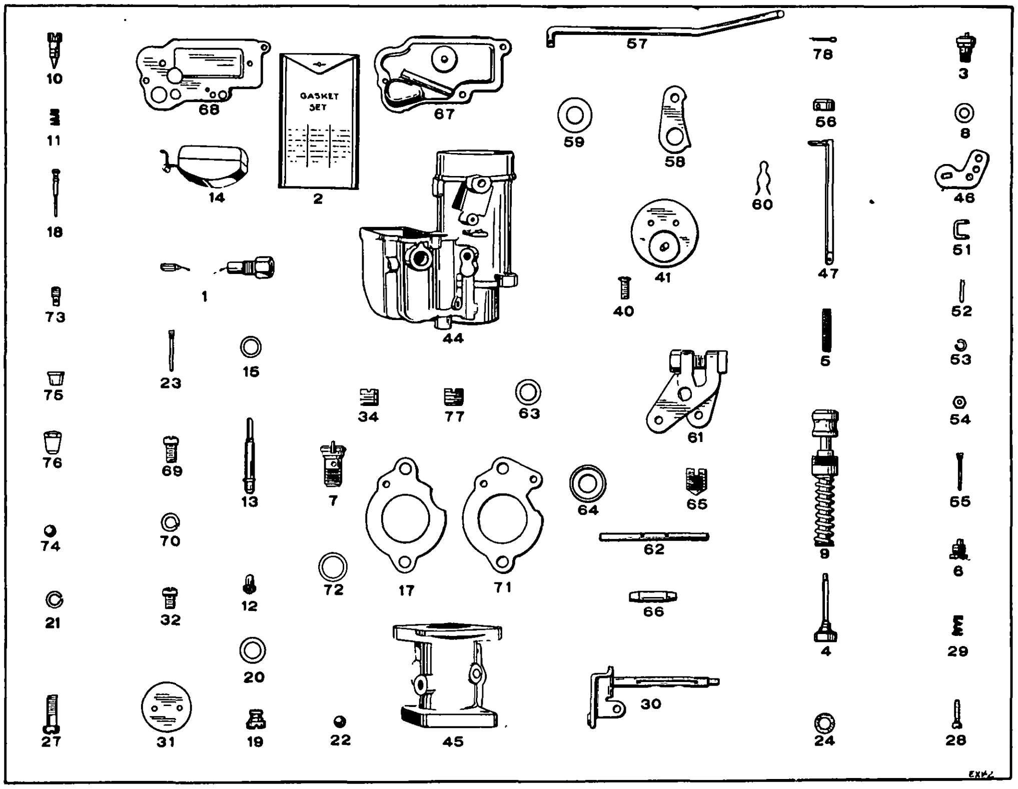
SPARK PLUG—.025".
Clean and adjust at regular intervals.

DISTRIBUTOR—.015" to .017".
Breaker gap set .015" to .017".
Replace if necessary.

VALVES—Intake: .006".
Exhaust: .008". Engine hot.

IGNITION TIMING—Breaker contacts to open at T.D.C. when zero mark on impulse neutralizer is in line with pointer on timing chain case.

SERVICE RECOMMENDATION — Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No.	Part No.	Part Name
	1	**P-20887**	Float Needle Valve & Seat—.101" . **(NOT VAR.)**
	2	**J-4544-G**	Complete Gasket Set
	3	**P-21076**	Pump By-Pass Jet 4 No. 56 **(NOT VAR.)**
	4	**P-19167**	Pump Piston and Stem **(Includes P-16960 Spring)**
	5	**P-18215**	Spring—Pump Duration
	6	**P-18144**	Check Valve Pump Inlet
	7	**P-21197**	Power By-Pass Jet No. 54 **(NOT VAR.)**
	8	**P-6855**	Gasket—Pump By-Pass Jet
	9	**P-21074**	Vacuum Power Piston
	10	**P-17402**	Idle Needle Valve
	11	**P-15481**	Spring—Idle Needle Valve
	12	**P-17004**	Metering Jet **.060"** **(VAR.)**
	13	**P-21326**	Main Discharge Jet No. 28 **(NOT VAR.)**
	14	**P-21663**	Float with Lever
	15	**P-10666**	Gasket—Float Needle Valve Seat
	17	**P-21064**	Gasket—Main Body
	18	**P-19424**	Idle Tube No. 70 **(NOT VAR.)**
	19	**P-18130**	Plug—Main Discharge Jet
	20	**P-60308**	Gasket—Main Discharge Jet Plug
	21	**P-8838**	Lockwasher—Main Body Attach. Screw
	22	**P-18772**	Lead Ball
	23	**P-18125**	Screw—Float Fulcrum
	24	**P-16960**	Spring—Pump Piston Leather **Expansion**
	27	**P-19339**	Screw—Main Body Attach.
	28	**P-15436**	Screw—Throttle Stop
	29	**P-15831**	Spring—Throttle Stop Screw
	30	**P-21168**	Throttle Lever and Stem
	31	**P-5436**	Throttle Valve **(20°)** **(VAR.)**
	32	**P-16716**	Screw—Throttle Valve Attach.
	34	**P-6184**	Plug—Check Valve 3/8-24
	40	**P-4522**	Screw—Choke Valve Attach.
	41	**P-20664**	Choke Valve
	44	**P-21073**	Main Body **1-3/16"** Venturi, **No. 65** H. S. Bleeder **(VAR.)**

NOTE—For parts marked (VAR.) size must be specified when ordering.

Bin Location	Key No.	Part No.	Part Name
	45	**P-21062**	Assy.—Throttle Body **No. 56-58** Idle Holes **No. 50** Spark Hole **(VAR.)**
		P-19370	Throttle Stop Pin
	46	**P-20628**	Pump Lever
	47	**P-19165**	Pump Rod
	51	**P-20203**	Pump Link
	52	**P-19374**	Cotter Pin—Pump Link
	53	**P-1791**	Lockwasher—Pump Lever Attach. Nut
	54	**P-2290**	Nut—Pump Lever Attach.
	55	**P-17020**	Pump Discharge Nozzle **No. 64** **(VAR.)**
	56	**P-18135**	Nut—Pump Piston Adj.
	57	**P-19367**	Rod—Fast Idle
	58	**P-21169**	Lever--Fast Idle
	59	**P-12400**	Washer--Fast Idle Lever
	60	**P-21338**	Cotter Pin—Fast Idle Lever Washer
	61	**P-20657**	Assy.—Choke Lever
		P-20658	Choke Lever
		P-18300	Choke Lever Clamp Screw
		P-18299	Choke Lever Clamp Screw Nut
	62	**P-20655**	Choke Stem
	63	**P-4735**	Washer—Choke Stem
	64	**P-17081**	Collar—Choke Stem
	65	**P-16161**	Screw—Choke Stem Collar Set
	66	**P-3881**	Pin—Choke Stem
	67	**P-21067**	Cover—Float Chamber
	68	**P-21068**	Gasket—Float Chamber Cover
	69	**P-47**	Screw—Float Chamber Cover Attach.
	70	**P-12167**	Lockwasher—Float Chamber Cover Attach. Screw
	71	**P-21065**	Insulator—Main Body
	72	**P-19448**	Gasket—Power By-Pass Jet
	73	**P-15477**	Idle Air Bleeder—**No. 54** **(VAR.)**
	74	**P-19983**	Lead Ball 1/8"
	75	**P-15459**	Plug Idle Channel 1/4"
	76	**P-21053**	Plug—Pump Discharge Channel
	77	**P-6387**	Plug—Idle Discharge Hole—No. 10-32
	78	**P-4**	Cotter Pin—Fast Idle Rod & Pump Adj. Nut

BENDIX PRODUCTS DIVISION
SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

STROMBERG "EX-32" CARBURETOR

STROMBERG NO. A-17863 (CODE NO. 4-5) CHRYSLER SYMBOL 635750

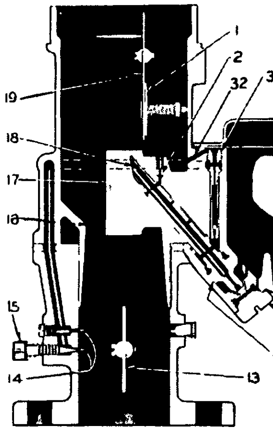
SIZE: 1½" D. D. S. A. E. 2-15/16" FLANGE CENTERS

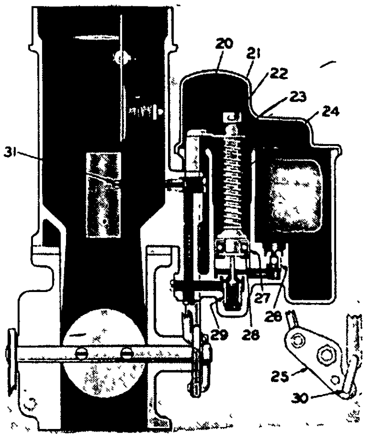
1935-36 CHRYSLER

MODELS
1935—"CZ"
1936—"C-8"
3¼"x4⅛"—8 cyl.

PARTS ILLUSTRATED

1. Poppet Valve
2. High Speed Bleed
3. Idle Tube
4. Float Chamber Cover
5. Float Chamber Vent
6. Float
7. Float Needle Valve
8. Float Needle Valve Seat
9. Gasoline Inlet
10. Float Fulcrum Pin
11. Main Discharge Jet Plug
12. Main Metering Jet
13. Throttle Valve
14. Idle Discharge Holes
15. Idle Needle Valve
16. Primary Venturi
17. Auxiliary Venturi
18. Main Discharge Jet
19. Choke Valve
20. Pump Rod
21. Power Adjustment Nut
22. Cotter Pin
23. Piston Connecting Rod
24. Connecting Rod Spring
25. Pump Lever
26. Check Valve
27. Pump Piston
28. Pump Piston Spring
29. Power By-Pass Jet
30. Pump Lever Link
31. Pump Discharge Nozzle





Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **5/8"** below top surface of float chamber (without gasket) at 3 lbs. pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level.)

MAIN METERING SYSTEM—Venturi **1-5/16"**; Main Discharge Jet **No. 28** P-20287 **(Tool T-24967)**; High Speed Bleeder **No. 70** (in body); Main Metering Jet **.067"** P-17004 **(Tool T-23844).** Use **Tool T-19099** to remove Main Jet Plug; Main Metering System controls the flow of fuel up to approximately 65 to 70 M. P. H.

POWER SYSTEM—Combination Power and By-Pass Jet 4 **No. 56** P-18149. Pump piston to rest on seat of by-pass jet (less over-travel) with throttle valve opened **27/64"** (measure with shank end of **27/64"** drill) adjust pump stem nut to obtain correct setting (max. pump adj.); the Power Jet is brought into action at approximately 65 to 70 M. P. H.

ACCELERATION — Pump Discharge Nozzle **No. 64** P-18126; Pump capacity **19** to **21** per 10 strokes. (Maximum setting). Use **Tool T-24972.** Pump action takes place during acceleration period only.

IDLE SYSTEM—Idle Discharge Holes **Nos. 56-58;** with throttle valve fully closed and **No. 58** drill in idle hole, edge of valve is located **.012"** + — **.004"** from **No. 58** drill; Idle Air Bleed **No. 56** P-15477; Idle Tube **No. 70** P-17007. **Adjustment:** Adjust to smooth running, OUT to make richer and IN to make leaner. Throttle at 7 to 8 M. P. H.

VACUUM SPARK CONTROL—With throttle fully closed and **No. 50** drill in spark hole, edge of valve is located **Flush** with **No. 50** drill.

FLANGE GASKET—P-4753.

SPECIAL TOOLS REQUIRED—Use Chrysler complete Tool Kit **SER. 387;** T-24733 Float Adjuster; T-24967 Main Discharge Jet Remover; T-23844 Main Metering Jet Wrench; T-24970 By-Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burrette Gauge; T-24968 Handle; T-19099 Main Jet Plug Screw Driver.

MOTOR TUNE-UP DATA

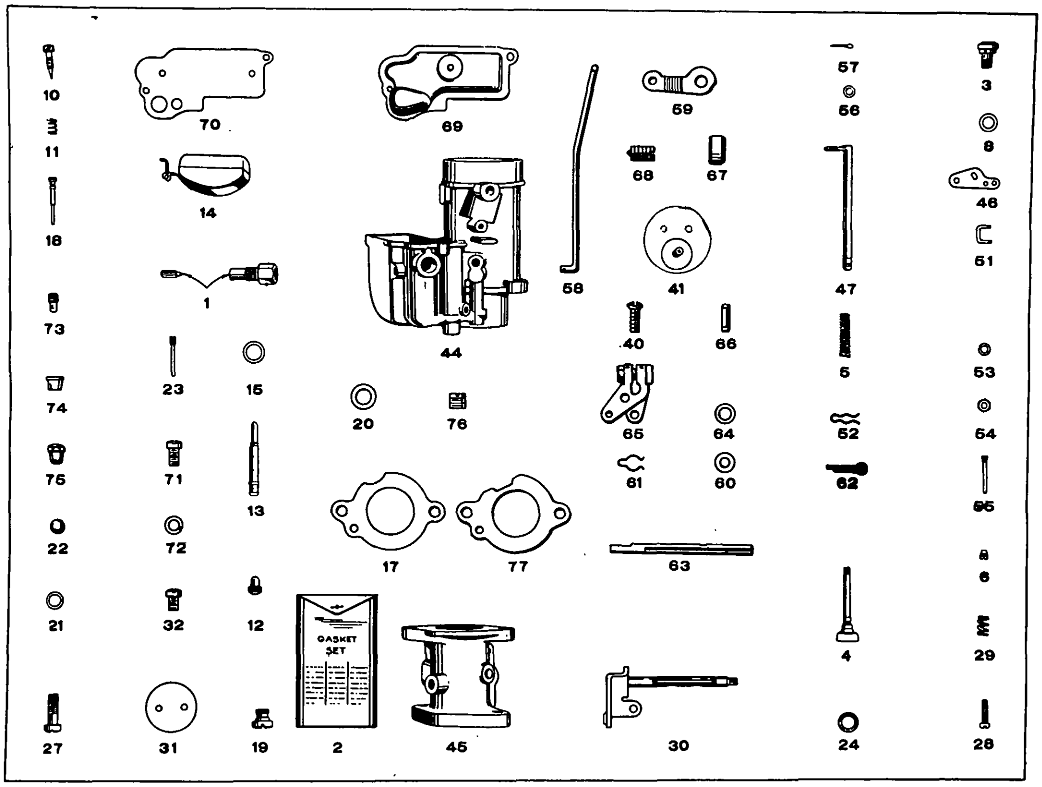
SPARK PLUGS—.025".
Clean and adjust at regular intervals.

DISTRIBUTOR—.015" to .017".
Breaker gap set .015" to .017".
Replace if necessary.

VALVES—**Intake: .006".**
Exhaust: .008". Engine hot.

IGNITION TIMING—**Breaker contacts to open at T. D. C. when zero mark on impulse neutralizer is in line with pointer on timing chain case.**

SERVICE RECOMMENDATION — **Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.**



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No.	Part No.	Part Name
	1	P-20887	Float Needle Valve and Seat—.101" (NOT VAR.)
	2	J-4364-G	Complete Gasket Set
	3	P-18149	Power By-Pass Jet No. 56 (NOT VAR.)
	4	P-19167	Pump Piston and Stem (Includes P-16960)
	5	P-18215	Spring—Pump Duration
	6	P-18144	Check Valve—Pump Inlet
	8	P-6855	Gasket—By-Pass Jet
	10	P-17402	Idle Needle Valve
	11	P-15481	Spring—Idle Needle Valve
	12	P-17004	Metering Jet—.067" (VAR.)
	13	P-20877	Main Disch. Jet No. 28 (NOT VAR.)
	14	P-17486	Float with Lever
	15	P-10666	Gasket—Float Needle Valve Seat
	17	P-19383	Gasket—Main Body
	18	P-17007	Idle Tube—No. 70 (NOT VAR.)
	19	P-18130	Plug—Main Disch. Jet
	20	P-60308	Gasket—Main Disch. Jet Plug
	21	P-8838	Lockwasher—Main Body Attach. Screw
	22	P 18772	Lead Ball
	23	P-18125	Screw—Fulcrum—Float Lever
	24	P-16960	Spring—Pump Piston Leather Expansion
	27	P-19339	Screw—Main Body Attach.
	28	P-15456	Screw—Throttle Stop
	29	P-15831	Spring—Throttle Stop Screw
	30	P-19386	Throttle Lever and Stem
	31	P-5436	Throttle Valve (20°) (VAR.)
	32	P-16716	Screw—Throttle Valve Attach.
	40	P-4522	Screw—Choke Valve Attach.
	41	P-20664	Choke Valve
	44	P-20683-T	Main Body—1-5/16" Venturi No. 70 H. S. Bleeder (VAR.)
	45	P-20645	Throttle Body No. 56-58 Idle Holes No. 50 Spark Hole (VAR.)
		P-19370	Throttle Stop Pin
	46	P-20628	Pump Lever
	47	P-19165	Pump Rod
	51	P-20203	Pump Link
	52	P-19374	Cotter Pin—Pump Link
	53	P-1791	Lockwasher—Pump Lever Nut
	54	P-2290	Nut—Pump Lever
	55	P-18126	Nozzle—Pump Disch.—No. 64 (VAR.)
	56	P-18135	Nut—Pump Rod
	57	P-4	Cotter Pin—Pump Rod Nut
	58	P-19367	Rod—Fast Idle
	59	P-19369	Lever—Fast Idle
	60	P-12400	Washer—Fast Idle Lever
	61	P-21338	Cotter Pin—Fast Idle Lever Washer
	62	P-7170	Cotter Pin—Fast Idle Rod
	63	P-20655	Stem—Choke Valve
	64	P-4735	Washer—Choke Stem
	65	P-20657	Assy.—Choke Lever and Screw
		P-20658	Choke Lever
		P-18300	Choke Lever Clamp Screw
		P-18299	Choke Lever Clamp Screw Nut
	66	P-3881	Pin—Choke Stem—Separator
	67	P-17081	Collar—Choke Stem
	68	P-16161	Set Screw—Choke Stem Collar
	69	P-18124-F	Float Cover
	70	P-17778	Gasket—Float Cover
	71	P-2866	Screw—Float Cover Attach.
	72	P-12167	Lockwasher—Float Cover Attach. Screw
	73	P-15477	Idle Air Bleeder—No. 56 (VAR.)
	74	P-15459	Plug—Idle Channel—¼"
	75	P-21053	Plug—Pump Disch. Channel
	76	P-6387	Plug—Idl Disch. Hole No. 10-32
	77	P-19384	Insulator—Main Body

NOTE—For parts marked (VAR.) size must be specified when ordering.

BENDIX PRODUCTS DIVISION
SOUTH BEND **OF BENDIX AVIATION CORPORATION** **INDIANA**

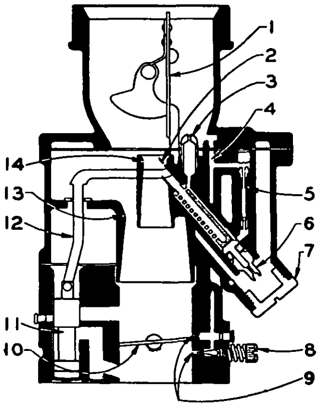
STROMBERG "AA-25" CARBURETOR

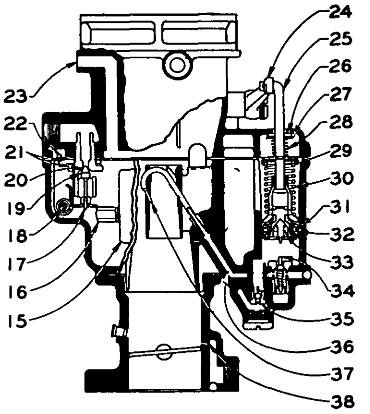
STROMBERG NO A 18492 (CODE NO 102 4A) CORD SYMBOL J 10566

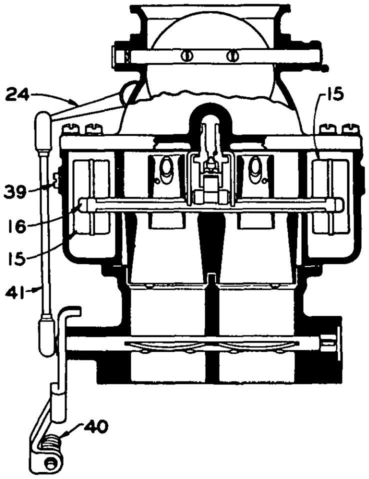
SIZE: 1¼" DUAL D. D. 4 HOLE FLANGE

1937
CORD
MODEL
"812"
SUPERCHARGED
3½"x4¾"—8 cyl.

PARTS ILLUSTRATED







1 Choke Valve
2 Main Discharge Jet
3 High Speed Bleeder
4 Idle Air Bleeder
5 Idle Tube
6 Main Metering Jet
7 Main Discharge Jet Plug
8 Idle Needle Valve
9 Idle Discharge Holes
10 Throttle Valve
11 Automatic Choke Piston
12 Vacuum Piston Link
13 Primary Venturi
14 Auxiliary Venturi
15 Float
16 Float Lever
17 Float Needle Valve Clip
18 Float Fulcrum Pin
19 Float Needle Valve
20 Float Needle Valve Seat
21 Float Hanger Gaskets
22 Float Hanger
23 Float Chamber Vent
24 Pump Fulcrum Arm
25 Pump Piston Link
26 Felt Dust Washer
27 Retainer Washer
28 Dust Washer Spring
29 Spring Retainer Washer
30 Pump Duration Spring
31 Pump Piston
32 Pump Expansion Spring
33 Pump Relief Valve
34 Power Pump By Pass Jet
35 Pump Inlet Check Valve
36 Pump Discharge Channel
37 Pump Discharge Nozzle
38 Spark Control Hole
39 Fuel Level Sight Plug
40 Throttle Stop Screw
41 Pump Rod

Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **5/8"** below top surface of float chamber (without gasket) or level with bottom of the level sight hole at 3 lbs pressure To correct fuel level, hold air horn in inverted position Place **Tool T-24971** on gasket Tops of floats should be level with tops of vertical guides which will give approximate fuel level change if necessary Sides of floats should be tangent to guides of tool without drag

MAIN METERING SYSTEM—Venturi 1⅛"; Main Discharge Jet **No. 28-36** P-22603 **(Tool T-24967):** High Speed Bleeder **No. 70** P-22369, Main Metering Jet **.057"** P 22660 **(Tool T-24924); (Tool T-19099)** used to remove main jet plug, Main Metering System controls the flow of fuel up to approximately 70 to 75 M P H

POWER SYSTEM—Combination Power and Pump By-Pass Jet **2 No. 55** P-22898 Pump piston to rest on seat of by-pass jet (less over-travel) with throttle valve opened **21/64" + — 1/64"** (measure with shank end of **21/64"** drill) adjust by bending pump fulcrum arm at ball joint end The Power Jet is brought into action at approximately 70 to 75 M P H

ACCELERATION—Pump Discharge Nozzles **No. 60;** Pump capacity **18** to **22** c c per 10 fast strokes and **18** to **22** c c per 10 slow strokes (Minimum setting) **(Tool T-24972)** Pump action takes place during acceleration period only

IDLE SYSTEM—Idle Discharge Holes **No. 54-55;** with throttle valve fully closed and **No. 55** drill in idle hole, edge of valve is located **.040"+ — .004"** from **No. 55** drill, Idle Air Bleed **No. 40** (in main body), Idle Tube **No. 70** P-19874 **Adjustment:** Adjust to smooth running one barrel at a time, OUT to make richer and IN to make leaner Throttle at 6 M P H

DEFLOODER ADJUSTMENT—With throttle held in wide open position, choke valve should be open so that a **7/32"** drill can be placed between choke valve and air horn The amount of opening can be changed by bending the choke stem pin or deflooder rod

FLANGE GASKET—P-18165

SPECIAL TOOLS REQUIRED—T-24971 Float Gauge, T-24967 Main Discharge Jet Remover, T-24924 Main Metering Jet Wrench, T-24970 By-Pass Jet and Check Valve Tester, T 24972 Pump Capacity Burrette Gauge, T-24968 Handle, T-24733 Choke valve lever bending tool, T-19099 Main Jet Plug Screw Driver

MOTOR TUNE-UP DATA

SPARK PLUGS—.025".
Clean and adjust at regular intervals.

DISTRIBUTOR—.017".
Breaker gap set .017". Replace if necessary.

VALVES—Intake: .008".
Exhaust: .008". Engine hot.

IGNITION TIMING—Breaker contacts to open for No. 1 cylinder 5° B. T. D. C. (2 teeth on flywheel).

SERVICE RECOMMENDATION — Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

GENERAL DESCRIPTION AND ADJUSTMENT OF AUTOMATIC CHOKE CONTROL

In the Stromberg Model AA 25 carburetor the automatic choke control is built completely into the carburetor The principle of operation is the same as that used on the previous Cadillac models The tension of the thermostat is controlled by an electric heat unit connected directly to the choke valve stem making the entire unit intact The vacuum piston used to open the choke valve, when the engine begins to fire, is also built into the body In the Model "AA 25" carburetor the fast idle feature which supplies fuel during cranking period and keeps the engine from stalling while warming up, is accomplished by a passage entering the throttle barrel below the throttle valve to feed the additional fuel with closed throttle This design eliminates all external parts and adjustments used in the previous method of fast idle Figs 1 4 show the automatic choke control and fast idle in the various stages of operation

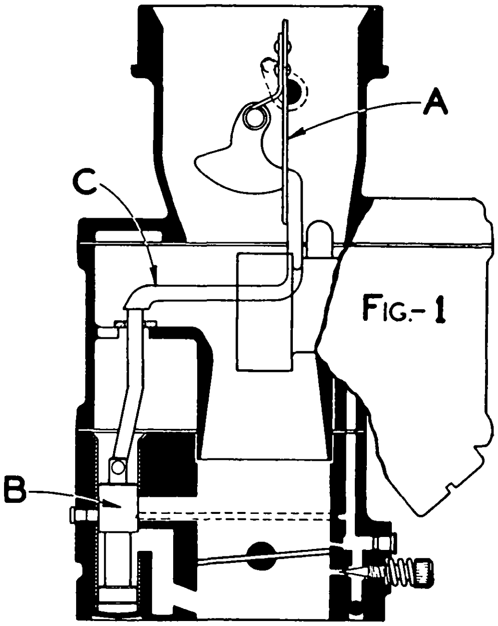


FIG.-1

CHOKE OPEN — SLOW IDLE — ENGINE HOT

Fig 1 shows the choke valve A in wide open position which it will be when a hot motor is stopped In this illustration the carburetor is shown at slow or curb idle which should be adjusted by the throttle stop screw at 8 M P H with a hot engine and is the only adjustment required for the slow and fast idling of the engine

Vacuum piston B shown in the "lower' position, is connected to the choke valve by link C In addition to the piston opening the choke valve, it also controls the duration of the fast idle period The thermostat is connected to the carburetor choke valve stem

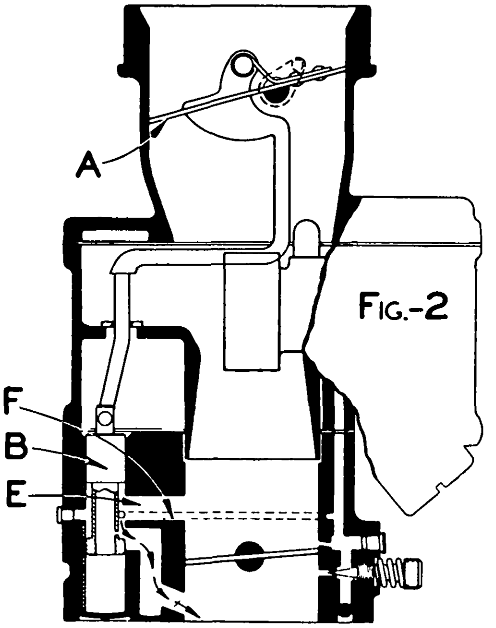


FIG.-2

CHOKE CLOSED — FAST IDLE

As the engine becomes cold, the thermostat also cools and gradually gains tension to close choke valve "A" With this movement, vacuum piston "B' is raised opening fast idle passage "E' so that air is drawn through 'E" during the fast idle period The suction of the air draws fuel from passage "F' to supply the additional fuel for the fast idle During the cranking of the engine the choke valve remains in the position shown in Fig 2

CHOKE PARTIALLY OPEN — ENGINE FIRING — FAST IDLE

As the engine begins to fire and a manifold vacuum is created vacuum piston 'B is pulled down to the position where the upper side hole in the piston is exposed to air taken through passage E stopping the pull on the piston With this action the choke valve opens slightly to admit sufficient air for running The air flowing through passage E draws fuel from passage F for the fast idle mixture

ADJUSTING The pull of the vacuum piston should be set in accordance with the choke valve opening Remove drive plug from channel F and insert shank end of a new No 34 Drill (111) The choke valve should be opened until the piston comes to rest on the No 34 drill In this position the choke valve should be opened so that a **19/64** drill can be placed between the valve and the air horn **Tool T 24733** can be used to change the opening by bending the lever between the choke valve and the piston link

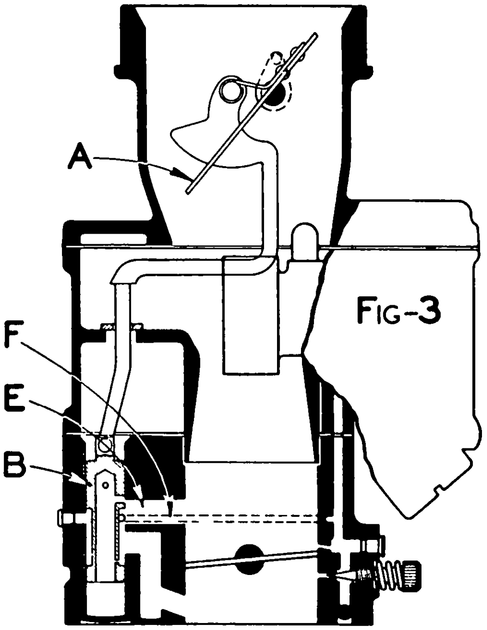


Fig-3

ENGINE WARM — SLOW IDLE

The choke valve in the carburetor being off center continues to open by the force of the inrushing air which works against the tension of the thermostat until the thermostat absorbs sufficient heat so that it will not offer any resistance As the choke valve A opens it allows the vacuum piston B to lower until the piston closes passage E cutting off the supply of air and gas used for fast idle Fuel is then only taken through the regular idle discharge holes N

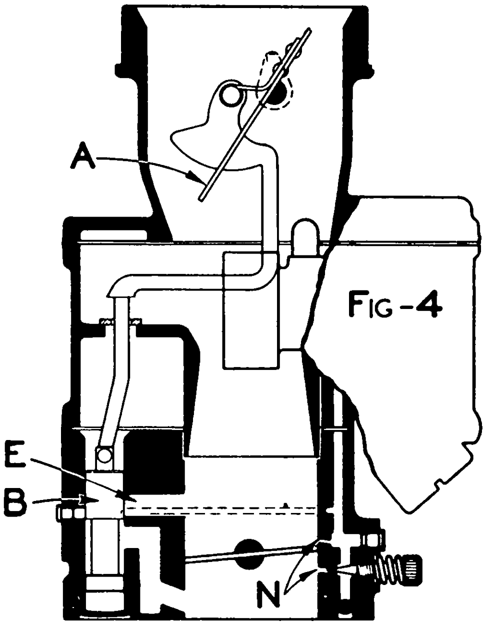


Fig-4

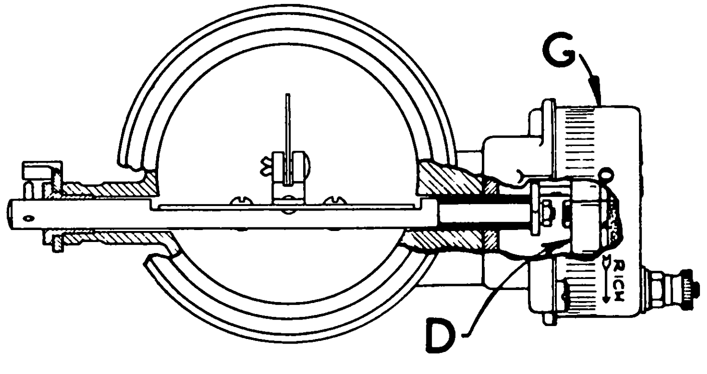
ADJUSTING THERMOSTAT

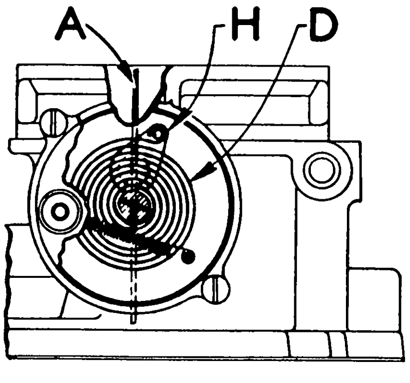
1 Remove thermostat case G allowing thermostat D to cool or warm until it has reached the temperature of 70° THIS IS VERY IMPORTANT

2 When the thermostat reaches 70 the inside of hook H of the thermostat should coincide with the zero marking on the thermostat case which is the original setting made at the factory When installing a new thermostat or other new parts check the zero location very carefully at 70° temperature and change the location if necessary If it is impossible for the thermostat to reach 70° you can provide for the difference by allowing one graduation on thermostat case for every 5° variation in temperature of the thermostat

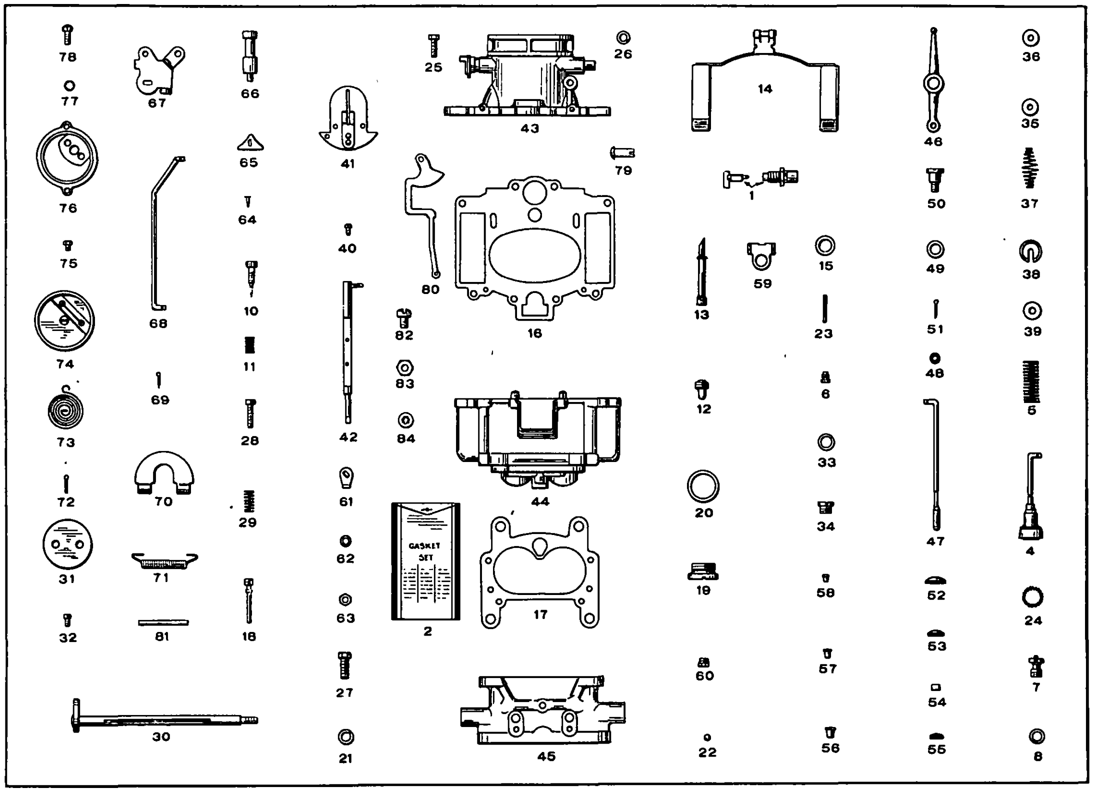
3 To adjust thermostat reassemble case onto the air horn so that hook H comes into contact with pin on the lever without any tension and with choke valve A in wide open position The zero marking on the case will then coincide with the notch on the air horn

4 Revolve thermostat case **fifteen** notches rich as indicated by the arrow and fasten screws securely





STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No.	Part No.	Part Name
	1	**P-23103**	Float Needle Valve, Seat & Clip—.130" **(NOT VAR.)**
	2	**J-4783-G**	Complete Gasket Set
	4	**P-22612**	Pump Piston and Link . **(Includes P-21568 Spring)**
	4-A	**P-22646**	Pump Piston, Link and Spring (Complete)
	5	**P-19458**	Spring—Pump duration
	6	**P-18144**	Check Valve—Pump Inlet
	7	**P-22898**	Power-By-Pass Jet 2 No. 55 **(NOT VAR.)**
	8	**P-19448**	Gasket—By-Pass Jet
	10	**P-15478**	Idle Needle Valve
	11	**P-18710**	Spring—Idle Needle Valve
	12	**P-22660**	Metering Jet **.057"** **(VAR.)**
	13	**P-22603**	Main Discharge Jet No. 28-36 **(NOT VAR.)**
	14	**P-22433**	Float with Lever
	15	**P-2885**	Gasket—Float Needle Valve Seat
	16	**P-22451**	Gasket—Air Horn
	17	**P-22427**	Gasket—Main Body
	18	**P-19874**	Idle Tube
	19	**P-21767**	Plug Main Disch. Jet
	20	**P-22851**	Gasket—Main Disch. Jet Plug
	21	**P-3157**	Lockwasher—Main Body Attach. Screw
	22	**P-18772**	Lead Ball
	23	**P-22439**	Pin—Fulcrum—Float Lever
	24	**P-21568**	Spring—Pump Piston Leather Expansion
	25	**P-2475**	Screw—Air Horn Attach.
	26	**P-6668**	Lockwasher—Air Horn Attach. Screw
	27	**P-13041**	Screw—Main Body Attach.
	28	**P-18288**	Screw—Throttle Stop
	29	**P-15831**	Spring—Throttle Stop Screw
	30	**P-22893**	Throttle Stem and Lever
	31	**P-22752**	Throttle Valve—(5°) **(NOT VAR.)**
	32	**P-16716**	Screw—Throttle Valve Attach.
	33	**P-7338**	Gasket—Check Valve Plug
	34	**P-19716**	Plug—Check Valve
	35	**P-17380**	Washer Felt
	36	**P-17060**	Washer—Splash—Pump Link
	37	**P-22643**	Spring—Packing Retainer
	38	**P-22045**	Washer—Horseshoe
	39	**P-22046**	Washer—Spring Retainer
	40	**P-4522**	Screw—Choke Valve Attach.
	41	**P-23095**	Choke Valve
	42	**P-23093**	Assy—Choke Stem
		P-22642	Pin—Choke Stem
	43	**P-23092-A**	Air Horn
		P-21045	Choke Stem Bushing
		P-17996	Loose Lever Bushing
		P-22550	Loose Lever
	43-A	**P-23091**	Air Horn and Valve (Complete) with thermostat Housing

NOTE—For parts marked (VAR.) size must be specified when ordering.

Bin Location	Key No.	Part No.	Part Name
	44	**P-22902**	Assy.—Main Body **1-⅛"** Vent **No. 70** High Speed Bleeder **No. 40** Idle Air Bleeder **No. 60** Pump Disch. Tubes **(VAR.)**
		P-22900	Pump Disch. Tube (Left) No. 60 **NOT VAR.)**
		P-22901	Pump Disch. Tube (Right) No. 60 **NOT VAR.)**
		P-19430	Pump Tube Wedge
		P-22369	High Speed Bleed **No. 70** **(VAR.)**
	45	**P-22896**	Assy.—Throttle Body **No. 54-55** Idle Discharge Holes **(VAR.)**
		P-14017	Throttle Stop Block
	46	**P-22430**	Pump Lever
	47	**P-22620**	Pump Rod
	48	**P-9394**	Washer—Pump Rod
	49	**P-19820**	Washer—Pump Lever Fulcrum Screw Spring
	50	**P-20611**	Screw—Pump Lever Fulcrum
	51	**P-7170**	Cotter Pin—Pump Rod and Link
	52	**P-20782**	Plug—Vac. Piston Channel
	53	**P-8495**	Plug—Expansion .312 Main Body
	54	**P-20884**	Plug—Vac. Piston Channel ¼"
	55	**P-21054**	Plug—Vac. Piston Channel
	56	**P-15459**	Plug—Idle Disch. Drilling Hole ¼"
	57	**P-15458**	Plug—Idle Disch. Holes No. 10
	58	**P-15457**	Plug—Vac. Piston Channel No. 6
	59	**P-22441**	Float Hanger
	60	**P-6406**	Plug—Fuel Level Sight—No. 5/16-24
	61	**P-22852**	Thermostat Lever
	62	**P-15875**	Lockwasher—Thermostat Lever Attach. Nut
	63	**P-16571**	Nut—Thermostat Lever Attach.
	64	**P-20973**	Rivet—Vacuum Piston
	65	**P-22657**	Cover—Vacuum Piston Link
	66	**P-22586**	Vacuum Piston
	67	**P-22892**	Throttle Lever
	68	**P-22556**	Rod—Deflooder
	69	**112-S-1**	Cotter Pin—Deflooder Rod
	70	**P-23098**	Valve—Choke Hinge
	71	**P-23101**	Spring—Choke Valve
	72	**P-4**	Cotter Pin—Thermostat
	73	**P-21507**	Thermostat
	74	**P-21515**	Assy.—Thermostat Unit
	75	**P-21596**	Screw Thermostat Unit Attach.
	76	**P-21009**	Housing—Thermostat Unit
	77	**P-15346**	Lockwasher—Housing Attach. Screw
	78	**P-12016**	Screw—Thermostat Housing Attach.
	79	**P-22579**	Pin—Fast Idle Link Fulcrum
	80	**P-23099**	Link—Fast Idle Piston
	81	**P-23100**	Pin—Choke Valve Hinge Stop
	82	**P-506**	Screw—Choke Valve Stop
	83	**P-9284**	Nut—Choke Valve Stop Screw
	84	**P-21029**	Lockwasher—Choke Valve Stop Screw Nut

BENDIX PRODUCTS DIVISION

South Bend **Of Bendix Aviation Corporation** Indiana

Printed in U. S. A

STROMBERG "EE-15" CARBURETOR

STROMBERG NO. A-18101 (CODE NO. 102-2A) CORD SYMBOL J-10502

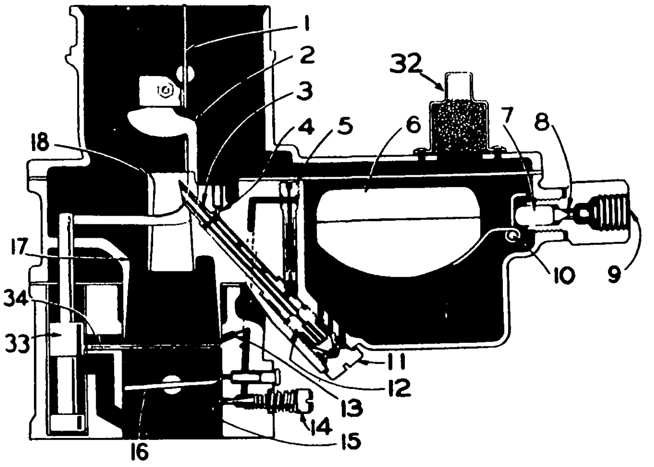
SIZE: 1" DUAL D. D. 4-HOLE FLANGE

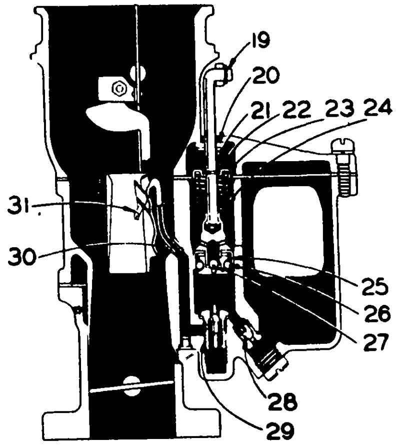
1936-37
CORD

MODEL
"810"
3½"x3¾"—8 cyl.

PARTS ILLUSTRATED

1 Choke Valve
2 Vacuum Piston Link
3 Main Discharge Jet
4 High Speed Bleeder.
5. Idle Tube
6 Float
7 Float Needle Valve
8 Float Needle Valve Seat
9 Gasoline Inlet
10 Float Fulcrum Pin
11 Main Discharge Jet Plug
12 Main Metering Jet
13 Idle Air Bleeder
14 Idle Needle Valve
15 Idle Discharge Holes
16 Throttle Valve
17 Primary Venturi
18 Auxiliary Venturi
19 Pump Piston Link
20 Dust Washer
21 Dust Washer Spring
22 Spring Retainer Lock
23 Spring Retainer Washer
24 Pump Duration Spring
25 Pump Piston
26 Pump Piston Expansion Spring
27 Pump Relief Valve
28 Pump Inlet Check Valve





29 Power & Pump By-Pass Jet
30 Pump Discharge Nozzle Holder
31 Pump Discharge Nozzle
32. Float Chamber Vent
33. Automatic Choke Piston
34. Fast Idle Air Passage

Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **15/32"** below top surface of float chamber (without gasket) at 3 lbs. pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level.)

MAIN METERING SYSTEM—Venturi **1-1/32"**; Main Discharge Jet **No. 32-36** P-20853 **(Tool T-24967)**; High Speed Bleeder **No. 65** (in body); Main Metering Jet **.050"** P-19442 **(Tool T-24924)**. Use **Tool T-19099** to remove Main Jet Plug; Main Metering System controls the flow of fuel up to approximately 65 to 70 M. P. H.

POWER SYSTEM—Combination Power and Pump By-Pass Jet **No. 57** P-20854. Pump piston to rest on seat of by-pass jet (less over-travel) with throttle valve opened **21/64" + — 1/64"** (measure with shank end of **21/64"** drill) adjust by bending pump fulcrum arm at ball joint end; the Power Jet is brought into action at approximately 65 to 70 M. P. H.

ACCELERATION — Pump Discharge Nozzles **No. 65**; Pump capacity **11** to **15** c.c. per 10 fast strokes and **17** to **21** c.c. per 10 slow strokes; use **Tool T-24972.** Pump action takes place during acceleration period only.

IDLE SYSTEM—Idle Discharge Holes **No. 56-60** with throttle valve fully closed and **No. 60** drill in idle hole, edge of valve is located **.030" + — .004"** from **No. 60** drill; Idle Air Bleed **No. 42** (in main body); Idle Tube **No. 70** P-21778. **Adjustment:** Adjust to smooth running, one barrel at a time, OUT to make richer and IN to make leaner. Throttle at 7 to 8 M. P. H

FLANGE GASKET—P-21990

SPECIAL TOOLS REQUIRED—T-24733 Float Adjuster; T-24967 Main Discharge Jet Remover; T-24924 Main Metering Jet Wrench; T-24970 By-Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burrette Gauge; T-24968 Handle; T-19099 Main Jet Plug Screw Driver.

MOTOR TUNE-UP DATA

SPARK PLUGS—.025".
Clean and adjust at regular intervals.

DISTRIBUTOR—.017".
Breaker gap set .017".
Replace if necessary.

VALVES—Intake: .008".
Exhaust: .008". **Engine hot.**

IGNITION TIMING—Breaker contacts to open for No. 1 cylinder 5° B. T. D. C. (2 teeth on flywheel).

SERVICE RECOMMENDATION — Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

GENERAL DESCRIPTION AND INSTRUCTIONS OF AUTOMATIC CHOKE CONTROL

In the Stromberg Model "EE-15" carburetor the automatic choke control is built completely into the carburetor The principle of operation is the same as that used on the previous Cord models with the exception that the tension of the thermostat is controlled by an electric heat unit instead of using the heat of the exhaust gas The vacuum piston used to open the choke valve, when the engine begins to fire, is also built into the body In the design there is also incorporated a semi-manual control, by which the choke valve may be manually closed or part way opened by the operator if so desired In the Model 'EE 15" carburetor the fast idle feature which supplies fuel during cranking period and keeps the engine from stalling while warming up, is accomplished by a passage entering the throttle barrel below the throttle valve to feed the additional fuel with closed throttle This design eliminates all external parts and adjustments used in the previous method of fast idle Figs 1-4 show the automatic choke control and fast idle in the various stages of operation

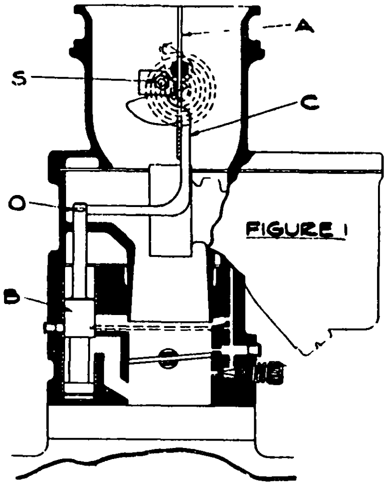


FIGURE 1

CHOKE OPEN — SLOW IDLE — ENGINE HOT

Fig 1 shows the choke valve "A" in wide open position which it will be when a hot motor is stopped In this illustration the carburetor is shown at slow or curb idle, which should be adjusted by the throttle stop screw at 6 m p h with a hot engine and is the only adjustment required for the slow and fast idling of the engine

Vacuum piston B shown in the lower position is connected to the choke valve by link "C" In addition to the piston opening the choke valve, it also controls the duration of the fast idle period The thermostat is connected to the carburetor choke valve stem

CAUTION-- *To remove air horn proceed as follows* Remove air horn and float chamber cover screws Raise the entire assembly so that pin O' is brought to the gasket surface where it can be removed DO NOT TAMPER WITH NUT "S" AS THIS IS SET AT THE FACTORY AND SHOULD NOT BE CHANGED When re-assembling, make certain that pin is fastened securely.

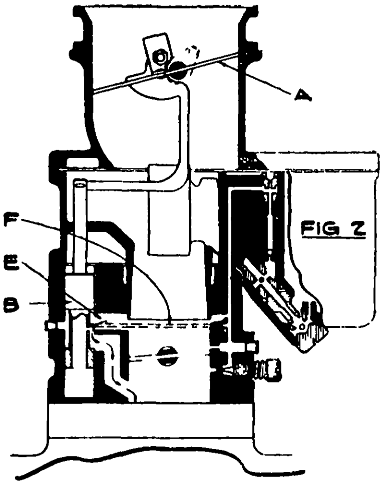


FIG 2

CHOKE CLOSED — FAST IDLE

As the engine becomes cold, the thermostat also cools and gradually gains tension to close choke valve "A". With this movement, vacuum piston "B" is raised opening fast idle passage "E' so that air is drawn through "E" during the fast idle period, following the path of the arrow The suction of the air draws fuel from passage "F" to supply the additional fuel for the fast idle During the cranking of the engine the choke valve remains in the position shown in Fig 2

CHOKE PARTIALLY OPEN — ENGINE FIRING — FAST IDLE

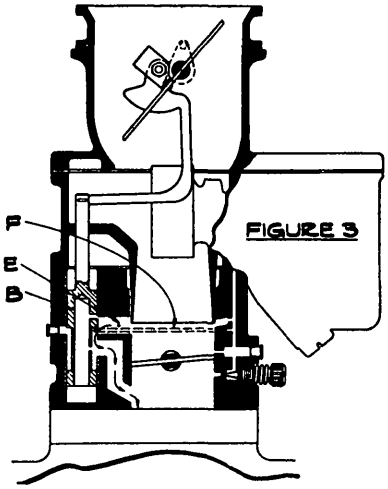


FIGURE 3

As the engine begins to fire and a manifold vacuum is created, vacuum piston "B" is pulled down to the position where the upper side hole in the piston is exposed to air taken through passage "E", stopping the pull on the piston With this action the choke valve opens slightly to admit sufficient air for running The air flowing through passage "E" draws fuel from passage "F" for the fast idle mixture

ADJUSTING—The pull of the vacuum piston should be set in accordance with the choke valve opening Remove drive plug from channel "F" and insert shank end of new **No. 34** drill (.111") The choke valve should then be opened until the piston comes to rest on the **No. 34** drill In this position the choke valve should be opened so that a **3/8"** drill can be placed between the valve and the air horn Change of position can be made by loosening the nut between the lever and the link

ENGINE WARM — SLOW IDLE

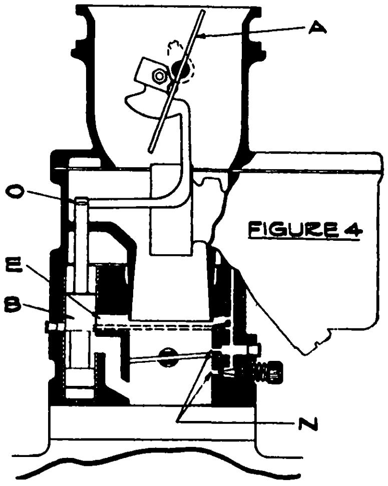
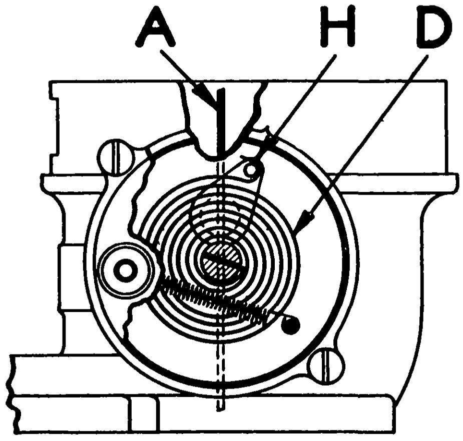
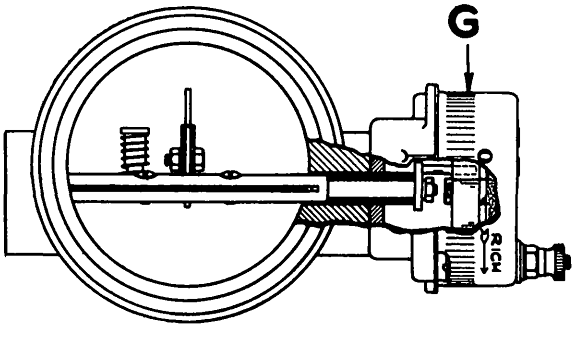


FIGURE 4

The choke valve in the carburetor being off center continues to open by the force of the inrushing air, which works against the tension of the thermostat until the thermostat absorbs sufficient heat so that it will not offer any resistance As the choke valve "A" opens, it allows the vacuum piston "B" to lower until the piston closes passage "E" cutting off the supply of air and gas used for fast idle Fuel is then only taken through the regular idle discharge holes "N





ADJUSTING THERMOSTAT

To adjust thermostat refer to illustrations above

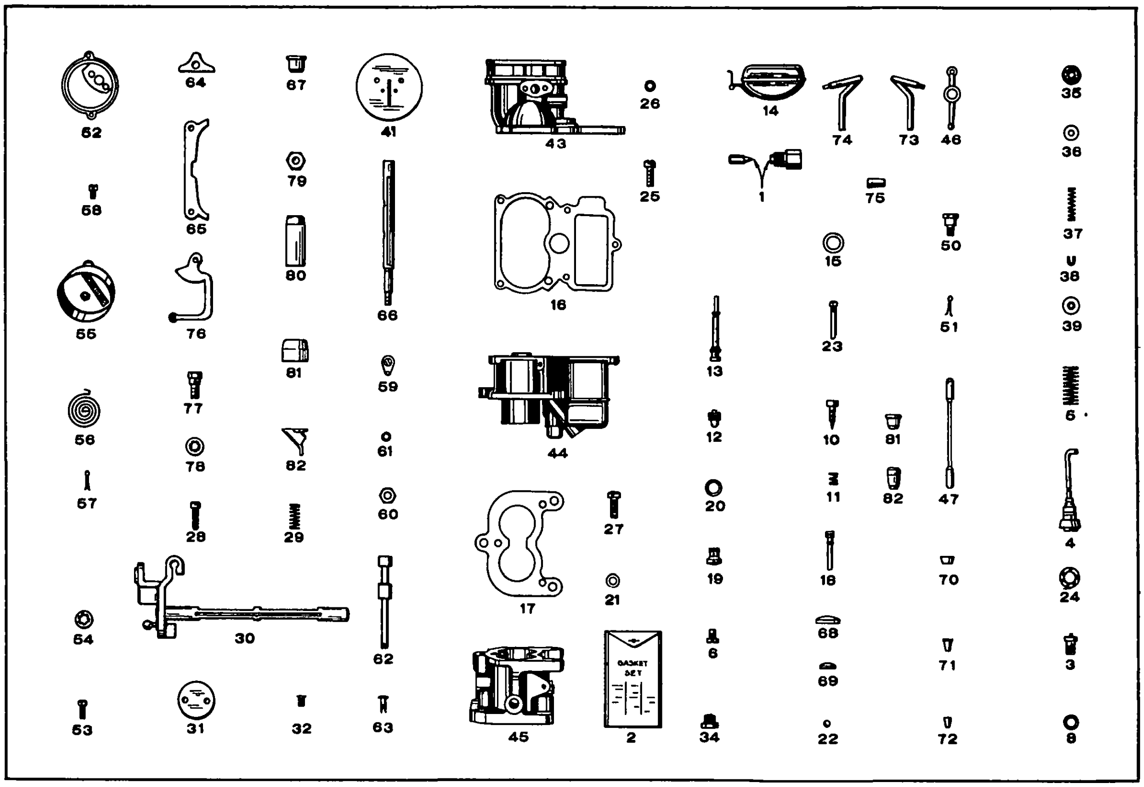
1 Remove thermostat case "G", allowing thermostat "D" to cool or warm until it has reached the temperature of 70°. THIS IS VERY IMPORTANT

2 When the thermostat reaches 70°, the inside of hook "H" of the thermostat should coincide with the "zero" marking on the thermostat case, which is the original setting made at the factory When installing a new thermostat or other new parts, check the zero location very carefully at 70° temperature and change the location if necessary If it is impossible for the thermostat to reach 70°, you can provide for the difference by allowing one graduation on thermostat case for every 5° variation in temperature of the thermostat

3 To adjust thermostat, reassemble case onto the air horn so that hook "H" comes into contact with pin on the lever without any tension and with choke valve "A" in wide open position The zero marking on the case will then coincide with the notch on the air horn.

4 Revolve thermostat case **seventeen** notches rich as indicated by the arrow and fasten screws securely.

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No.	Part No.	Part Name
	1	P 19867	Float Needle Valve and Seat—113' (NOT VAR.)
	2	J-4540 G	Complete Gasket Set
	3	P-20854	Power By Pass Jet No 57 (NOT VAR.)
	4	P-19486	Pump Piston and Link (Includes P-16960)
	4 A	P 19525	Pump Piston—Link & Spring (Complete)
	5	P-19526	Spring—Pump Duration
	6	P-18144	Check Valve—Pump Inlet
	8	P-19448	Gasket—By Pass Jet
	10	P-17402	Idle Needle Valve
	11	P 15481	Spring—Idle Needle Valve
	12	P-19442	Metering Jet .050" (VAR.)
	13	P 20853	Main Disch Jet No 32 36 (NOT VAR.)
	14	P 19825	Float with Lever
	15	P 10666	Gasket—Float Needle Valve Seat
	16	P 19428	Gasket—Air Horn
	17	P 20828	Gasket—Main Body
	18	P-21778	Idle Tube
	19	P 19441	Plug—Main Disch Jet
	20	P-7338	Gasket—Main Disch Jet Plug and Check Valve Plug
	21	P 3157	Lockwasher—Main Body Attach Screw
	22	P 18772	Lead Ball
	23	P-18125	Screw—Fulcrum—Float Lever
	24	P 16960	Spring—Pump Piston Leather Expansion
	25	P-3199	Screw—Air Horn Attach
	26	P 1791	Lockwasher—Air Horn Attach Screw
	27	P 709	Screw—Main Body Attach
	28	P 19103	Screw—Throttle Stop
	29	P 15831	Spring—Throttle Stop Screw
	30	P-20462	Throttle Lever and Stem
		P 19509	Ball Joint Connector
	31	P-19435	Throttle Valve (5°) (VAR.)
	32	P-4522	Screw—Throttle Valve Attach
	34	P-19716	Plug—Check Valve
	35	P-17380	Packing—Felt
	36	P-17060	Washer—Splash—Pump Link
	37	P-19488	Spring—Packing Retainer
	38	P-19459	Washer—Horseshoe
	39	P 19460	Washer—Spring Retainer
	41	P 20759	Choke Valve
	*43	*P 21049	Assy—Air Horn
	43 A	P 21975	Air Horn and Valve (Complete)

NOTE—For parts marked (VAR.) size must be specified when ordering.

Bin Location	Key No.	Part No.	Part Name
	44	P-22067	Main Body **1-1/32"** Venturi **No. 65** High Speed Bleeder **No. 65** Pump Disch Tubes **No. 42** Idle Air Bleeder (VAR.)
	45	P 21974	Throttle Body **No. 56-60** Idle Disch Holes (VAR.)
	46	P 19533	Pump Lever
	47	P 19420	Pump Rod
	*50	*P 20611	Screw—Pump Lever Fulcrum
	51	P 7170	Cotter Pin—Pump Link
	52	P 21009 T	Housing Thermostat Unit
	53	P 12016	Screw—Thermostat Housing Attach
	54	P 15346	Lockwasher—Thermostat Housing Attach Screw
	55	P 22096	Assy Thermostat Unit
	56	P 22063	Thermostat
	57	P 4	Cotter Pin
	58	P 21596	Screw Thermostat Unit Attach
	59	P 22852	Lever—Thermostat
	60	P 16571	Nut Thermostat Lever Attach
	61	P 15875	Lockwasher—Thermostat Lever Attach Screw
	62	P 21057	Piston Vacuum
	63	P 20973	Rivet—Vacuum Piston
	64	P 23106	Cover—Vacuum Piston Channel
	65	P 20951	Baffle Plate
	66	P 21976	Stem—Choke
	67	P 20454	Plug—Vacuum Piston Channel 17/64"
	68	P 20782	Plug—Vacuum Piston Channel 17/32"
	69	P 21054	Plug—Vacuum Piston Channel 17/64"
	70	P 20884	Plug—Vacuum Piston Channel 1/4"
	71	P 15458	Plug—Idle Disch Hole No 10
	72	P 15457	Plug—Vacuum Piston Channel No 6
	73	P 20435	Pump Discharge Tube (Right) No 65 (NOT VAR.)
	74	P 20436	Pump Discharge Tube (Left) No 65 (NOT VAR.)
	75	P 19430	Wedge—Pump Disch Tube
	76	P 20760	Vacuum Piston Lever (Choke Valve)
	77	P-20882	Screw—Fulcrum—Vacuum Piston Lever (Choke Valve)
	78	P 9283	Nut—Fulcrum Screw (Choke Valve)
	79	P 20883	Lockwasher—Fulcrum Screw Nut (Choke Valve)
	80	P 21045	Bushing—Choke Stem (Right)
	81	P 21044	Bushing—Choke Stem (Left)
	82	P 20608	Float Chamber Vent

*When replacing air horn P 21049 be sure to use
P-20611 (Left Hand Thread) Pump Lever Fulcrum Screw
P-19433 Pump Lever Fulcrum Screw (Right Hand Thread)

BENDIX PRODUCTS DIVISION
SOUTH BEND **OF BENDIX AVIATION CORPORATION** **INDIANA**

Printed in U S A

STROMBERG CARBURETOR

Parts and Technical Information

DESOTO

Equipment No.	Type	Year	Models
J-5487	BXUV-3	1933-38	SD, SE, SF, SG, S-1, S-2, S-3

Use Standard A-19103 BXUV-3 Carburetor Parts except—

Use P-10641 Throttle Lever (Key No. 71) in place of P-23215

For complete Technical and Parts information refer to Standard Section BXUV-3 Carburetor—Form 10C-633

Equipment No.	Type	Year	Models
J-5486	BXUV-35	1933-38	SD, SE, SF, SG, S-1, S-2, S-3

Use Standard A-19113 BXUV-35 Carburetor Parts except—

Use P-10641 Throttle Lever (Key No 73) in place of P-23215

For complete Technical and Parts information refer to Standard Section BXUV-35 Carburetor—Form 10C-634

Equipment No.	Type	Year	Models
J-5488	BXV-3	1937-38 (Sisson Choke)	6

Use Dodge A-18083 BXV-3 Carburetor Parts except—

Use P-24287 Pump Duration Spring (Key No. 5) in place of P-24102
P-19442 060″ Metering Jet (Key No. 12) in place of P-19442 .058″
P-24268 .060″ Adjustable Metering Jet in place of P-23902 (Key No. 19) Plug
Extra parts not illustrated—P-17481 Union Elbow

For complete Technical and Parts information refer to Dodge Section—Form 10C-538

Equipment No.	Type	Year	Models
J-5467	BXV-3	1939	S-6

Use Dodge A-18093 BXV-3 Carburetor Parts except—

Use P-19442 .060″ Metering Jet (Key No. 12) in place of P-19442 .058″
P-24268 .060″ Adjustable Metering Jet in place of P-23902 (Key No. 19) Plug
Extra Parts not illustrated—P-17481 Union Elbow

For complete Technical and Parts information refer to Dodge Section—Form 10C-538

Equipment No.	Type	Year	Models
J-5475	BXUV-35	1939	S-6

Use Standard A-19113 BXUV-35 Carburetor Parts except—

Use P-4764 Throttle Lever (Key No. 73) in place of P-23215

For complete Technical and Parts information refer to Standard Section BXUV-35 Carburetor—Form 10C-634

Equipment No.	Type	Year	Models
J-5489	BXV-3	1939 (Sisson Choke)	6

Use Dodge A-18073 BXV-3 Carburetor Parts except—

Use P-24287 Pump Duration Spring (Key No 5) in place of P-24102
P-19442 060″ Metering Jet (Key No 12) in place of P-19442 .058″
P-24268 060″ Adjustable Metering Jet in place of P-23902 (Key No 19) Plug
Extra Parts not illustrated—P-17481 Union Elbow

For complete Technical and Parts information refer to Dodge Section—Form 10C-538

BENDIX STROMBERG BULLETIN

IMPORTANT - READ CAREFULLY AND FILE TECHNICAL

BULLETIN No. S-3401-1941

DATE March 27, 1941

SUBJECT: Specifications for Carburetors on 1941 Dodge Fluid Drive Models BXVD-3 No. 380044 and BXVD-3 No. 380045 (export)

To: Stromberg Distributors, Associate Distributors, Dealers and Catalog Holders

In Parts Release and Change Notice No. 41-2D (Dodge) dated February 1, 1941, we sent you information on changes of specifications of the above BXVD-3 carburetors. On that date the changes went into effect in production units. The change was necessary because of complaints about economy which the Dodge factory had received on 1941 Fluid Drive cars. This change, and other items, which require checking in the vehicle in order to obtain the best possible economy, are covered in a bulletin direct to their dealers by the Dodge Division.

The Dodge Service Department desires to handle such occasional complaints through their dealers so they can keep a record of the units that are changed. Accordingly, we have supplied them with a quantity of sets of parts which are sent to their dealers upon application for same.

The changes involved are:

P-19442	Metering Jet .057"
#382675	Power By-Pass Jet #58
P-24201	Vacuum Piston Assembly

If economy complaints on the early model cars are brought to your attention, they should be referred to the Dodge Dealer so that the procedure outlined in their bulletin can be followed. Carburetor No. 380044 with Code No. 3-59B and 380045 (Export) with Code No. 3-60B have the latest specifications.

The BXV-3 carburetor installed on cars with the conventional type of transmission does not require any changes.

BENDIX PRODUCTS DIVISION

E. F. Wenzel

E. F. Wenzel
Service Sales Department

EFW/c
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STROMBERG "BXV-3" CARBURETOR

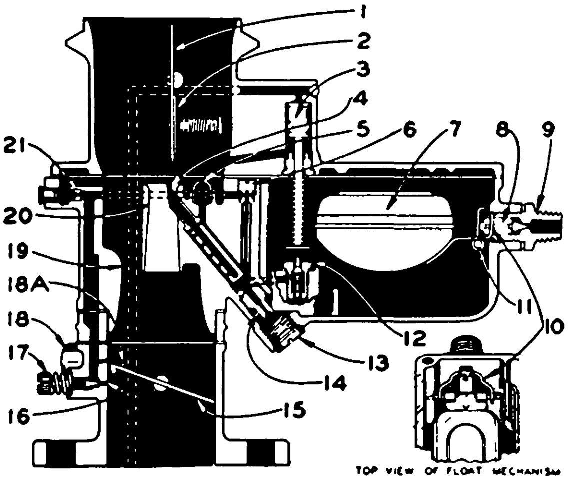
STROMBERG NO. 380079 (CODE NO. 3-65) DODGE SYMBOL NO 871554
(FOR USE WITH CONVENTIONAL GEAR SHIFT)

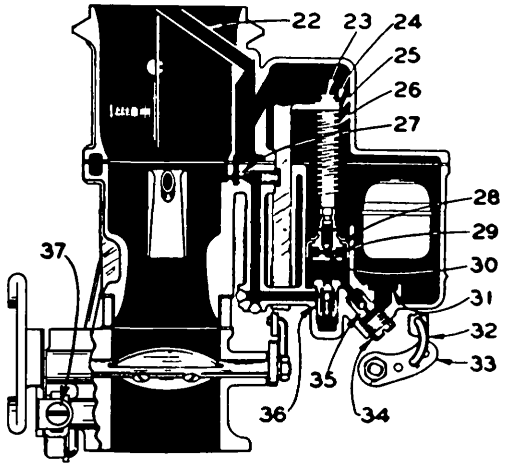
SIZE: 1-3/8" S.A.E. 2-15/16" FLANGE CENTERS

1942
DODGE
MODEL
D-22
3-1/4" x 4-3/8"—6 cyl.

PARTS ILLUSTRATED

1 Choke Valve
2 Choke Relief Valve
3 Vacuum Power Piston
4 Main Discharge Jet
5 High Speed Bleeder
6 Idle Tube
7 Float
8 Float Needle Valve
9 Float Needle Valve Seat
10 Float Fulcrum Pin Clip
11 Float Fulcrum Pin
12 Power By Pass Jet
13 Main Jet Plug
14 Main Metering Jet
15 Throttle Valve
16 Idle Dis Holes
17 Idle Needle Valve
18 Vacuum Spark Conn
18A Vacuum Spark Hole
19 Primary Venturi
20 Auxiliary Venturi
21 Idle Air Bleed
22 Float Chamber Vent
23 Piston Conn Rod
24 Cotter Pin
25 Pump Piston Rod





26 Pump Duration Spring
27 Pump Discharge Nozzle
28 Pump Piston
29 Pump Piston Exp Spring
30 Pump Relief Valve
31 Pump Inlet Strainer
32 Pump Link
33 Pump Lever
34 Pump Inlet Plug
35 Pump Inlet Check Valve
36 Pump By-Pass Jet
37 Throttle Stop Screw

Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **5/8"** below top surface of float chamber (without gasket) at 3 lbs. pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level).

MAIN METERING SYSTEM—Venturi **1-7/32"**; Main Discharge Jet **No. 28-36** 382897 (**Tool T-24967**); High Speed Bleeder **No. 68** P-24315, Main Metering Jet **.061"** P-19442 (**Tool T-24924**); (**Tool T-19099**) Screwdriver used to remove main jet plug. Main Metering system controls the flow of fuel up to approximately 65 to 70 M. P. H

POWER SYSTEM—Power By-Pass Jet **No. 55** P-23676, Power jet to come into operation at **4"** to **6"** of manifold vacuum, which is approximately 65 to 70 M. P. H. (**Tool T-24733**) used for removing P-24043 vacuum power piston.

ACCELERATION—Pump Discharge Reducer **No. 70** (in body), Pump By-Pass Jet **2 No. 56** P-24062, Pump capacity **11** to **14** c c per 10 slow strokes (middle adjustment) (**Tool T-24972** Pump Travel **1/4"** to **9/32"**; Pump action takes place during acceleration period only.

IDLE SYSTEM—Idle Discharge holes **Nos. 56-58**; with throttle valve fully closed and **No. 58** drill in idle hole, edge of valve is located **Flush** + **.006"** — **.000"** from **No. 58** drill, Idle Air Bleed **No. 54** (in main body) Idle Tube **No. 70** P-21778, **Adjustment:** Adjust to smooth running OUT to make richer and IN to make leaner, throttle at 6 M P. H

VACUUM SPARK CONTROL—With throttle fully closed and **2 No. 60** drills in spark hole, edge of valve is located **Flush** from both No 60 holes, **1 No. 60** hole drilled at random below throttle valve

FLANGE GASKET—P-24266.

SPECIAL TOOLS MENTIONED ABOVE CONTAINED IN TOOL KIT SER-459 SEE FORM 10-265A

MOTOR TUNE-UP DATA

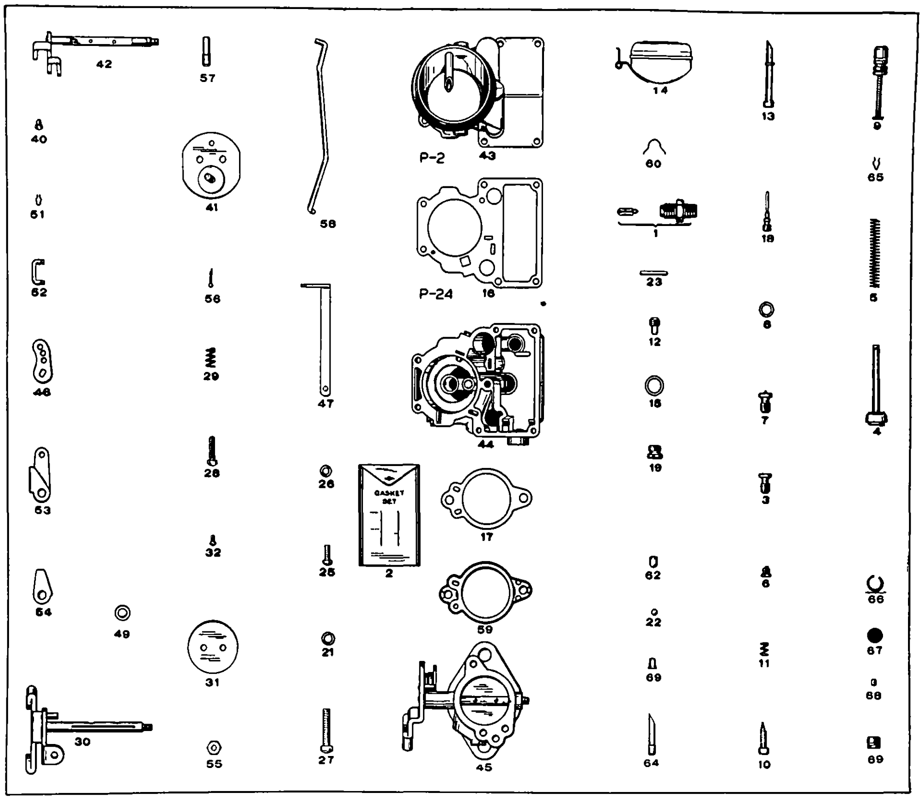
SPARK PLUG—.025".
Clean and adjust at regular intervals.

DISTRIBUTOR—.020".
Breaker gap set .020". Replace if necessary.

VALVES—Intake: .008"; Exhaust: .010".
Engine hot.

IGNITION TIMING—Breaker contacts to open for No. 6 cylinder at 2° A.T.D.C. when corresponding mark on impulse neutralizer is in line with pointer.

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that thermostat is properly position d.



SERVICE REPLACEMENT PARTS LIST

Repair Parts Kit No. RK-121

Bin Location	Key No.	Part No	Part Name
	1	**382901**	Float Needle Valve and Seat 093" **(NOT VAR)**
	2	**J-5968-G**	Complete Gasket Set
	3	**P-24062**	Pump By Pass Jet No 56 **(NOT VAR)**
	4	**P-24039**	Pump Piston and Stem **(Includes P-16960)**
	5	**P-24102**	Spring—Pump Duration
	6	**P-18144**	Pump Inlet Check Valve
	7	**P-23676**	Power By Pass Jet No 55 **(NOT VAR)**
	8	**P-19448**	Gasket—By Pass Jets
	9	**P-24043**	Vacuum Power Piston
	10	**P-15478**	Idle Needle Valve
	11	**P-15481**	Spring—Idle Needle Valve
	12	**P-19442**	Metering Jet— **061"** **(VAR)**
	13	**382897**	Main Discharge Jet No 28 36 **(NOT VAR)**
	14	**P-22081**	Float and Lever
	15	**P-10666**	Gakset—Float Needle Valve Seat
	16	**P-24624**	Gasket—Air Horn
	17	**P-24037**	Gasket—Main Body
	18	**P-21778**	Idle Tube
	19	**P-23902**	Plug—Main Discharge Jet
	21	**P-3157**	Lockwasher—Main Body Attaching Screw
	22	**P-18772**	Lead Ball
	23	**P-23272**	Pin—Fulcrum—Float Lever
	25	**P-3199**	Screw—Air Horn Attaching
	26	**P-1791**	Lockwasher—Air Horn Attaching Screw
	27	**P-22025**	Screw—Main Body Attaching
	28	**P-15456**	Screw—Idle Adj
	29	**P-15831**	Spring—Idle Adj Screw
	30	**382898**	Throttle Lever and Stem
	31	**P-24059**	Throttle Valve (20°) **(NOT VAR)**
	32	**P-4522**	Screw—Throttle Valve Attaching
	40	**P-22573**	Screw—Choke Valve Attaching

Bin Location	Key No.	Part No	Part Name
	41	**P-24046**	Choke Valve
	42	**382885**	Choke Lever and Stem
	43	**382919**	Air Horn
	44	**382909**	Assembly—Main Body **1-7/32'** Venturi No **68** H S Bleed No **54** Idle Air Bleed **(VAR)**
	45	**382911**	Assy —Throttle Body Nos **56-58** Idle Disch Holes and Vac Spark Holes **(VAR)**
	46	**P-21774**	Pump Lever
	47	**P-24837**	Pump Rod
	49	**P-19821**	Spring Washer—Pump Lever Fulcrum Screw
	51	**P-19374**	Cotter Pin—Pump Link
	52	**P-24836**	Pump Link
	53	**P-23621**	Lever—Fast Idle Cam
	54	**P-23622**	Cam—Fast Idle
	55	**P-2290**	Nut—Pump Lever Attaching
	56	**112-S-22**	Cotter Pin—Fast Idle Rod
	57	**P-24054**	Pin—Stop—Throttle Body
	58	**P-24060**	Fast Idle Rod
	59	**P-23857-T**	Spacer—Main Body (Insulator)
	60	**P-23273**	Spring—Float Fulcrum Pin
	61	**P-20470**	Idle Air Bleeder No 54 **(NOT VAR)**
	62	**P-24315**	High Speed Bleeder No 68 **(NOT VAR)**
	63	**P-15459**	Plug—Drive 1/4'
	64	**P-24045**	Vent Tube
	65	**P-21338**	Cotter Pin—Pump Stem
	66	**P-23271**	Spring Clip—Pump Strainer Screen
	67	**P-23270**	Screen—Pump Strainer
	68	**P-24067**	Reducer—Pump Discharge No 70 **(NOT VAR)**
	69	**P-24678**	Plug—Pump Check Valve Channel ⅜—24

NOTE—For parts marked (VAR) size must be specified when ordering.

BENDIX PRODUCTS DIVISION

SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

STROMBERG BXVD-3 CARBURETOR

STROMBERG NO 380080 (CODE NO 3-66) DODGE SYMBOL NO 871866
(FOR USE WITH FLUID DRIVE)

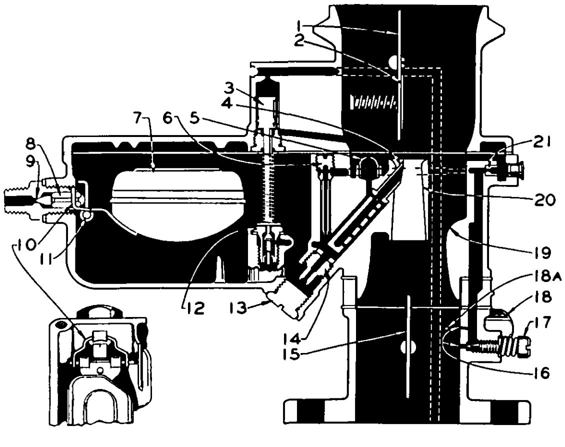
SIZE 1 3/8 D D S A E 2 15/16′ FLANGE CENTERS

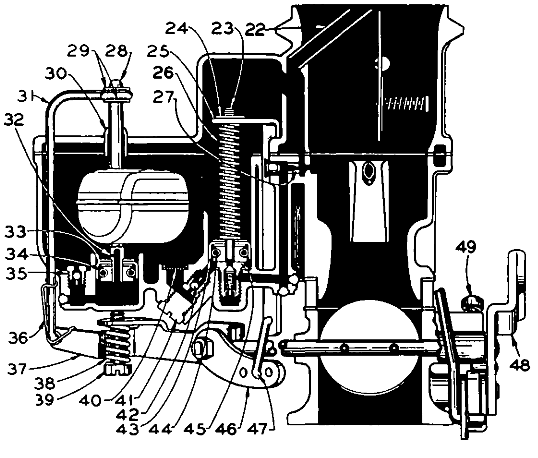
1942
DODGE

MODEL
D-22
3-1/4″ x 4-3/8″—6 cyl.

PARTS ILLUSTRATED

1 Choke Valve
2 Choke Relief Valve
3 Vacuum Power Piston
4 Main Discharge Jet
5 High Speed Bleeder
6 Idle Tube
7 Float
8 Float Needle Valve
9 Float Needle Valve Seat
10 Float Fulcrum Pin Clip
11 Float Fulcrum Pin
12 Power By Pass Jet
13 Main Discharge Jet Plug
14 Main Metering Jet
15 Throttle Valve
16 Idle Discharge Holes
17 Idle Needle Valve
18 Vacuum Spark Conn
18A Vacuum Spark Hole
19 Primary Venturi
20 Auxiliary Venturi
21 Idle Air Bleed
22 Float Chamber Vent
23 Pump Piston Stem
24 Cotter Pin
25 Pump Rod
26 Pump Duration Spring
27 Pump Discharge Nozzle
28 Dash Pot Piston Stem
29 Dash Pot Rod Cotter Pin
30 Dash Pot Piston Stem Bushing
31 Dash Pot Rod
32 Dash Pot Piston Relief Hole
33 Dash Pot Piston Leather
34 Dash Pot Leather Expansion Spring
35 Dash Pot Check Valve
36 Dash Pot Rod Spring
37 Dash Pot Control Lever
38 Adjusting Screw Spring
39 Dash Pot Adj Screw
40 Check Valve Strainer Screen
41 Check Valve Plug
42 Check Valve
43 Pump Piston Leather
44 Piston Leather Expanding Spring
45 Pump By Pass Jet
46 Pump Lever
47 Pump Link
48 Throttle Lever
49 Throttle Stop Screw





Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **5/8″** below top surface of float chamber (without gasket) at 3 lbs pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level)

MAIN METERING SYSTEM—Venturi **1-7/32″**; Main Discharge Jet **No. 28-36** 382897 **(Tool T-24967)**; High Speed Bleeder **No. 68** P-24315, Main Metering Jet **.061″** P 19442 **(Tool T-24924)**; **(Tool T-19099)** used with main jet plug Main Metering system controls the flow of fuel up to approximately 65 to 70 M P H

POWER SYSTEM—Power By Pass Jet **No. 55** P 23676, Power jet to come into operation at **4″** to **6″** of manifold vacuum, which is approximately 65 to 70 M P H **(Tool T-24733)** used for removing P 24201 vacuum power piston

ACCELERATION—Pump Discharge Reducer **No. 70** (in body), Pump By Pass Jet **2 No. 56** P 24062, Pump capacity **11** to **14** c c per 10 slow strokes (middle adjustment) **(Tool T-24972)** Pump Travel **1/4″** to **9/32″**; Pump action takes place during acceleration period only

IDLE SYSTEM—Idle Discharge holes **Nos. 56-58** with throttle valve fully closed and **No. 58** drill in idle hole, edge of valve is located **Flush + .006″ — .000″** from **No. 58** drill Idle Air Bleed **No. 54** (in main body) Idle Tube **No. 70** P-21778, **Adjustment:** Adjust to smooth running OUT to make richer and IN to make leaner, throttle at 6 M P H

DASH POT ADJUSTMENT—With all slack taken out of linkage Dash Pot Piston should be set for **5/16″—11/32″** travel Adjust with adjusting screw on control lever, "OUT" to lengthen stroke, "IN" to shorten

VACUUM SPARK CONTROL—With throttle fully closed and **2 No. 60** drills in spark hole, edge of valve is located Flush from both **No. 60** holes, **1 No. 60** hole drilled at random below throttle valve

FLANGE GASKET—P 24266

SPECIAL TOOLS MENTIONED ABOVE CONTAINED IN TOOL KIT SER-459 SEE FORM 10-265A

MOTOR TUNE-UP DATA

SPARK PLUG—.025″. Clean and adjust at regular intervals.

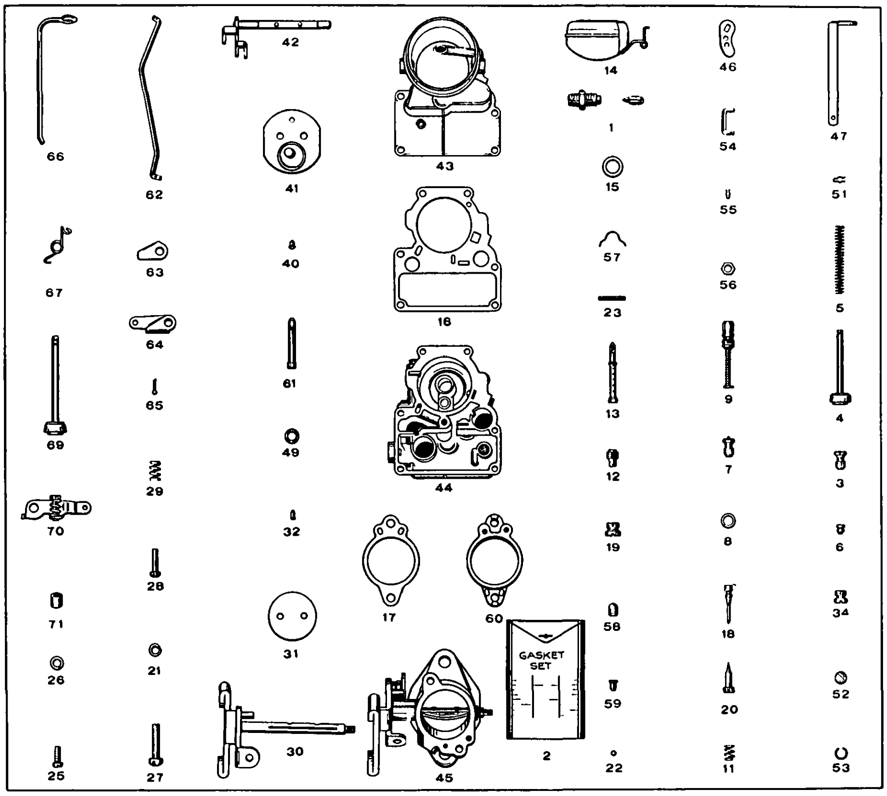
DISTRIBUTOR—Breaker gap set .020″. Replace if necessary.

IGNITION TIMING—Breaker contacts to open for No. 6 cylinder at 2° A.T.D.C. when corresponding mark on impulse neutralizer is in line with pointer.

VALVES—Intake: .008″; Exhaust: .010″. Engine hot.

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Repair Parts Kit No. RK-120

Bin Location	Key No	Part No	Part Name	
	1	**382901**	Float Needle Valve & Seat 093	**(NOT VAR)**
	2	**J-5968-G**	Complete Gasket Set	
	3	**P-24062**	Pump By Pass Jet 2 No 56	**(NOT VAR)**
	4	**P-24039**	Pump Piston Link and Spring (Complete)	
	5	**P-24102**	Spring—Pump Duration.	
	6	**P-18144**	Pump Inlet and Dash Pot Check Valve	
	* 7	**P-23676**	Power By Pass Jet No 55	**(NOT VAR)**
	8	**P-19448**	Gasket—By Pass Jet	
	9	**P-24201**	Vacuum Power Piston	
	10	**P-15478**	Idle Needle Valve	
	11	**P-15481**	Spring—Idle Needle Valve	
	12	**P-19442**	Metering Jet **061**	**(VAR)**
	13	**382897**	Main Discharge Jet No 28 36	**(NOT VAR)**
	14	**382537**	Float with Lever	
	15	**P-10666**	Gasket—Float Needle Valve Seat.	
	16	**P-24624**	Gasket—Air Horn	
	17	**P-24037**	Gasket—Main Body	
	18	**P-21778**	Idle Tube	
	19	**P-23902**	Plug—Main Discharge Jet	
	21	**P-3157**	Lockwasher—Main Body Attach Screw	
	22	**P-18772**	Lead Ball	
	23	**P-23272**	Fulcrum Pin—Float Lever	
	25	**P-3199**	Screw—Air Horn Attaching	
	26	**P-1791**	Lockwasher—Air Horn Attaching Screw	
	27	**P-22025**	Screw—Main Body Attaching	
	28	**P-15456**	Screw—Throttle Stop	
	29	**P-15831**	Spring—Throttle Stop Screw	
	*30	**382898**	Throttle Lever and Stem	
	31	**P-24059**	Throttle Valve	
	32	**P-4522**	Screw—Throttle Valve Attaching	
	34	**P-24678**	Plug—Check Valve	
	40	**P-22573**	Screw—Choke Valve Attach	
	41	**P-24046**	Choke Valve	
	*42	**382885**	Choke Stem and Lever	

Bin Location	Key No	Part No	Part Name	
	*43	**382903**	Assy —Air Horn	
	*44	**382896**	Assy —Main Body **1-7/32′** Venturi **No 68** H S Bleeder **No 54** Idle Air Bleed **No 70** Pump Dis charge	**(VAR)**
		P-20470	Idle Air Bleed No 54	**(NOT VAR)**
	*45	**382902**	Assy —Throttle Body **No 56-58** Idle Holes No **60** Spark Hole (complete with throttle valve and stem)	**(VAR)**
	46	**P-21774**	Pump Lever	
	47	**P-24837**	Pump Rod	
	49	**P-19821**	Spring—Washer—Pump Lever Fulcrum Screw	
	51	**P-21338**	Cotter Pin—Pump Stem	
	52	**P-23270**	Screen—Pump Check Valve Strainer	
	53	**P-23271**	Spring Clip—Strainer Screen	
	54	**P-24836**	Pump Link	
	55	**P-19374**	Cotter Pin—Pump Link	
	56	**P-2290**	Nut—Pump Lever	
	57	**P-23273**	Spring—Float Fulcrum Pin	
	58	**P-24315**	H S Bleeder No 68	**(NOT VAR)**
	59	**P-15459**	Plug—Drive (1/4)	
	60	**P-23857**	Spacer—Main Body Insulator	
	61	**P-24045**	Vent Tube	
	62	**P-24060**	Fast Idle Rod	
	63	**P-23622**	Cam—Fast Idle	
	64	**P-23621**	Lever—Fast Idle	
	65	**112-S-22**	Cotter Pin—Fast Idle Rod	
	66	**382747**	Dash Pot Rod	
	67	**382745**	Spring—Dash Pot Rod	
	69	**382548**	Dash Pot Piston	
	70	**382571**	Dash Pot Control Lever	
		P-18769	Adjustment Screw	
		P-15831	Spring	
	*71	**382746**	Seal	

*Indicates New Parts

BENDIX PRODUCTS DIVISION

SOUTH BEND   OF BENDIX AVIATION CORPORATION   INDIANA

STROMBERG BXVD-3 CARBURETOR

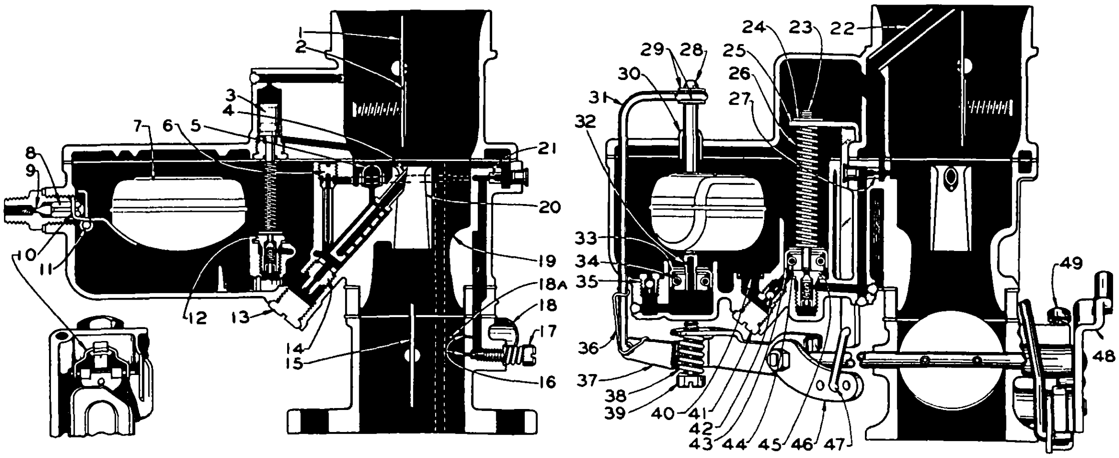
STROMBERG NO 380044 (CODE NO 3-59) DODGE SYMBOL NO 866684

(FOR D-19 EXPORT) STROMBERG NO 380045 (CODE NO 3-60) DODGE SYMBOL NO 867036

SIZE 1-3/8′ D D S A E 2-15/16″ FLANGE CENTERS

1941
DODGE
MODEL
D-19
D-19 Export
3-1/4″ x 4-3/8″—6 cyl

PARTS ILLUSTRATED



1	Choke Valve
2	Choke Relief Valve
3	Vacuum Power Piston
4	Main Discharge Jet
5	High Speed Bleeder
6	Idle Tube
7	Float
8	Float Needle Valve
9	Float Needle Valve Seat
10	Float Fulcrum Pin Clip
11	Float Fulcrum Pin
12	Power By Pass Jet
13	Main Discharge Jet Plug
14	Main Metering Jet
15	Throttle Valve
16	Idle Discharge Holes
17	Idle Needle Valve
18	Vacuum Spark Conn
18A.	Vacuum Spark Hole
19	Primary Venturi
20	Auxiliary Venturi
21	Idle Air Bleed
22	Float Chamber Vent
23	Pump Piston Stem
24	Cotter Pin
25	Pump Rod
26	Pump Duration Spring
27	Pump Discharge Nozzle
28	Dash Pot Piston Stem
29	Dash Pot Rod Cotter Pin
30	Dash Pot Piston Stem Bushing
31	Dash Pot Rod
32	Dash Pot Piston Relief Hole
33	Dash Pot Piston Leather
34	Dash Pot Leather Expansion Spring
35	Dash Pot Check Valve
36	Dash Pot Rod Spring
37	Dash Pot Control Lever
38	Adjusting Screw Spring
39	Dash Pot Adj Screw
40	Check Valve Strainer Screen
41	Check Valve Plug
42	Check Valve
43	Pump Piston Leather
44	Piston Leather Expanding Spring
45	Pump By Pass Jet
46	Pump Lever
47	Pump Link
48	Throttle Lever
49	Throttle Stop Screw

Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **5/8″** below top surface of float chamber (without gasket) at 3 lbs pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level)

MAIN METERING SYSTEM — Venturi **1-5/32″**; Main Discharge Jet **No. 28-36** P 24036 (**Tool T-24967**); High Speed Bleeder **No. 68** P 24315 Main Metering Jet **.058″** P 19442 (**Tool T-24924**); (**Tool T-19099**) used with main jet plug Main Metering system controls the flow of fuel up to approximately 65 to 70 M P H

POWER SYSTEM—Power By-Pass Jet **No. 54** P-21197, Power jet to come into operation at **4″** to **6″** of manifold vacuum, which is approximately 65 to 70 M P H (**Tool T-24733**) used for removing P-24043 vacuum power piston

ACCELERATION—Pump Discharge Reducer **No. 70** (in body), Pump By-Pass Jet **2 No. 56** P 24062 Pump capacity **11** to **14** c c per 10 slow strokes (middle adjustment) (**Tool T-24972**) Pump Travel **1/4″** to **9/32″**; Pump action takes place during acceleration period only

IDLE SYSTEM—Idle Discharge holes **Nos. 56-58**; with throttle valve fully closed and **No. 58** drill in idle hole, edge of valve is located **Flush + .006″ — .000″** from **No. 58** drill, Idle Air Bleed **No. 54** (in main body) Idle Tube **No. 70** P 21778, **Adjustment:** Adjust to smooth running OUT to make richer and IN to make leaner, throttle at 6 M P H

DASH POT ADJUSTMENT—With all slack taken out of linkage Dash Pot Piston should be set for **5/16″—11/32″** travel Adjust with adjusting screw on control lever, "OUT" to lengthen stroke, "IN" to shorten.

VACUUM SPARK CONTROL—With throttle fully closed and **2 No. 60** drills in spark hole, edge of valve is located Flush from both **No. 60** holes, **1 No. 60** hole drilled at random below throttle valve

FLANGE GASKET—P-24266

SPECIAL TOOLS REQUIRED—Use Dodge complete Tool Kit **SER. 375.** T-24733 Float Bender and Power piston wrench, T-24967 Main Discharge Jet Remover, T-24924 Main Metering Jet Wrench, T-24970 By-Pass Jet and Check Valve Tester, T-24972 Pump Capacity Burrette Gauge, T-24968 Handle T-19099 Main jet plug screw driver

MOTOR TUNE-UP DATA

SPARK PLUG—.025″.
Clean and adjust at regular intervals.

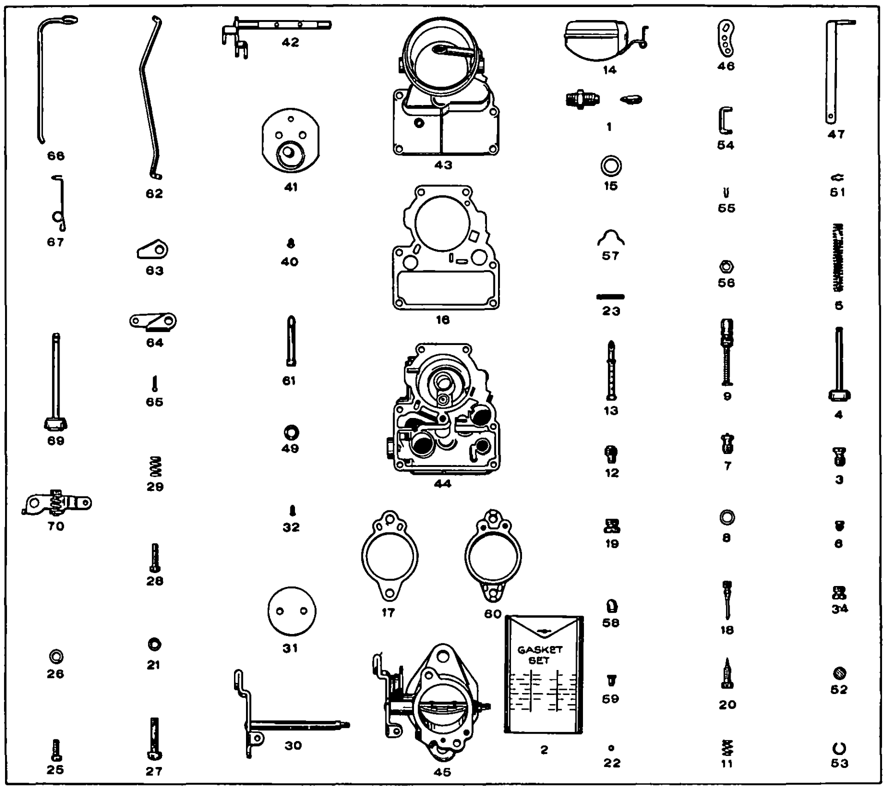
DISTRIBUTOR—Breaker gap set .020″.
Replace if necessary.

IGNITION TIMING—Breaker contacts to open for No. 6 cylinder at T.D.C. when corresponding mark on impulse neutralizer is in line with pointer.

VALVES—Intake: .008″; Exhaust: .010″
Engine hot.

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No	Part No	Part Name	
	1	**P-24827**	Float Needle Valve & Seat 086	**(NOT VAR)**
	2	**J-5968-G**	Complete Gasket Set	
	3	**P-24062**	Pump By Pass Jet 2 No 56	**(NOT VAR)**
	4	**P-24039**	Pump Piston Link and Spring (Complete)	
	5	**P-24102**	Spring—Pump Duration	
	6	**P-18144**	Pump Inlet and Dash Pot Check Valve	
	7	**P-21197**	Power By Pass Jet No 54	**(NOT VAR)**
	8	**P-19448**	Gasket—By Pass Jet	
	9	**P-24043**	Vacuum Power Piston	
	10	**P-17402**	Idle Needle Valve	
	11	**P-15481**	Spring—Idle Needle Valve	
	12	**P-19442**	Metering Jet **058′**	**(VAR)**
	13	**P-24036**	Main Discharge Jet No 28 36	**(NOT VAR)**
	*14	**382537**	Float with Lever	
	15	**P-10666**	Gasket—Float Needle Valve Seat	
	16	**P-24624**	Gasket—Air Horn	
	17	**P-24037**	Gasket—Main Body	
	18	**P-21778**	Idle Tube	
	19	**P-23902**	Plug—Main Discharge Jet	
	21	**P-3157**	Lockwasher—Main Body Attach Screw	
	22	**P-18772**	Lead Ball	
	23	**P-23272**	Fulcrum Pin—Float Lever	
	25	**P-3199**	Screw—Air Horn Attaching	
	26	**P-1791**	Lockwasher—Air Horn Attaching Screw	
	27	**P-22025**	Screw—Main Body Attaching	
	28	**P-15456**	Screw—Throttle Stop	
	29	**P-15831**	Spring—Throttle Stop Screw	
	30	**P-24055**	Throttle Lever and Stem	
	31	**P-24059**	Throttle Valve	
	32	**P-4522**	Screw—Throttle Valve Attaching	
	34	**P-24678**	Plug—Check Valve	
	40	**P-22573**	Screw—Choke Valve Attach	
	41	**P-24046**	Choke Valve	
	42	**P-24050**	Choke Stem and Lever	
	*43	**382544**	Assy —Air Horn	
	*44	**382534**	Assy —Main Body **1-5/32′** Venturi **No** 68 **H** S Bleeder **No. 54** Idle Air Bleed **No** 70 Pump Discharge	**(VAR)**
		P-20470	Idle Air Bleed No 54	**(NOT VAR)**
	*45	**382541**	Assy —Throttle Body **No 56-58** Idle Holes No **60** Spark Hole (complete with throttle valve and stem)	**(VAR)**
	46	**P-21774**	Pump Lever	
	47	**P-24837**	Pump Rod	
	49	**P-19821**	Spring—Washer—Pump Lever Fulcrum Screw	
	51	**P-21338**	Cotter Pin—Pump Stem	
	52	**P-23270**	Screen—Pump Check Valve Strainer	
	53	**P-23271**	Spring Clip—Strainer Screen	
	54	**P-24836**	Pump Link	
	55	**P-19374**	Cotter Pin—Pump Link	
	56	**P-2290**	Nut—Pump Lever	
	57	**P-23273**	Spring—Float Fulcrum Pin	
	58	**P-24315**	H S Bleeder No 68	**(NOT VAR)**
	59	**P-15459**	Plug—Drive (1/4)	
	60	**P-23857**	Spacer—Main Body Insulator	
	61	**P-24045**	Vent Tube	
	62	**P-24060**	Fast Idle Rod	
	63	**P-23622**	Cam—Fast Idle	
	64	**P-23621**	Lever—Fast Idle	
	65	**112-S-22**	Cotter Pin—Fast Idle Rod	
	*66	**382552**	Dash Pot Rod	
	*67	**382611**	Spring—Dash Pot Rod	
	*69	**382548**	Dash Pot Piston	
	*70	**382571**	Dash Pot Control Lever	
		P-18769	Adjustment Screw	
		P-15831	Spring	

*Indicates New Parts

PARTS EXCEPTIONS

Dodge D-19 Export

No 380045—Code No 3-60—Sym No 867036

Key No 1 **P-24063** Float Needle Valve & Seat 086″ **(NOT VAR)**

BENDIX PRODUCTS DIVISION

SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

STROMBERG "BXV-3" CARBURETOR

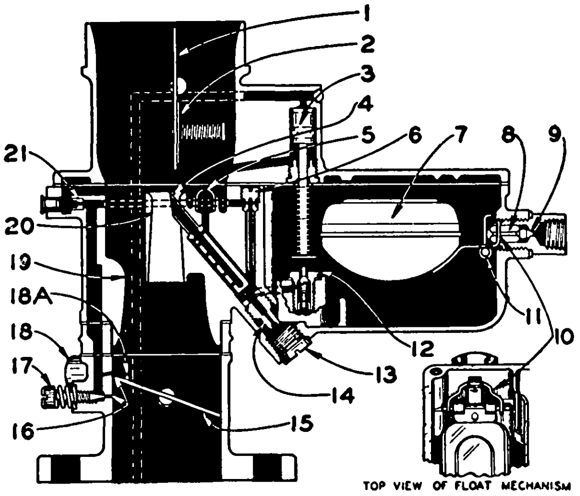
STROMBERG NO A-18123 (CODE NO 3-54A) DODGE SYMBOL NO 860122
STROMBERG NO A-18133 (CODE NO. 3-55) DODGE SYMBOL NO 860123
SIZE 1-3/8 D D S A E 2-15/16" FLANGE CENTER

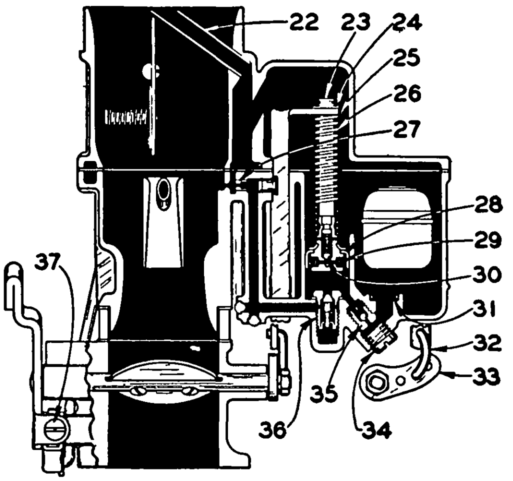
1940
DODGE

MODELS
D-14, D-17
D-14, D-17 Exp
3-1/4" x 4-3/8"—6 Cyl.

PARTS ILLUSTRATED

1 Choke Valve
2 Choke Relief Valve
3 Vacuum Power Piston
4 Main Discharge Jet
5 High Speed Bleeder
6 Idle Tube
7 Float
8 Float Needle Valve
9 Float Needle Valve Seat
10 Float Fulcrum Pin Clip
11 Float Fulcrum Pin
12 Power By Pass Jet
13 Main Jet Plug
14 Main Metering Jet
15 Throttle Valve
16 Idle Dis Holes
17 Idle Needle Valve
18 Vacuum Spark Conn
18A Vacuum Spark Hole
19 Primary Venturi
20 Auxiliary Venturi
21 Idle Air Bleed
22 Float Chamber Vent
23 Piston Conn Rod
24 Cotter Pin
25 Pump Piston Rod
26 Pump Duration Spring
27 Pump Discharge Nozzle
28 Pump Piston
29 Pump Piston Exp Spring
30 Pump Relief Valve
31 Pump Inlet Strainer
32 Pump Link
33 Pump Lever
34 Pump Inlet Plug
35 Pump Inlet Check Valv
36 Pump By Pass Jet
37 Throttle Stop Screw





Note —Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **5/8"** below top surface of float chamber (without gasket) at 3 lbs pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level).

MAIN METERING SYSTEM—Venturi **1-5/32"**; Main Discharge Jet **No. 28-36** P 24036 (**Tool T-24967**); High Speed Bleeder **No. 68** P 24315, Main Metering Jet **.058"** P 19442 (**Tool T-24924**); (**Tool T-19099**) used with main jet plug Main Metering system controls the flow of fuel up to approximately 65 to 70 M P H

POWER SYSTEM—Power By Pass Jet **No. 54** P-21197, Power jet to come into operation at **4"** to **6"** of manifold vacuum, which is approximately 65 to 70 M P H (**Tool T-24733**) used for removing P 24043 vacuum power piston

ACCELERATION—Pump Discharge Reducer **No. 70** (in body), Pump By-Pass Jet **2 No. 56** P 24062, Pump capacity **11** to **14** c c per 10 slow strokes (middle adjustment) (**Tool T-24972**) Pump Travel **1/4"** to **9/32"**; Pump action takes place during acceleration period only

IDLE SYSTEM—Idle Discharge holes **Nos. 56-58**; with throttle valve fully closed and **No. 58** drill in idle hole, edge of valve is located **Flush + .006" — .000"** from **No. 58** drill, Idle Air Bleed **No. 54** (in main body) Idle Tube **No. 70** P 21778, **Adjustment:** Adjust to smooth running OUT to make richer and IN to make leaner, throttle at 6 M P H

VACUUM SPARK CONTROL—With throttle fully closed and **2 No. 60** drills in spark hole, edge of valve is located Flush from both **No. 60** holes, **1 No. 60** hole drilled at random below throttle valve

FLANGE GASKET—P 24266

SPECIAL TOOLS REQUIRED—Use Dodge complete Tool Kit **SER. 375.** T-24733 Float Bender and Power piston wrench, T 24967 Main Discharge Jet Remover, T 24924 Main Metering Jet Wrench, T-24970 By-Pass Jet and Check Valve Tester, T 24972 Pump Capacity Burrette Gauge, T 24968 Handle T-19099 Main jet plug screw driver

MOTOR TUNE-UP DATA

SPARK PLUG—.025".
Clean and adjust at regular intervals.

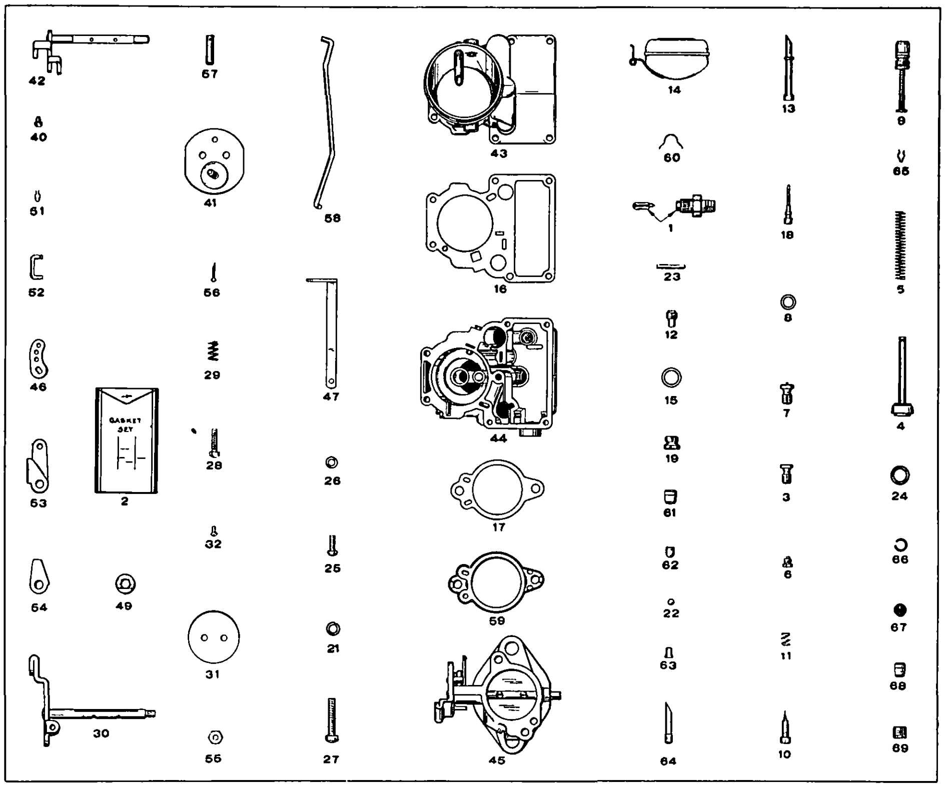
DISTRIBUTOR—.020".
Breaker gap set .020". Replace if necessary.

VALVES—**Intake: .006"; Exhaust: .008".**
Engine hot.

IGNITION TIMING—**Breaker contacts to open for No. 6 cylinder at T. D. C. when corresponding mark on impulse neutralizer is in line with pointer.**

SERVICE RECOMMENDATION—**Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.**

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Bin Loca- tion	Key No	Part No	Part Name	
	1	**P-24827**	Float Needle Valve Seat 086"	**(NOT VAR)**
	2	**J-5968-G**	Complete Gasket Set	
	3	**P-24062**	Pump By Pass Jet No 56	**(NOT VAR)**
	4	**P-24039**	Pump Piston Stem (Complete)	
	5	**P-24102**	Spring—Pump Duration	
	6	**P-18144**	Pump Inlet Check Valve	
	7	**P-21197**	Power By Pass Jet No 54	**(NOT VAR)**
	8	**P-19448**	Gasket—By Pass Jet	
	9	**P-24043**	Vacuum Power Piston	
	10	**P-17402**	Idle Needle Valve	
	11	**P-15481**	Spring—Idle Needle Valve	
	12	**P-19442**	Metering Jet **058"**	**(VAR)**
	13	**P-24036**	Main Discharge Jet No 28 36	**(NOT VAR)**
	14	**P-22081**	Float with Lever	
	15	**P-10666**	Gasket—Float Needle Valve Seat	
	16	**P-24624**	Gasket—Air Horn	
	17	**P-24037**	Gasket—Main Body	
	18	**P-21778**	Idle Tube	
	19	**P-23902**	Plug—Main Discharge Jet	
	21	**P-3157**	Lockwasher—Main Body Attach Screw	
	22	**P-18772**	Lead Ball	
	23	**P-23272**	Fulcrum Pin—Float Lever	
	24	**P-16960**	Spring—Pump Piston Leather Expansion	
	25	**P-3199**	Screw—Air Horn Attaching	
	26	**P-1791**	Lockwasher—Air Horn Attaching Screw	
	27	**P-22025**	Screw—Main Body Attaching	
	28	**P-15456**	Screw—Throttle Stop	
	29	**P-15831**	Spring—Throttle Stop Screw	
	30	**P-24055**	Throttle Lever and Stem	
	31	**P-24059**	Throttle Valve (20°)	**(NOT VAR)**
	32	**P-4522**	Screw—Throttle Valve Attaching	
	40	**P-22573**	Screw—Choke Valve Attach	
	41	**P-24046**	Choke Valve	
	42	**P-24050**	Choke Stem and Lever	
	43	**P-24798**	Assy —Air Horn	

Bin Loca- tion	Key No	Part No	Part Name	
	44	**P-24791**	Assy —Main Body **1-5/32"** Venturi **No 68** High Speed Bleeder	**(VAR)**
	45	**P-24792**	Assy —Throttle Body **No 56-58** Idle Discharge Holes	**(VAR)**
	46	**P-21774**	Pump Lever	
	47	**P-24837**	Pump Rod	
	49	**P-19821**	Spring—Washer—Pump Lever Fulcrum Screw	
	51	**P-19374**	Cotter Pin—Pump Link	
	52	**P-24836**	Pump Link	
	53	**P-23621**	Fast Idle Cam Lever	
	54	**P-23622**	Fast Idle Cam	
	55	**P-2290**	Nut—Pump Lever	
	56	**112-S-22**	Cotter Pin—Fast Idle Rod	
	57	**P-24054**	Pin—Stop (Throttle Body)	
	58	**P-24060**	Fast Idle Rod	
	59	**P-23857**	Spacer—Main Body (Insulator)	
	60	**P-23273**	Spring—Float Fulcrum Pin	
	61	**P-20470**	Idle Air Bleeder	
	62	**P-24315**	High Speed Bleeder No 68	**(NOT VAR)**
	63	**P-15459**	Plug—Drive 1/4"	
	64	**P-24045**	Vent Tube	
	65	**P-21338**	Cotter Pin—Fast Idle Cam Lever and Pump Stem	
	66	**P-23271**	Spring Clip—Pump Strainer Screen	
	67	**P-23270**	Screen—Pump Strainer	
	68	**P-24067**	Reducer—Pump Disch No 70	**(NOT VAR)**
	69	**P-23269**	Plug—Pump Check Valve Channel	

PARTS EXCEPTIONS

Dodge D-14, D-17 Export

A-18133—Code No 3-55—Symbol No 860123

Bin Loca- tion	Key No	Part No	Part Name
	30	**P-24069**	Throttle Lever and Stem
	45	**P-24793**	Throttle Body **No 56-58** Idle Discharge Holes **(VAR)**

BENDIX PRODUCTS DIVISION

SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

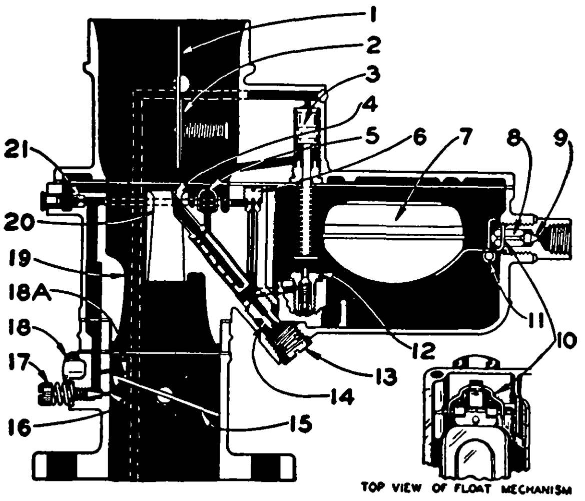
STROMBERG BXOV-2 CARBURETOR

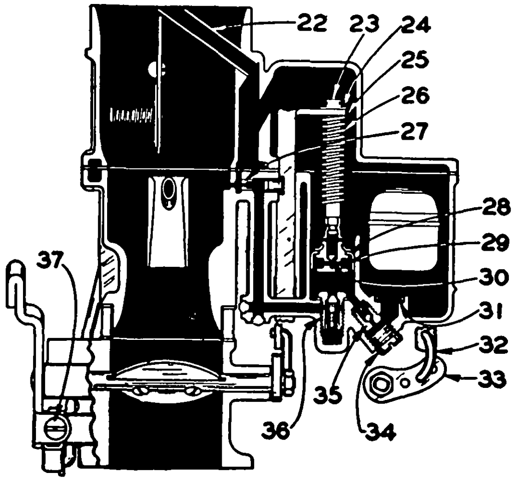
STROMBERG NO A-19032 (CODE NO 3-45)

SIZE 1-3/8 D D S A E 2-11/16′ FLANGE CENTERS

1935-38
DODGE
Replacement Equipment
MODELS
"DU," "D-2-3-5-8"
3-1/4″ x 4-3/8″—6 cyl.

PARTS ILLUSTRATED





1 Choke Valve
2 Choke Relief Valve
3 Vacuum Power Piston
4 Main Discharge Jet
5 High Speed Bleeder
6 Idle Tube
7 Float
8 Float Needle Valve
9 Float Needle Valve Seat
10 Float Fulcrum Pin Clip
11 Float Fulcrum Pin
12 Power By Pass Jet
13 Main Jet Plug
14 Main Metering Jet
15 Throttle Valve
16 Idle Discharge Holes
17 Idle Needle Valve
18 Vacuum Spark Conn
18A Vacuum Spark Hole
19 Primary Venturi
20 Auxiliary Venturi
21 Idle Air Bleed
22 Float Chamber Vent
23 Piston Conn Rod
24 Cotter Pin
25 Pump Piston Rod
26 Pump Duration Spring
27 Pump Discharge Nozzle
28 Pump Piston
29 Pump Piston Exp Spring
30 Pump Relief Valve
31 Pump Inlet Strainer
32 Pump Link
33 Pump Lever
34 Pump Inlet Plug
35 Pump Inlet Check Valve
36 Pump By Pass Jet
37 Throttle Stop Screw

Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **5/8″** below top surface of float chamber (without gasket) at 3 lbs pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level)

MAIN METERING SYSTEM—Venturi **1-5/32″**; Main Discharge Jet **No. 28-36** P-24036 (**Tool T-24967**); High Speed Bleeder **No. 68** P-24315 Main Metering Jet **.058″** P-19442 (**Tool T-24924**); Use **Tool T-19099** Screwdriver for removing main jet plug Main metering system controls the flow of fuel up to approximately 65 to 70 M P H

POWER SYSTEM—Power By Pass Jet **No. 54** P-21197 Power jet to come into operation at 4″ to 6″ of manifold vacuum, which is approximately 65 to 70 M P H (**Tool T-24733**) used to remove vacuum power piston

ACCELERATION—Pump Discharge Reducer **No. 70** P 24067 Pump By Pass Jet **2 No. 56**; Pump capacity **11** to **14** c c per 10 slow strokes with pump rod link set in middle setting (**Tool T-24972**) Pump action takes place during acceleration period only

IDLE SYSTEM—Idle Discharge holes **Nos. 56-58.** With throttle valve fully closed and **No. 58** drill in idle hole, edge of valve is located **Flush +** .006 ″**-.000**″ from **No. 58** drill, Idle Air Bleed **No. 54** P 20470, Idle Tube **No. 70** P 21778 **Adjustment:** Adjust to smooth running, OUT to make richer and IN to make leaner, throttle at 7 to 8 M P H

VACUUM SPARK CONTROL—Drill **2 No. 60** holes above throttle valve, **1 No. 60** hole drilled at random below throttle valve With throttle fully closed and **No. 60** drill in spark hole above valve, edge of valve is located **Flush** from **No. 60** drill

FLANGE GASKET—P 24314

SPECIAL TOOLS REQUIRED—Use **Dodge** complete Tool Kit **SER-375** T 24733 Float Adj and power piston wrench T 24967 Main Discharge Jet Remover T 24924 Main Metering Jet Wrench, T 24970 By Pass Jet and Check Valve Tester, T 24972 Pump Capacity Burrette Gauge, T-24968 Handle T 19099 Main jet plug screwdriver

MOTOR TUNE-UP DATA

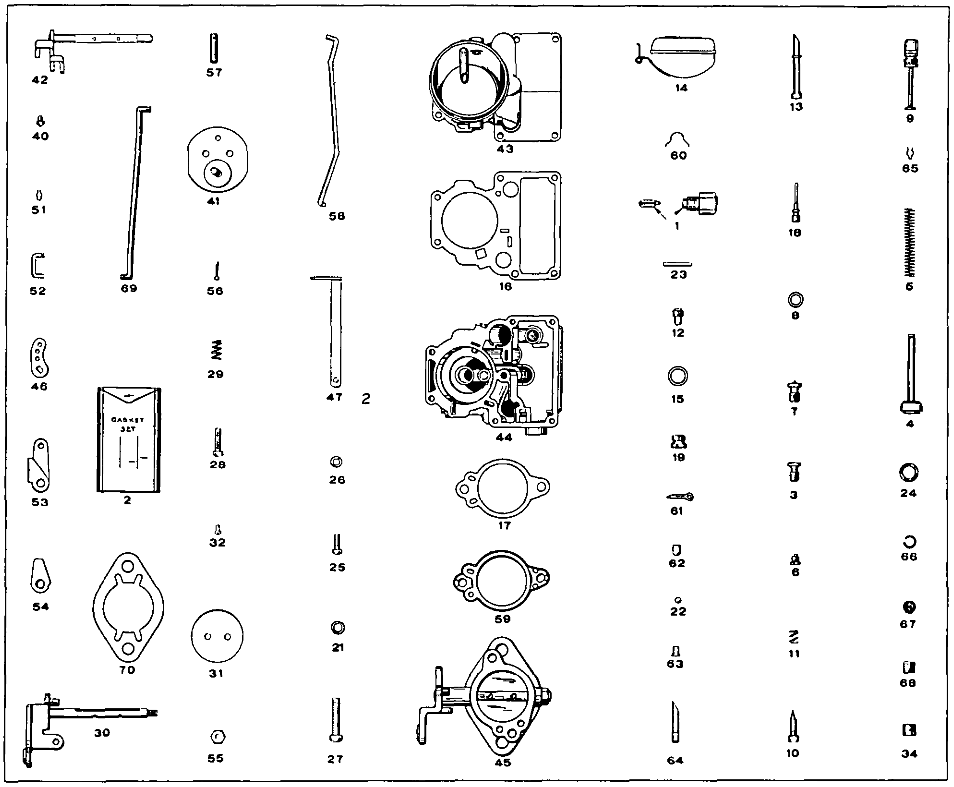
SPARK PLUG—.025″.
Clean and adjust at regular intervals.

DISTRIBUTOR—.020″. Breaker gap set .020″. Replace if necessary.

IGNITION TIMING—Breaker contacts to open for No. 1 cyl. 4° A.T.D.C. when corresponding mark on impulse neutralizer is in line with pointer.

VALVES—Intake: .006. Exhaust: .008″. Engine hot.

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No.	Part No.	Part Name	
	1	**P-24063**	Float Needle Valve and Seat 086"	**(NOT VAR.)**
	2	**J-5409-G**	Complete Gasket Set	
	3	**P-24062**	Pump By-Pass Jet No 56	**(NOT VAR.)**
	4	**P-24039**	Pump Piston and Stem (Complete)	
	5	**P-24287**	Spring—Pump Duration	
	6	**P-18144**	Pump Inlet Check Valve	
	7	**P-21197**	Power By Pass Jet No 54	**(NOT VAR.)**
	8	**P-19448**	Gasket—By Pass Jet	
	9	**P-24043**	Vacuum Power Piston	
	10	**P-17402**	Idle Needle Valve	
	11	**P-15481**	Spring—Idle Needle Valve	
	12	**P-19442**	Metering Jet **058"**	**(VAR)**
	13	**P-24036**	Main Discharge Jet No 28 36	**(NOT VAR)**
	14	**P-22081**	Float with Lever	
	15	**P-10666**	Gasket—Float Needle Valve Seat	
	16	**P-24053**	Gasket—Air Horn	
	17	**P-24037**	Gasket—Main Body	
	18	**P-21778**	Idle Tube	
	19	**P-23902**	Plug—Main Discharge Jet	
	21	**P-3157**	Lockwasher—Main Body Attach Screw	
	22	**P-18772**	Lead Ball	
	23	**P-23272**	Pin—Fulcrum—Float Lever	
	24	**P-16960**	Spring—Pump Piston Leather Expansion	
	25	**P-3199**	Screw—Air Horn Attach	
	26	**P-1791**	Lockwasher—Air Horn Attach Screw	
	27	**P-22025**	Screw—Main Body Attach	
	28	**P-15456**	Screw—Throttle Stop	
	29	**P-15831**	Spring—Throttle Stop Screw	
	30	**P-24234**	Throttle Lever and Stem	
	31	**P-24059**	Throttle Valve (20°)	**(NOT VAR)**
	32	**P-4522**	Screw—Throttle Valve Attach	
	34	**P-23269**	Plug—Check Valve Channel	
	40	**P-22573**	Screw—Choke Valve Attach	
	41	**P-24046**	Choke Valve	
	42	**P-24050**	Choke Lever and Stem	
	43	**P-24798**	Assy —Air Horn	
	44	**P-24791**	Main Body **1-5/32"** Venturi **No 68** H S Bleeder **No. 54** Idle Air Bleeder **No 70** Pump Discharge Tube	**(VAR.)**
		P-20470	Idle Air Bleed No 54	**(NOT VAR.)**
	45	**P-24795**	Throttle Body with Pin **No. 56-58** Idle Disch Holes **No. 60** Spark Control Holes	**(VAR)**
	46	**P-21774**	Pump Lever	
	47	**P-24042**	Pump Rod	
	51	**P-19374**	Cotter Pin—Pump Link	
	52	**P-24041**	Pump Link	
	53	**P-23621**	Lever—Fast Idle	
	54	**P-23622**	Cam—Fast Idle	
	55	**P-2290**	Nut—Pump Lever Attach	
	56	**112-S-22**	Cotter Pin—Fast Idle Rod	
	57	**P-23620**	Pin—Fast Idle Lever Fulcrum (Throttle Body)	
	58	**P-24060**	Rod—Fast Idle	
	59	**P-23857-T**	Spacer—Main Body Insulator	
	60	**P-23273**	Spring—Float Fulcrum Pin	
	61	**P-7170**	Cotter Pin—Fast Idle Lever	
	62	**P-24315**	High Speed Bleeder No 68	**(NOT VAR)**
	63	**P-15459**	Plug—Idle Air Bleed and Pump Disch Channel	
	64	**P-24045**	Vent Tube	
	65	**P-21338**	Cotter Pin—Pum Stem	
	66	**P-23271**	Spring Clip—Pump Strainer Screw	
	67	**P-23270**	Screen—Pump Strainer	
	68	**P-3292**	Plug—Governor Connection	
	69	**P-24225**	Choke Rod	
	70	**P-24314**	Flange Gasket	

BENDIX PRODUCTS DIVISION
SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

STROMBERG "BXOV-2" CARBURETOR

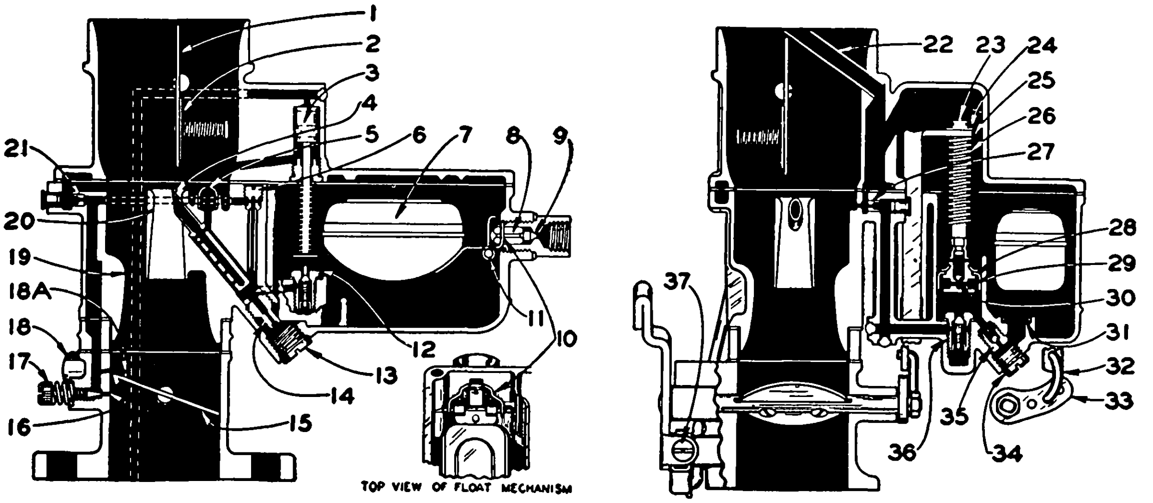
STROMBERG NO A-19042 (CODE NO 3-46)

SIZE 1-3/8" D. D S A E 2-11/16" FLANGE CENTERS

1933-38
Dodge
(Replacement Equipment)
MODELS
DP, DR, DS, and D-4-6-7
3-1/4" x 4-3/8"—6 cyl.

PARTS ILLUSTRATED

1 Choke Valve
2 Choke Relief Valve
3 Vacuum Power Piston
4 Main Discharge Jet
5 High Speed Bleeder
6 Idle Tube
7 Float
8 Float Needle Valve
9 Float Needle Valve Seat
10 Float Fulcrum Pin Clip
11 Float Fulcrum Pin
12 Power By Pass Jet
13 Main Jet Plug
14 Main Metering Jet
15 Throttle Valve
16 Idle Discharge Holes
17 Idle Needle Valve
18 Vacuum Spark Conn
18A Vacuum Spark Hole
19 Primary Venturi
20 Auxiliary Venturi
21 Idle Air Bleed
22 Float Chamber Vent
23 Piston Conn Rod
24 Cotter Pin
25 Pump Piston Rod
26 Pump Duration Spring
27 Pump Discharge Nozzle
28 Pump Piston
29 Pump Piston Exp Spring
30 Pump Relief Valve
31 Pump Inlet Strainer
32 Pump Link
33 Pump Lever
34 Pump Inlet Plug
35 Pump Inlet Check Valve
36 Pump By Pass Jet
37 Throttle Stop Screw



Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure 5/8" below top surface of float chamber (without gasket) at 3 lbs pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level)

MAIN METERING SYSTEM—Venturi **1-5/32"**; Main Discharge Jet **No. 28-36** P-24036 (**Tool T-24967**); High Speed Bleeder **No. 68** P 24315 Main Metering Jet .060" (P 19442), **Tool T-24924**); Adjustable Metering Jet .060" P-24268 Main metering system controls the flow of fuel up to approximately 65 to 70 M P H

POWER SYSTEM—Power By Pass Jet **No. 54** P-21197, Power jet to come into operation at 4" to 6" of manifold vacuum, which is approximately 65 to 70 M P H (**Tool T-24733**) used to remove vacuum power piston

ACCELERATION—Pump Discharge Reducer **No. 70** in main body, Pump By Pass Jet **2 No. 56**; Pump capacity **11** to **14** c c per 10 slow strokes with pump rod link set in middle setting (**Tool T-24972**) Pump action takes place during acceleration period only

IDLE SYSTEM—Idle Discharge holes **Nos. 56-58.** With throttle valve fully closed and **No. 58** drill in idle hole, edge of valve is located **Flush + .006"-.000"** from **No. 58** drill, Idle Air Bleed **No. 54** P-20470, Idle Tube **No. 70** P-21778 Adjustment Adjust to smooth running, OUT to make richer and IN to make leaner, Throttle at 7 to 8 M P H

VACUUM SPARK CONTROL—Drill **2 No. 60** holes above throttle valve, **1 No. 60** hole drilled at random below valve With throttle fully closed and **No. 60** drill in spark hole above valve, edge of valve is located **Flush** from **No. 60** drill

FLANGE GASKET—P-24314—4 slots—use without governor P 24264—1 elongated slot—use with governor

SPECIAL TOOLS REQUIRED—T 24733 Float Adj. and power piston wrench T-24967 Main Discharge Jet Remover, T 24924 Main Metering Jet Wrench, T-24970 By-Pass Jet and Check Valve Tester, T-24972 Pump Capacity Burrette Gauge, T-24968 Handle T-19099 Main jet plug screwdriver

MOTOR TUNE-UP DATA

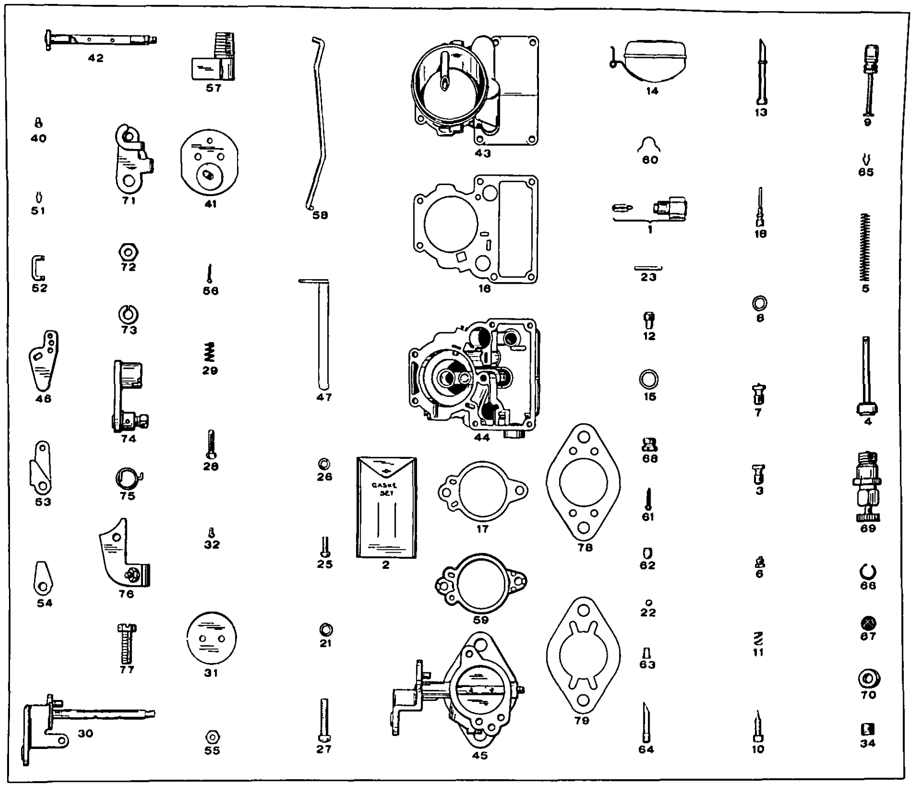
SPARK PLUG — Clean and adjust at regular intervals.

DISTRIBUTOR—Set breaker gap. Replace points if necessary.

VALVES—Intake, Exhaust. Adjust with engine hot.

IGNITION TIMING—Use timing light.

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No.	Part No	Part Name
	1	**P-24063**	Float Needle Valve and Seat 086″ **(NOT VAR)**
	2	**J-5409-G**	Complete Gasket Set
	3	**P-24062**	Pump By Pass Jet No 56 **(NOT VAR)**
	4	**P-24039**	Pump Piston and Stem (Complete)
	5	**P-24287**	Spring—Pump Duration
	6	**P-18144**	Pump Inlet Check Valve
	7	**P-21197**	Power By Pass Jet No 54 **(NOT VAR)**
	8	**P-19448**	Gasket—By Pass Jet
	9	**P-24043**	Vacuum Power Piston
	10	**P-17402**	Idle Needle Valve
	11	**P-15481**	Spring—Idle Needle Valve
	12	**P-19442**	Metering Jet **058″** **(VAR)**
	13	**P-24036**	Main Discharge Jet No 28 36 **(NOT VAR)**
	14	**P-22081**	Float with Lever
	15	**P-10666**	Gasket—Float Needle Valve Seat
	16	**P-24053**	Gasket—Air Horn
	17	**P-24037**	Gasket—Main Body
	18	**P-21778**	Idle Tube
	19	**P-23902**	Plug—Main Discharge Jet
	21	**P-3157**	Lockwasher—Main Body Attach Screw
	22	**P-18772**	Lead Ball
	23	**P-23272**	Pin—Fulcrum—Float Lever
	25	**P-3199**	Screw—Air Horn Attach
	26	**P-1791**	Lockwasher—Air Horn Attach Screw
	27	**P-22025**	Screw—Main Body Attach
	28	**P-15456**	Screw—Throttle Stop
	29	**P-15831**	Spring—Throttle Stop Screw
	30	**P-24234**	Throttle Lever and Stem
	31	**P-24059**	Throttle Valve (20°) **(NOT VAR)**
	32	**P-4522**	Throttle Valve Attach
	34	**P-23269**	Plug—Check Valve Channel
	40	**P-22573**	Screw—Choke Valve Attach
	41	**P-24046**	Choke Valve
	42	**P-24077**	Choke Lever and Stem
	43	**P-24709**	Air Horn Assembly
	44	**P-24791**	Main Body **1-5/32″** Venturi **No 68** H S Bleeder **No 54** Idle Air Bleeder **No. 70** Pump Disch Tube **(VAR)**
		P-20470	Idle Air Bleed No 54 **(NOT VAR.)**
	45	**P-24795**	Throttle Body with Pin **No. 56-58** Idle Disch Holes **No. 60** Spark Control Holes **(VAR)**
	46	**P-23666**	Pump Lever
	47	**P-24042**	Pump Rod
	51	**P-19374**	Cotter Pin—Pump Link
	52	**P-18368**	Pump Link
	53	**P-23621**	Lever—Fast Idle
	54	**P-23622**	Cam—Fast Idle
	55	**P-2290**	Nut—Pump Lever Attach
	56	**112-S-22**	Cotter Pin—Fast Idle Rod
	57	**P-17481**	Elbow Union
	58	**P-24060**	Rod—Fast Idle
	59	**P-23857-T**	Spacer—Main Body Insulator
	60	**P-23273**	Spring—Float Fulcrum Pin
	61	**P-7170**	Cotter Pin—Fast Idle Lever
	62	**P-24315**	High Speed Bleeder No 68 **(NOT VAR.)**
	63	**P-15459**	Plug—Idle Air Bleed and Pump Disch Channel
	64	**P-24045**	Vent Tube
	65	**P-21338**	Cotter Pin—Pump Stem
	66	**P-23271**	Spring Clip—Pump Strainer Screw
	67	**P-23270**	Screen—Pump Strainer
	68	**P-3292**	Plug—Governor Connection
	69	**P-24268**	Adjustable Metering Jet
	70	**P-24215**	Washer—Pump Stem
	71	**P-24052**	Lever—Auto Choke
	72	**P-16571**	Nut—Auto Choke Lever Attach
	73	**P-6668**	Lockwasher—Auto Choke Lever Attach Nut
	74	**P-24081**	Manual Choke Lever
	75	**P-24080**	Spring—Manual Choke Lever
	76	**P-24086**	Choke Tube Holder
		P-2229	Screw—Choke Tube Clamp
		P-2290	Nut—Choke Tube Clamp Screw
		P-15875	Lockwasher—Choke Tube Clamp Screw
	77	**P-24087**	Screw—Choke Tube Holder Attach
	78	**P-24264**	Flange Gasket
	79	**P-24314**	Flange Gasket

BENDIX PRODUCTS DIVISION
SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

STROMBERG BXV-3 CARBURETOR

STROMBERG NO A-18113 (CODE NO 3-43A) CHRYSLER SYMBOL NO 591384

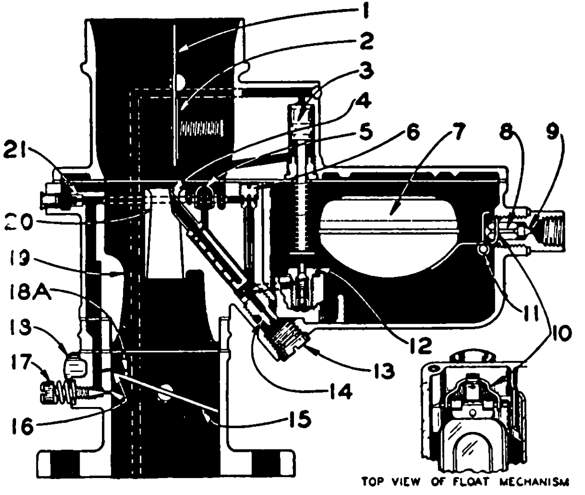
STROMBERG NO 380009 (CODE NO 3-58) CHRYSLER SYMBOL NO 599298

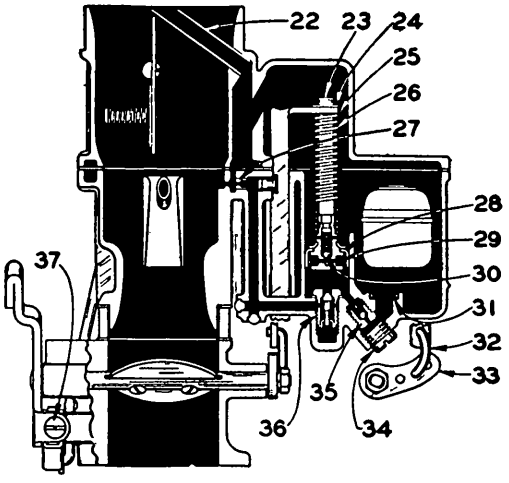
SIZE 1-3/8 D D S A E 2-15/16" FLANGE CENTER

Dodge Truck
1939 MODELS
TD-15, 20 21
ENG MOD T-70 72
1940 MODELS
VD-15 20 21
ENG MOD T-94, 96
1941 MODELS
WD-15 20, 21
ENG MOD T-114 T-116

PARTS ILLUSTRATED

1 Choke Valve
2 Choke Relief Valve
3 Vacuum Power Piston
4 Main Discharge Jet
5 High Speed Bleeder
6 Idle Tube
7 Float
8 Float Needle Valve
9 Float Needle Valve Sec
10 Float Fulcrum Pin Clip
11 Float Fulcrum Pin
12 Power By Pass Jet
13 Main Jet Plug
14 Main Metering Jet
15 Throttle Valve
16 Idle Dis Holes
17 Idle Needle Valve
18 Vacuum Spark Conn
18A Vacuum Spark Hole
19 Primary Venturi
20 Auxiliary Venturi
21 Idle Air Bleed
22 Float Chamber Vent
23 Piston Conn Rod
24 Cotter Pin
25 Pump Piston Rod
26 Pump Duration Spring
27 Pump Discharge Nozzle
28 Pump Piston
29 Pump Piston Exp Spring
30 Pump Relief Valve
31 Pump Inlet Strainer
32 Pump Link
33 Pump Lever
34 Pump Inlet Plug
35 Pump Inlet Check Valve
36 Pump By-Pass Jet
37 Throttle Stop Screw





Note—Specifications below are for latest production; previous major changes listed on parts page.

FUEL LEVEL—Measure **5/8"** below top surface of float chamber (without gasket) at 3 lbs pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level)

MAIN METERING SYSTEM—Venturi **1-5/32"**; Main Discharge Jet **No. 28-36** P-24036 (**Tool T-24967**); High Speed Bleeder **No. 68** P-24315 in body Main Metering Jet **.058"** P-19442 (**Tool T-24924**); Use **Tool T-19099** Screwdriver for removing main jet plug Main metering system controls the flow of fuel up to approximately 65 to 70 M P H

POWER SYSTEM—Power By-Pass Jet **No. 54** P-21197, Power jet to come into operation at 4" to 6" of manifold vacuum, which is approximately 65 to 70 M P H (**Tool T-24733**) used to remove vacuum power piston

ACCELERATION—Pump Discharge Nozzle **No. 70** in main body, Pump By-Pass Jet **2 No. 56**; Pump capacity **11** to **14** c c per 10 slow strokes with pump rod link set in middle setting Pump Travel 1/4" 9/32" Pump action takes place during acceleration period only (**Tool T-24972.**)

IDLE SYSTEM—Idle Discharge holes **Nos. 56-58.** With throttle valve fully closed and **No. 58** drill in idle hole, edge of valve is locased **Flush + .006"-.000"** from **No. 58** drill, Idle Air Bleed **No. 54** in main body, Idle Tube **No. 70** P-21778 **Adjustment:** Adjust to smooth running, OUT to make richer and IN to make leaner, throttle at 7 to 8 M P H

VACUUM SPARK CONTROL—With throttle fully closed and **No. 60** drill in spark hole, edge of valve is located **Flush** from **No. 60** drill Drill 2 No 60 holes above throttle valve and 1 No 60 hole drilled at random below throttle valve

FLANGE GASKET—P-24266

SPECIAL TOOLS REQUIRED—Use **Dodge** complete Tool Kit **SER-375** T-24733 Float Adj and power piston wrench T-24967 Main Discharge Jet Remover, T-24924 Main Metering Jet Wrench, T-24970 By-Pass Jet and Check Valve Tester, T-24972 Pump Capacity Burrette Gauge, T-24968 Handle T-19099 Main jet plug screwdriver

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MOTOR TUNE-UP DATA

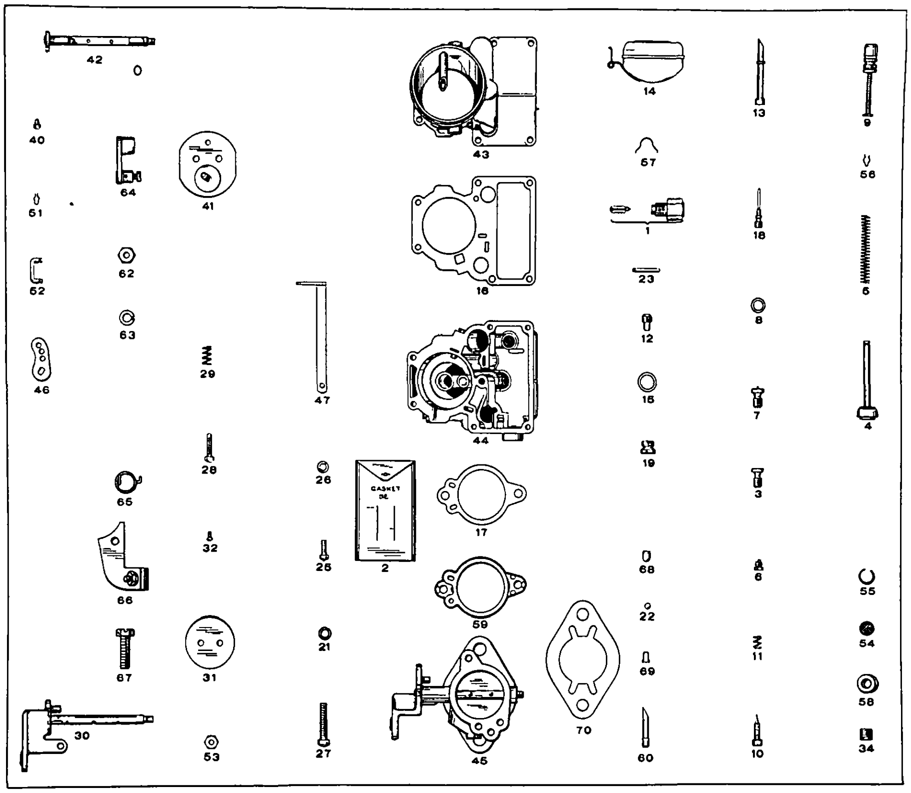
SPARK PLUG—.025".
Clean and adjust at regular intervals.

DISTRIBUTOR—.020".
Breaker gap set .020".
Replace if necessary.

IGNITION TIMING—Breaker contacts to open for No. 6 cylinder at T.D.C. when corresponding mark on impulse neutralizer is in line with pointer.

VALVES—Intake: .006".
Exhaust: .008". Engine hot.

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.



SERVICE REPLACEMENT PARTS LIST

Key No	Part No	Part Name	
1	P 24120	Float Needle Valve Clip and Seat	(NOT VAR)
2	J 5968 G	Complete Gasket Set	
3	P 24062	Pump By Pass Jet 2 No 56	(NOT VAR)
4	P 24039	Pump Piston Link and Spring	(Complete)
5	P 24102	Spring—Pump Duration	
6	P 18144	Pump Inlet Check Valve	
7	P 21197	Power By Pass Jet No 54	(NOT VAR)
8	P 19448	Gasket—By Pass Jet	
9	P-24043	Vacuum Power Piston	
10	P 17402	Idle Needle Valve	
11	P 15481	Spring—Idle Needle Valve	
12	P 19442	Metering Jet **058"**	(VAR)
13	P 24036	Main Discharge Jet No 28 36	(NOT VAR)
14	P 22081	Float with Lever	
15	P 10666	Gasket—Float Needle Valve Seat	
16	P 24624	Gasket—Air Horn	
17	P 24037	Gasket—Main Body	
18	P 21778	Idle Tube	
19	P 23902	Plug—Main Discharge Jet	
21	P 3157	Lockwasher—Main Body Attach Screw	
22	P 18772	Lead Ball	
23	P 23272	Fulcrum Pin—Float Lever	
25	P 3199	Screw—Air Horn Attaching	
26	P 1791	Lockwasher—Air Horn Attaching Screw	
27	P 22025	Screw—Main Body Attaching	
28	P 15456	Screw—Throttle Stop	
29	P 15831	Spring—Throttle Stop Screw	
30	P 24069	Throttle Lever and Stem	
31	P 24059	Throttle Valve 20°	
32	P 4522	Screw—Throttle Valve Attaching	
34	P 23269	Plug—Check Valve	
40	P 22573	Screw—Choke Valve Attach	
41	P 24046	Choke Valve	
42	P 24077	Choke Stem and Lever	
43	P 24709	Assy —Air Horn	
44	P 24791	Assy —Main Body **1-5/32"** Venturi (complete with High Speed Bleeder	(VAR)
45	P 24793	Assy —Throttle Body **No 56-58** (complete with throttle valve and stem)	(VAR)
46	P 21774	Pump Lever	
†47	P 24837	Pump Rod	
*49	P 19821	Spring—Washer—Pump Lever Fulcrum Screw	
51	P 19374	Cotter Pin—Pump Link	
†52	P 24836	Pump Link	
53	P 2290	Nut—Pump Lever Attach	
54	P 23270	Screen—Pump Strainer	
55	P 23271	Spring Clip—Pump Strainer Screen	
56	P 21338	Cotter Pin—Pump Stem—Stop Bushing	
57	P 23273	Spring—Float Fulcrum Pin	
58	P 24096	Bushing—Throttle Stop	
59	P 23857	Spacer—Main Body Insulator	
60	P 24045	Vent Tube	
*61	P 24215	Washer—Choke Stem Spacer	
62	P 16571	Nut—Choke Stem Spacer Washer Attach Nut	
63	P 6669	Lockwasher—Choke Stem Spacer Washer Attach Nut	
64	P 24081	Manual Choke Lever	
65	P 24080	Spring—Manual Choke Lever	
66	P 24086	Choke Tube Holder	
	P 2229	Screw—Choke Tube Clamp	
	P 2290	Nut—Choke Tube Clamp Screw	
	P 15875	Lockwasher—Choke Tube Clamp Screw	
67	P 24087	Screw—Choke Tube Holder Attach	
68	P 24315	High Speed Bleeder **No 68**	(VAR)
69	P 15459	Plug—Drive 1/4"	
70	P-24266	Flange Gasket	

***Note**—Parts Not Illustrated

PARTS EXCEPTIONS

No 380009 BXV-3 Chrysler—Symbol No 599298—Code No 3-58

Key No	Part No	Part Name	
1	P 24827	Float Needle Valve and Seat	(NOT VAR)

†**Note**—When ordering parts for Carburetors with Code No 3 43 specify—
P 24042 Pump Rod instead of P 24837 Key No 47
P 24041 Pump Link instead of P 24836 Key No 52

BENDIX PRODUCTS DIVISION

SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

STROMBERG SF-3 CARBURETOR

STROMBERG NO. A-18183 (CODE NO. 3-48) CHRYLSER SYMBOL NO. 585177

STROMBERG NO. A-18233 (CODE NO. 3-56) CHRYSLER SYMBOL NO. 597390

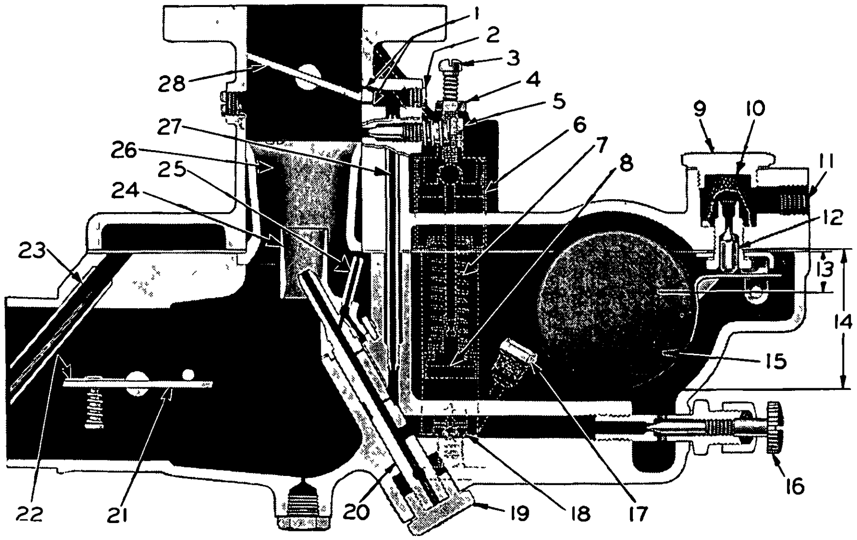
SIZE: 1-1/2″ UPDRAFT S.A.E. 2-15/16″ FLANGE CENTERS

Dodge Truck

1938 MODELS
RL-50, 51, 52, 53, RO-55, 56, 57, 58, RK-60, 61, 62, 63, RP-65, 66, 67, 68, RX-70, 71
1939 MODELS
TK-60, 61, 62, 63, TL-50, 51, 52, 53
3-3/4″ x 5″—6 cyl. Mod. T-44, 56, 80
1940 MODELS
VL-50, 51, 52, 53, VK-60, 61, 62, 63
3-3/4″ x 5″—6 cyl. T-44, 56, 104

PARTS ILLUSTRATED

1. Idle Discharge Holes
2. Idle Discharge Plug
3. Pump Adjustment Screw
4. Pump Adjustment Lock Screw
5. Idle Needle Valve
6. Vacuum Piston
7. Accelerating Pump Spring
8. Accelerating Pump Piston
9. Strainer Plug
10. Strainer
11. Gasoline Inlet
12. Float Needle Valve and Seat
13. Fuel Level (see instructions)
14. Float Setting (see instructions)
15. Float
16. Adjustable Metering Jet
17. Check Valve
18. Combination Power and Pump By-Pass Jet
19. Main Discharge Jet Nut
20. Main Discharge Jet
21. Choke Valve
22. Choke Poppet Valve
23. Vent Tube
24. Small Venturi
25. High Speed Bleed
26. Large Venturi
27. Idle Tube
28. Throttle Valve



Note—Specifications below are for latest production; previous major changes listed on parts page.

FUEL LEVEL—For measuring fuel level it is advisable to use on open vessel with a leveled top, large enough to support the throttle valve body and to accommodate the float assembly. Place main body gasket between body and vessel before checking. Connect gas line to inlet in throttle body and allow gas to feed into measuring vessel at **2 lbs.** pressure until flow is stopped by the closing of the float needle valve. Fuel level should measure **7/8″** below top surface of vessel (without gasket); use standard depth gauge for measuring fuel level. To correct fuel level hold throttle body in inverted position and set float to measure **2-1/4″** from top of float to gasket surface which will give approximate fuel level; change if necessary.

MAIN METERING SYSTEM — Venturi **1-3/16″**, P-16845 (for A-18183); **1-1/4″**, P-16845 (for A-18233); Main Discharge Jet **No. 28,** P-16863; (**Tool T-20180** used to remove main discharge jet plug). High Speed Bleeder **No. 65** P-14334; Main Metering Jet. **Adjustable:** P-12802 (for A-18183), P-15384 **.058″** (for A-18233). (Use new P-21372 main discharge jet gasket when replacing main discharge jet.)

POWER SYSTEM—Combination Power and Pump By-Pass Jet **.032″** P-16786 (for A-18183), **.034″** P-16786 (for A-18233) (**Tool T-20138**); Power System is brought into operation at **4″** to **6″** of manifold vacuum. Use **Tool T-23785** to remove pump inlet check valve.

ACCELERATION—Pump stroke adjusted by adjustment screw above pump vacuum piston. Screw "in" to shorten stroke, "out" to lengthen. Adjustment screw to be set 1/8″ below top surface of throttle body flange.

IDLE SYSTEM—Idle discharge holes **Nos. 58-66.** With throttle valve fully closed and **No. 58** drill in idle hole, edge of valve is located **Flush** + — **.004″** from **No. 58** drill. Idle tube **No. 68** P-16847; Adjust to smooth running, IN to make richer, OUT to make leaner.

FLANGE GASKET—P-24136.

SPECIAL TOOLS REQUIRED—T-20139 Main Discharge and Metering Jet; T-20138 By-Pass jet socket wrench; T-20180 Main Discharge Jet plug socket wrench; T-23785 Check valve socket wrench, T-20182 Bushing and vent tube remover; T-24972 Pump Burette gauge. T-20140 Float Needle valve seat socket wrench.

MOTOR TUNE-UP DATA

SPARK PLUG—.025″.
Clean and adjust at regular intervals.

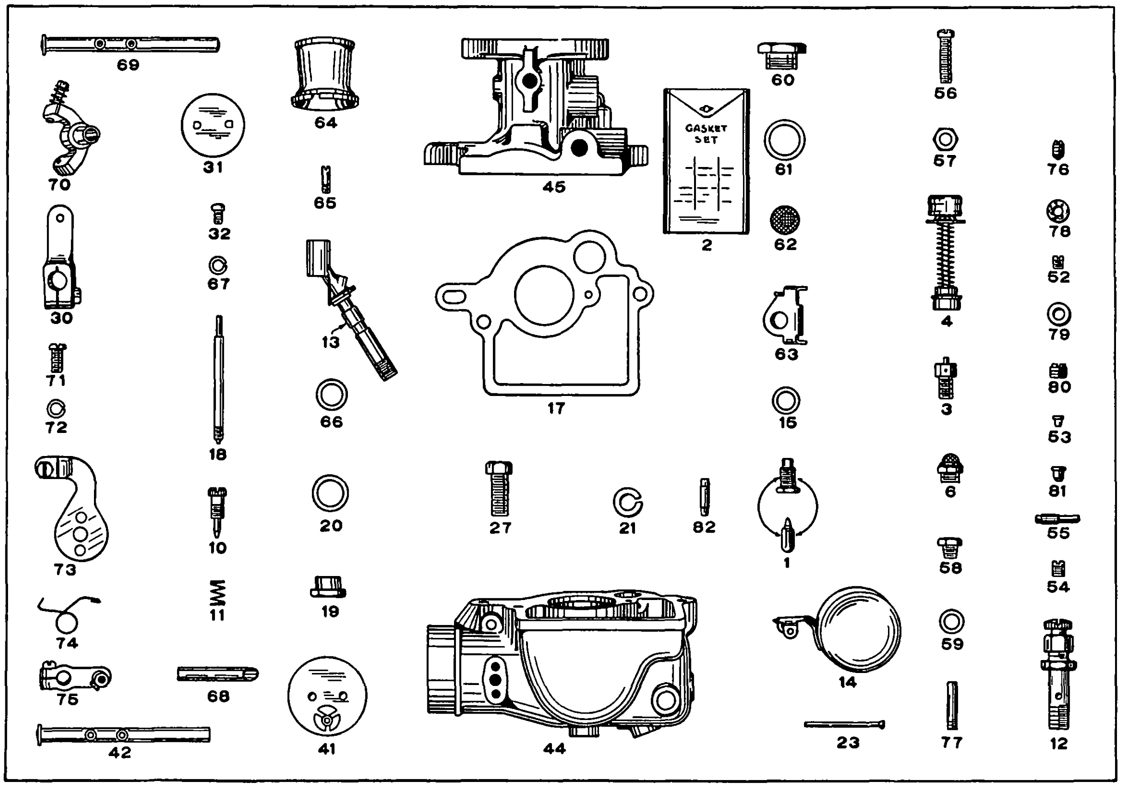
DISTRIBUTOR—.020″.
Breaker gap set .020″.
Replace if necessary.

IGNITION TIMING—Breaker contacts to open for No. 6 cylinder at T.D.C. when corresponding mark on impulse neutralizer is in line with pointer.

VALVES—Intake: .006″.
Exhaust: .010″. Engine hot.

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Key No	Part No	Part Name	
1	P 17282	Float Needle Valve and Seat	(NOT VAR)
2	J 4221 G	Complete Gasket Set	
3	P 16786	By Pass Jet 032′	(VAR)
4	P 23129	Pump Piston	
6	P 23135	Pump Inlet Check Valve	
10	P 15396	Idle Needle Valve	
11	P 12530	Spring—Idle Needle Valve	
12	P 12802	Adj Metering Jet	
13	P 16863	Main Discharge Jet **No** 28	(VAR)
14	P 16851	Float	
15	P 11572	Gasket—Float Needle Valve Jet	
17	P 16844	Gasket—Main Body	
18	P 16847	Idle Tube	
19	P 16762	Plug—Main Discharge Jet	
20	P 5635	Gasket—Main Discharge Jet Plug	
21	P 5364	Lockwasher—Main Body Attach Screw	
23	P 16760	Fulcrum Pin—Float Lever	
27	P 16849	Screw—Main Body Attach	
30	P 13498	Throttle Lever	
	P 15817	Screw—Throttle Lever Clamp	
31	P 12251	Throttle Valve	
32	P 15259	Screw—Throttle and Choke Valve Attach	
41	P 21758	Choke Valve	
42	P 22750	Choke Stem	
44	P 24847	Main Body	
45	P 24848	Throttle Body (Complete with **Nos** 58-66 Idle holes Throttle stem and valve)	(VAR)
52	P 7098	Plug—Vacuum Suction Channel	
53	P 15458	Plug—Pump Channel	
54	P 12780	Plug—Idle Discharge Hole	
55	P 16764	Pin—Choke Valve Stop	
56	P 19911	Screw—Vacuum Pump Adj	
57	P 14618	Nut—Vacuum Pump Adj Screw	
58	P 26	Plug—Gas Inlet	
59	P 6855	Gasket—Metering Jet	
60	P 17140	Plug—Strainer	
61	P 20235	Gasket—Strainer Plug	
62	P 12958	Strainer—Gas	
63	P 16761	Float Hanger	
64	P 16845	Venturi Tube 1-3/16′	(VAR)
65	P 16850	Pin—Main Discharge Jet Locating	
66	P 21372	Gasket—Main Discharge Jet	
67	P 1693	Lockwasher—Throttle and Choke Valve Att Screw	
68	P 16848	Vent Tube	
69	P 24289	Throttle Stem	
70	P 16795	Throttle Stop (Complete)	
	P 18552	Screw—Idle Adjust	
	P 15831	Spring—Idle Adjust Screw	
71	P 16766	Screw—Choke Tube Holder Attach	
72	P 3157	Lockwasher—Choke Tube Holder Attach Screw	
73	P 17879	Choke Tube Holder (Complete)	
	P 16807	Screw—Choke Tube Holder Clamp	
74	P 17468	Spring—Choke Valve Return	
75	P 22920	Choke Lever	
	P 15297	Screw—Wire Conn	
	P 3199	Screw—Clamp	
76	P 14745	Set Screw—Vent Tube	
77	P 14334	High Speed Bleeder **No** 65	(VAR)
78	P 14160	Gasket—Cork	
79	P 22713	Washer—Idle Tube	
80	P 3292	Plug—Governor Conn	
81	P 15459	Plug—Idle Drilling Hole	
82	P 3881	Pin—Choke Stem Separator	

PARTS EXCEPTIONS

Dodge Models VL-50, 51 52, 53, VK-60, 61, 62, 63
Engine Models T-104, T-56, T-14

A-18233, Code No 3-56, Symbol No 597390

Key No	Part No	Part Name	
3	**P-16786**	By Pass Jet 034′	(VAR)
12	**P-15384**	Metering Jet 058′	(VAR.)
64	**P-16845**	Venturi 1-1/4′	(VAR)

BENDIX PRODUCTS DIVISION

SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

STROMBERG SF-3 CARBURETOR

STROMBERG NO. A-18183 (CODE NO. 3-48) CHRYSLER SYMBOL NO 585177

STROMBERG NO. A-18233 (CODE NO. 3-56) CHRYSLER SYMBOL NO 597390

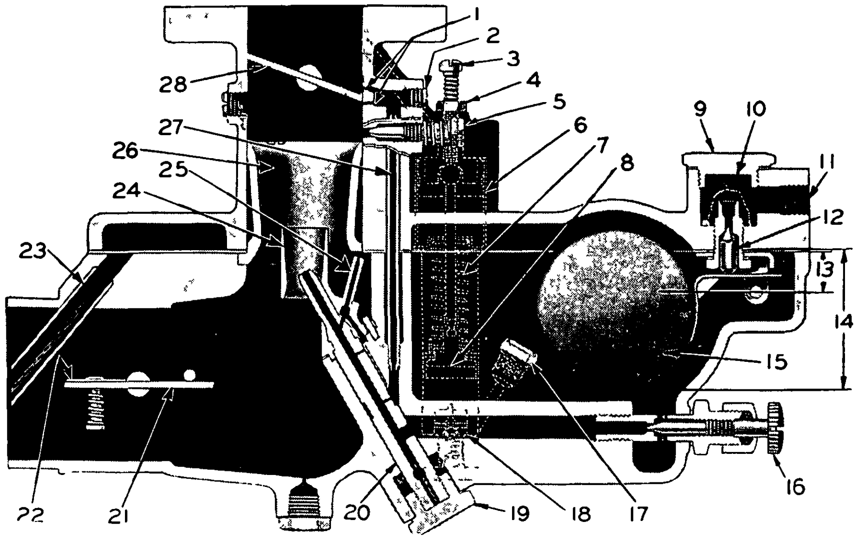
SIZE: 1-1/2" UPDRAFT S.A.E. 2-15/16" FLANGE CENTERS

Dodge Truck

1938 MODELS
RL-50, 51, 52, 53, RK-60 61, 62, 63, Eng Mod T-43—RO-55, 56 57, 58, RP-65, 66, 67, 68, Eng Mod T-56 RX-70, Eng Mod R-44, RX-71, Eng Mod T-44
1939 MODELS
TK-60, 61, 62, 63, TL-50, 51, 52, 53, Eng T-80
1940 MODELS
VL-50, 51, 52, 53, VK-60, 61, 62, 63, Eng T-104
1941 MODELS
WK-60, 61, 62, 63 WL-50, 51, 52, 53, Eng T-124

PARTS ILLUSTRATED

1. Idle Discharge Holes
2. Idle Discharge Plug
3. Pump Adjustment Screw
4. Pump Adjustment Lock Screw
5. Idle Needle Valve
6. Vacuum Piston
7. Accelerating Pump Spring
8. Accelerating Pump Piston
9. Strainer Plug
10. Strainer
11. Gasoline Inlet
12. Float Needle Valve and Seat
13. Fuel Level (see instructions)
14. Float Setting (see instructions)
15. Float
16. Adjustable Metering Jet
17. Check Valve
18. Combination Power and Pump By-Pass Jet
19. Main Discharge Jet Nut
20. Main Discharge Jet
21. Choke Valve
22. Choke Poppet Valve
23. Vent Tube
24. Small Venturi
25. High Speed Bleed
26. Large Venturi
27. Idle Tube
28. Throttle Valve



Note—Specifications below are for latest production; previous major changes listed on parts page.

FUEL LEVEL—For measuring fuel level it is advisable to use on open vessel with a leveled top, large enough to support the throttle valve body and to accommodate the float assembly. Place main body gasket between body and vessel before checking. Connect gas line to inlet in throttle body and allow gas to feed into measuring vessel at **2 lbs.** pressure until flow is stopped by the closing of the float needle valve. Fuel level should measure **7/8"** below top surface of vessel (without gasket); use standard depth gauge for measuring fuel level. To correct fuel level hold throttle body in inverted position and set float to measure **2-1/4"** from top of float to gasket surface which will give approximate fuel level; change if necessary.

MAIN METERING SYSTEM—Venturi **1-3/16"**, P-16845 (for A-18183); **1-1/4"**, P-16845 (for A-18233); Main Discharge Jet **No. 28,** P-16863; (**Tool T-20180** used to remove main discharge jet plug). High Speed Bleeder **No. 65** P-14334; Main Metering Jet. **Adjustable:** P-12802 (for A-18183), P-15384 **.058"** (for A-18233). (Use new P-21372 main discharge jet gasket when replacing main discharge jet.)

POWER SYSTEM—Combination Power and Pump By-Pass Jet **.032"** P-16786 (for A-18183), **.034"** P-16786 (for A-18233) (**Tool T-20138**); Power System is brought into operation at **4"** to **6"** of manifold vacuum. Use **Tool T-23785** to remove pump inlet check valve.

ACCELERATION—Pump stroke adjusted by adjustment screw above pump vacuum piston. Screw "in" to shorten stroke, "out" to lengthen. Adjustment screw to be set **1/8"** below top surface of throttle body flange.

IDLE SYSTEM—Idle discharge holes **Nos. 58-66.** With throttle valve fully closed and **No. 58** drill in idle hole, edge of valve is located **Flush** + — **.004"** from **No. 58** drill. Idle tube **No. 68** P-16847; Adjust to smooth running, IN to make richer, OUT to make leaner.

FLANGE GASKET—P-24136.

SPECIAL TOOLS REQUIRED—T-20139 Main Discharge and Metering Jet; T-20138 By-Pass jet socket wrench; T-20180 Main Discharge Jet plug socket wrench; T-23785 Check valve socket wrench, T-20182 Bushing and vent tube remover; T-24972 Pump Burette gauge. T-20140 Float Needle valve seat socket wrench.

MOTOR TUNE-UP DATA

SPARK PLUG—.025".
Clean and adjust at regular intervals.

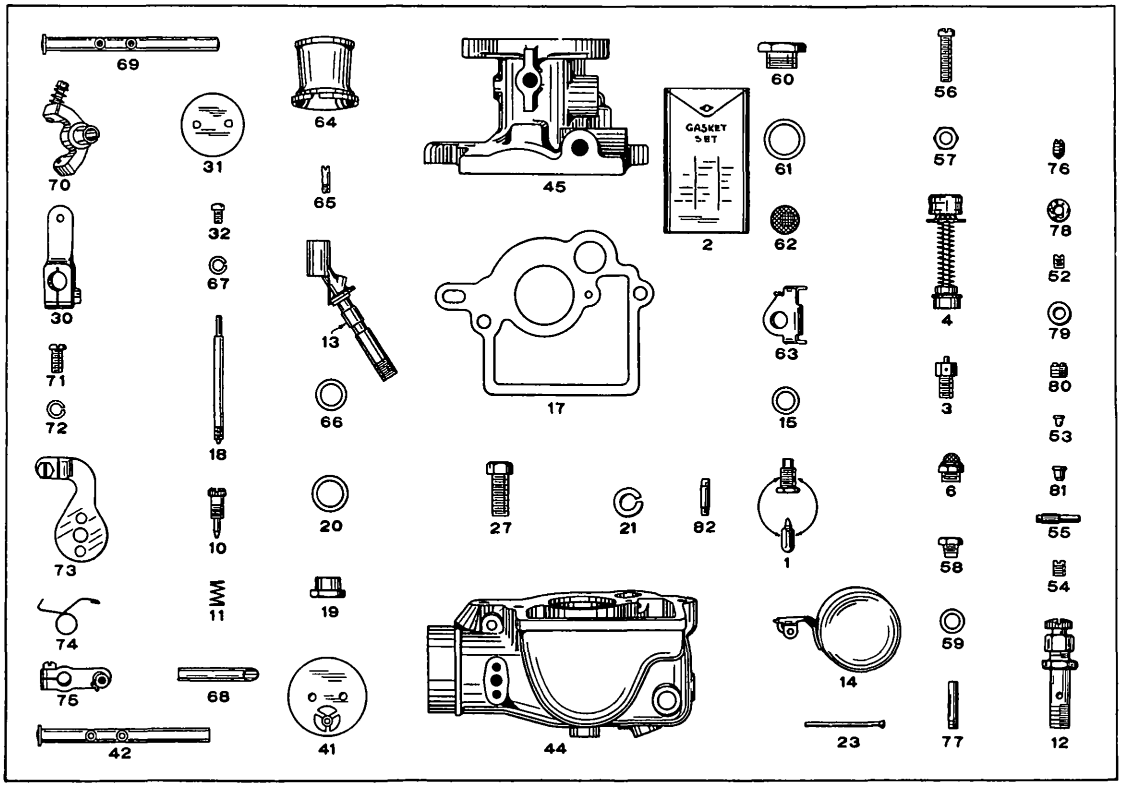
DISTRIBUTOR—.020".
Breaker gap set .020".
Replace if necessary.

IGNITION TIMING—Breaker contacts to open for No. 6 cylinder at T.D.C. when corresponding mark on impulse neutralizer is in line with pointer.

VALVES—Intake: .006".
Exhaust: .010". Engine hot.

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Key No	Part No	Part Name	
1	P 17282	Float Needle Valve and Seat	(NOT VAR)
2	J 4417 G	Complete Gasket Set	
3	P 16786	By Pass Jet **032"**	(VAR)
4	P 23129	Pump Piston	
6	P 23135	Pump Inlet Check Valve	
10	P 15396	Idle Needle Valve	
11	P 12530	Spring—Idle Needle Valve	
12	P 12802	Adj Metering Jet	
13	P 16863	Main Discharge Jet **No 28**	(VAR)
14	P 16851	Float	
15	P 11572	Gasket—Float Needle Valve Jet	
17	P 16844	Gasket—Main Body	
18	P 16847	Idle Tube	
19	P 16762	Plug—Main Discharge Jet	
20	P 5635	Gasket—Main Discharge Jet Plug	
21	P 5364	Lockwasher—Main Body Attach Screw	
23	P 16760	Fulcrum Pin—Float Lever	
27	P 16849	Screw—Main Body Attach	
30	P 13498	Throttle Lever	
	P 15817	Screw—Throttle Lever Clamp	
31	P 12251	Throttle Valve	
32	P 15259	Screw—Throttle and Choke Valve Attach	
41	P 21758	Choke Valve	
42	P 22750	Choke Stem	
44	P 24847	Main Body	
45	P 24848	Throttle Body (Complete with **Nos 58-66** Idle holes Throttle stem and valve)	(VAR)
52	P 7098	Plug—Vacuum Suction Channel	
53	P 15458	Plug—Pump Channel	
54	P 12780	Plug—Idle Discharge Hole	
55	P 16764	Pin—Choke Valve Stop	
56	P 19911	Screw—Vacuum Pump Adj	
57	P 14618	Nut—Vacuum Pump Adj Screw	
58	P 26	Plug—Gas Inlet.	
59	P 6855	Gasket—Metering Jet	
60	P 17140	Plug—Strainer	
61	P 20235	Gasket—Strainer Plug	
62	P 12958	Strainer—Gas	
63	P 16761	Float Hanger	
64	P 16845	Venturi Tube **1-3/16'**	(VAR)
65	P 16850	Pin—Main Discharge Jet Locating	
66	P 21372	Gasket—Main Discharge Jet	
67	P 1693	Lockwasher—Throttle and Choke Valve Att Screw	
68	P 16848	Vent Tube	
69	P 24289	Throttle Stem	
70	P 16795	Throttle Stop (Complete)	
	P 18552	Screw—Idle Adjust	
	P 15831	Spring—Idle Adjust Screw	
71	P 16766	Screw—Choke Tube Holder Attach	
72	P 3157	Lockwasher—Choke Tube Holder Attach Screw	
73	P 17879	Choke Tube Holder (Complete)	
	P 16807	Screw—Choke Tube Holder Clamp	
74	P 17468	Spring—Choke Valve Return	
75	P 22920	Choke Lever	
	P 15297	Screw—Wire Conn	
	P 3199	Screw—Clamp	
76	P 14745	Set Screw—Vent Tube	
77	P 14334	High Speed Bleeder **No 65**	(VAR)
78	P 14160	Gasket—Cork	
79	P 22713	Washer—Idle Tube	
80	P 3292	Plug—Governor Conn	
81	P 15459	Plug—Idle Drilling Hole	
82	P 3881	Pin—Choke Stem Separator	

PARTS EXCEPTIONS

A-18233, Code No 3-56, Symbol No 597390
Engine Models T-104, T-56, T-44

Key No	Part No	Part Name	
3	**P-16786**	By Pass Jet **034'**	(VAR)
12	**P-15384**	Metering Jet **058'**	(VAR)
64	**P-16845**	Venturi **1-1/4"**	(VAR)

BENDIX PRODUCTS DIVISION
SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

STROMBERG BXV-3 CARBURETOR

STROMBERG NO. A-18113 (CODE NO. 3-43A) CHRYSLER SYMBOL NO. 591384

STROMBERG NO. 380009 (CODE NO. 3-58) CHRYSLER SYMBOL NO. 599298

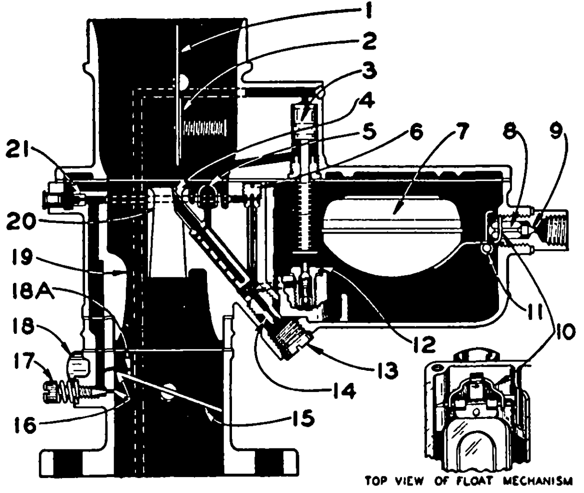
SIZE: 1-3/8″ D.D. S.A.E. 2-15/16″ FLANGE CENTER

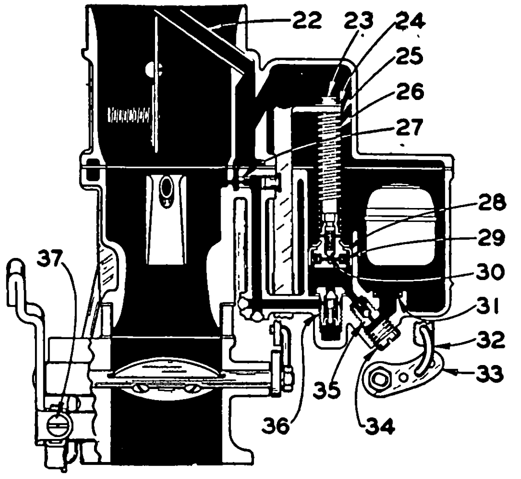
Dodge Truck

1939 MODELS
TD-15, 20, 21
1940 MODELS
VD-15, 20, 21
3-1/4″ x 4-3/8″—6 cyl.
Eng. Mod. T-94, 95, 97

PARTS ILLUSTRATED

1. Choke Valve
2. Choke Relief Valve
3. Vacuum Power Piston
4. Main Discharge Jet
5. High Speed Bleeder
6. Idle Tube
7. Float
8. Float Needle Valve
9. Float Needle Valve Seat
10. Float Fulcrum Pin Clip
11. Float Fulcrum Pin
12. Power By-Pass Jet
13. Main Jet Plug
14. Main Metering Jet
15. Throttle Valve
16. Idle Dis. Holes
17. Idle Needle Valve
18. Vacuum Spark Conn.
18A. Vacuum Spark Hole
19. Primary Venturi
20. Auxiliary Venturi
21. Idle Air Bleed
22. Float Chamber Vent
23. Piston Conn. Rod
24. Cotter Pin
25. Pump Piston Rod





26. Pump Duration Spring
27. Pump Discharge Nozzle
28. Pump Piston
29. Pump Piston Exp. Spring
30. Pump Relief Valve
31. Pump Inlet Strainer
32. Pump Link
33. Pump Lever
34. Pump Inlet Plug
35. Pump Inlet Check Valve
36. Pump By-Pass Jet
37. Throttle Stop Screw

Note—Specifications below are for latest production; previous major changes listed on parts page.

FUEL LEVEL—Measure **5/8″** below top surface of float chamber (without gasket) at 3 lbs. pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level).

MAIN METERING SYSTEM — Venturi **1-5/32″**; Main Discharge Jet **No. 28-36** P-24036 (**Tool T-24967**); High Speed Bleeder **No. 68** P-24315 in body. Main Metering Jet **.058″** P-19442 (**Tool T-24924**); Use **Tool T-19099** Screwdriver for removing main jet plug. Main metering system controls the flow of fuel up to approximately 65 to 70 M.P.H.

POWER SYSTEM—Power By-Pass Jet **No. 54** P-21197; Power jet to come into operation at 4″ to 6″ of manifold vacuum, which is approximately 65 to 70 M.P.H. (**Tool T-24733**) used to remove vacuum power piston.

ACCELERATION—Pump Discharge Nozzle **No. 70** in main body; Pump By-Pass Jet **2 No. 56**; Pump capacity **11** to **14** c.c. per 10 slow strokes with pump rod link set in middle setting. Pump Travel 1/4″-9/32″. Pump action takes place during acceleration period only. (**Tool T-24972.**)

IDLE SYSTEM—Idle Discharge holes **Nos. 56-58.** With throttle valve fully closed and **No. 58** drill in idle hole, edge of valve is locased **Flush** + .006″-.000″ from **No. 58** drill; Idle Air Bleed **No. 54** in main body; Idle Tube **No. 70** P-21778. **Adjustment:** Adjust to smooth running, OUT to make richer and IN to make leaner; throttle at 7 to 8 M.P.H.

VACUUM SPARK CONTROL—With throttle fully closed and **No. 60** drill in spark hole, edge of valve is located **Flush** from **No. 60** drill. Drill 2 No. 60 holes above throttle valve and 1 No. 60 hole drilled at random below throttle valve.

FLANGE GASKET—P-24266.

SPECIAL TOOLS REQUIRED—Use **Dodge** complete Tool Kit **SER-375** T-24733 Float. Adj. and power piston wrench T-24967 Main Discharge Jet Remover; T-24924 Main Metering Jet Wrench; T-24970 By-Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burrette Gauge; T-24968 Handle. T-19099 Main jet plug screwdriver.

MOTOR TUNE-UP DATA

SPARK PLUG—.025″.
Clean and adjust at regular intervals.

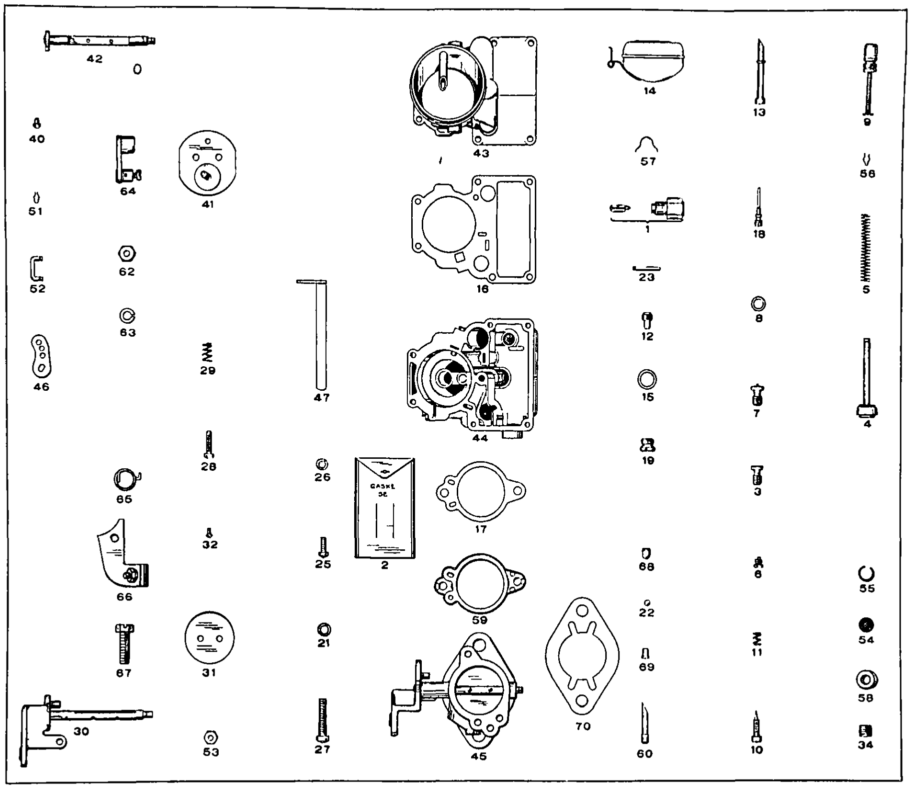
DISTRIBUTOR—.020″.
Breaker gap set .020″.
Replace if necessary.

IGNITION TIMING—**Breaker contacts to open for No. 6 cylinder at T.D.C. when corresponding mark on impulse neutralizer is in line with pointer.**

VALVES—**Intake: .006″.**
Exhaust: .008″. Engine hot.

SERVICE RECOMMENDATION—**Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.**

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Key No	Part No	Part Name	
1	P 24120	Float Needle Valve Clip and Seat	(NOT VAR)
2	J 5968 G	Complete Gasket Set	
3	P 24062	Pump By Pass Jet 2 No 56	(NOT VAR)
4	P 24039	Pump Piston Link and Spring	(Complete)
5	P 24102	Spring—Pump Duration	
6	P 18144	Pump Inlet Check Valve	
7	P 21197	Power By Pass Jet No 54	(NOT VAR)
8	P 19448	Gasket—By Pass Jet	
9	P 24043	Vacuum Power Piston	
10	P 17402	Idle Needle Valve	
11	P 15481	Spring—Idle Needle Valve	
12	P 19442	Metering Jet 058"	(VAR)
13	P 24036	Main Discharge Jet No 28 36	(NOT VAR)
14	P 22081	Float with Lever	
15	P 10666	Gasket—Float Needle Valve Seat	
16	P 24624	Gasket—Air Horn	
17	P 24037	Gasket—Main Body	
18	P 21778	Idle Tube	
19	P 23902	Plug—Main Discharge Jet	
21	P 3157	Lockwasher—Main Body Attach Screw	
22	P 18772	Lead Ball	
23	P 23272	Fulcrum Pin—Float Lever	
25	P 3199	Screw—Air Horn Attaching	
26	P 1791	Lockwasher—Air Horn Attaching Screw	
27	P 22025	Screw—Main Body Attaching	
28	P 15456	Screw—Throttle Stop	
29	P 15831	Spring—Throttle Stop Screw	
30	P 24069	Throttle Lever and Stem	
31	P 24059	Throttle Valve 20°	
32	P 4522	Screw—Throttle Valve Attaching	
34	P 23269	Plug—Check Valve	
40	P 22573	Screw—Choke Valve Attach	
41	P 24046	Choke Valve	
42	P 24077	Choke Stem and Lever	
43	P 24709	Assy —Air Horn	
44	P 24791	Assy —Main Body **1-5/32′** Venturi (complete with High Speed Bleeder	(VAR)
45	P 24793	Assy —Throttle Body **No 56-58** (complete with throttle valve and stem)	(VAR)
46	P 21774	Pump Lever	
†47	P 24837	Pump Rod	
*49	P 19821	Spring—Washer—Pump Lever Fulcrum Screw	
51	P 19374	Cotter Pin—Pump Link	
†52	P 24836	Pump Link	
53	P 2290	Nut—Pump Lever Attach	
54	P 23270	Screen—Pump Strainer	
55	P 23271	Spring Clip—Pump Strainer Screen	
56	P 21338	Cotter Pin—Pump Stem—Stop Bushing	
57	P 23273	Spring—Float Fulcrum Pin	
58	P 24096	Bushing—Throttle Stop	
59	P 23857	Spacer—Main Body Insulator	
60	P 24045	Vent Tube	
*61	P 24215	Washer—Choke Stem Spacer	
62	P 16571	Nut—Choke Stem Spacer Washer Attach Nut	
63	P 666°	Lockwasher—Choke Stem Spacer Washer Attach Nut	
64	P 24081	Manual Choke Lever	
65	P 24080	Spring—Manual Choke Lever	
66	P 24086	Choke Tube Holder	
	P 2229	Screw—Choke Tube Clamp	
	P 2290	Nut—Choke Tube Clamp Screw	
	P 15875	Lockwasher—Choke Tube Clamp Screw	
67	P 24087	Screw—Choke Tube Holder Attach	
68	P 24315	High Speed Bleeder **No 68**	(VAR)
69	P 15459	Plug—Drive 1/4"	
70	P 24266	Flange Gasket	

***Note**—Parts Not Illustrated

PARTS EXCEPTIONS

1940 Dodge Truck T-94—Model VD-15 20, 21—No 380009
BXV-3 Chrysler—Symbol No 599298—Code No 3-58

Key No	Part No	Part Name	
1	P 24827	Float Needle Valve and Seat	(NOT VAR)

†**Note**—When ordering parts for Carburetors with Code No 3 43 specify—
P 24042 Pump Rod instead of P 24837 Key No 47
P 24041 Pump Link instead of P 24836 Key No 52

BENDIX PRODUCTS DIVISION

SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

STROMBERG "BXOV-2" CARBURETOR

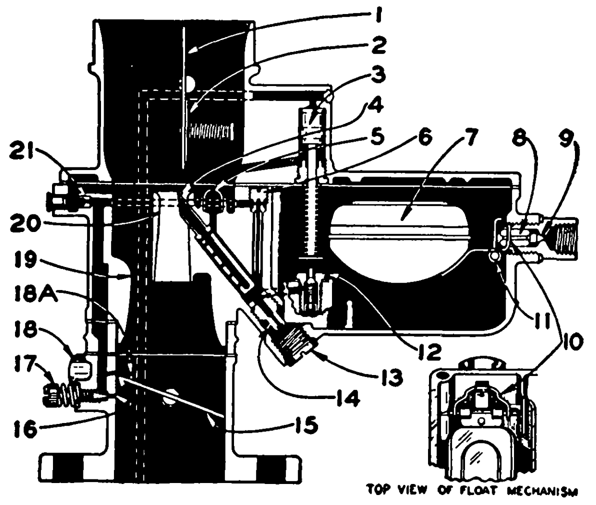
STROMBERG NO. A-19042 (CODE NO. 3-46)

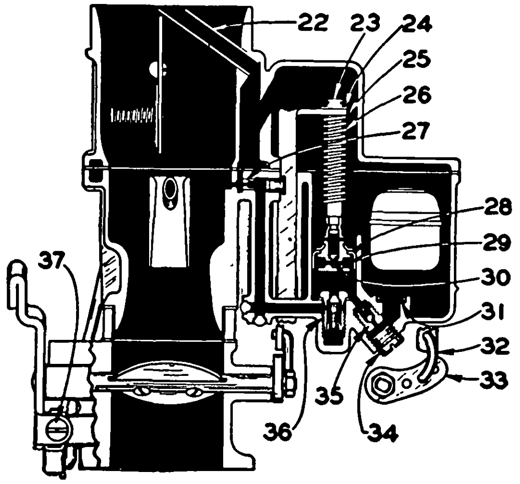
SIZE: 1-3/8" D. D. S.A.E. 2 11/16" FLANGE CENTERS

1933-38
Dodge Truck
MODELS
HC, HCL, K-20, 21, 30, 31, 32, 33, 34, KC, KCL, KH-16, 17, 18, 21, 22, 23, 31, 32, 33, K-19, 32, 33, 34, LC, LE-30, 31, 35, LF-35, 36, 37, MC, MD-20, 21, ME-15, 16, 17, 20, 21, 22, 30, 31, RC, RD-15, 16, 20, 21, RE-15, 16, 17, 20-1-2, 30

PARTS ILLUSTRATED

1. Choke Valve
2. Choke Relief Valve
3. Vacuum Power Piston
4. Main Discharge Jet
5. High Speed Bleeder
6. Idle Tube
7. Float
8. Float Needle Valve
9. Float Needle Valve Seat
10. Float Fulcrum Pin Clip
11. Float Fulcrum Pin
12. Power By-Pass Jet
13. Main Jet Plug
14. Main Metering Jet
15. Throttle Valve
16. Idle Discharge Holes
17. Idle Needle Valve
18. Vacuum Spark Conn.
18A. Vacuum Spark Hole
19. Primary Venturi
20. Auxiliary Venturi
21. Idle Air Bleed
22. Float Chamber Vent
23. Piston Conn. Rod
24. Cotter Pin
25. Pump Piston Rod
26. Pump Duration Spring
27. Pump Discharge Nozzle
28. Pump Piston
29. Pump Piston Exp. Spring
30. Pump Relief Valve
31. Pump Inlet Strainer
32. Pump Link
33. Pump Lever
34. Pump Inlet Plug
35. Pump Inlet Check Valve
36. Pump By-Pass Jet
37. Throttle Stop Screw





Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **5/8"** below top surface of float chamber (without gasket) at 3 lbs. pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level).

MAIN METERING SYSTEM—Venturi **1-5/32"**; Main Discharge Jet **No. 28-36** P-24036 (**Tool T-24967**); High Speed Bleeder **No. 68** P-24315. Main Metering Jet .060" P-19442 (Tool T-24924); Adjustable Metering Jet .060" P-24268. Main metering system controls the flow of fuel up to approximately 65 to 70 M.P.H.

POWER SYSTEM—Power By-Pass Jet **No. 54** P-21197; Power jet to come into operation at 4" to 6" of manifold vacuum, which is approximately 65 to 70 M.P.H. (**Tool T-24733**) used to remove vacuum power piston.

ACCELERATION—Pump Discharge Reducer **No. 70** in main body; Pump By-Pass Jet **2 No. 56**; Pump capacity **11** to **14** c.c. per 10 slow strokes with pump rod link set in middle setting. (**Tool T-24972**) Pump action takes place during acceleration period only.

IDLE SYSTEM—Idle Discharge holes **Nos. 56-58.** With throttle valve fully closed and **No. 58** drill in idle hole, edge of valve is located **Flush** + **.006"-.000"** from **No. 58** drill; Idle Air Bleed **No. 54** P-20470; Idle Tube **No. 70** P-21778. Adjustment: Adjust to smooth running, OUT to make richer and IN to make leaner; throttle at 7 to 8 M.P.H.

VACUUM SPARK CONTROL—Drill **2 No. 60** holes above throttle valve, **1 No. 60** hole drilled at random below valve. With throttle fully closed and **No. 60** drill in spark hole above valve, edge of valve is located **Flush** from **No. 60** drill.

FLANGE GASKET—P-24314—4 slots. P-24264—1 elongated slot—use with governor.

SPECIAL TOOLS REQUIRED—T-24733 Float. Adj. and power piston wrench T-24967 Main Discharge Jet Remover; T-24924 Main Metering Jet Wrench; T-24970 By-Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burrette Gauge; T-24968 Handle. T-19099 Main jet plug screwdriver.

MOTOR TUNE-UP DATA

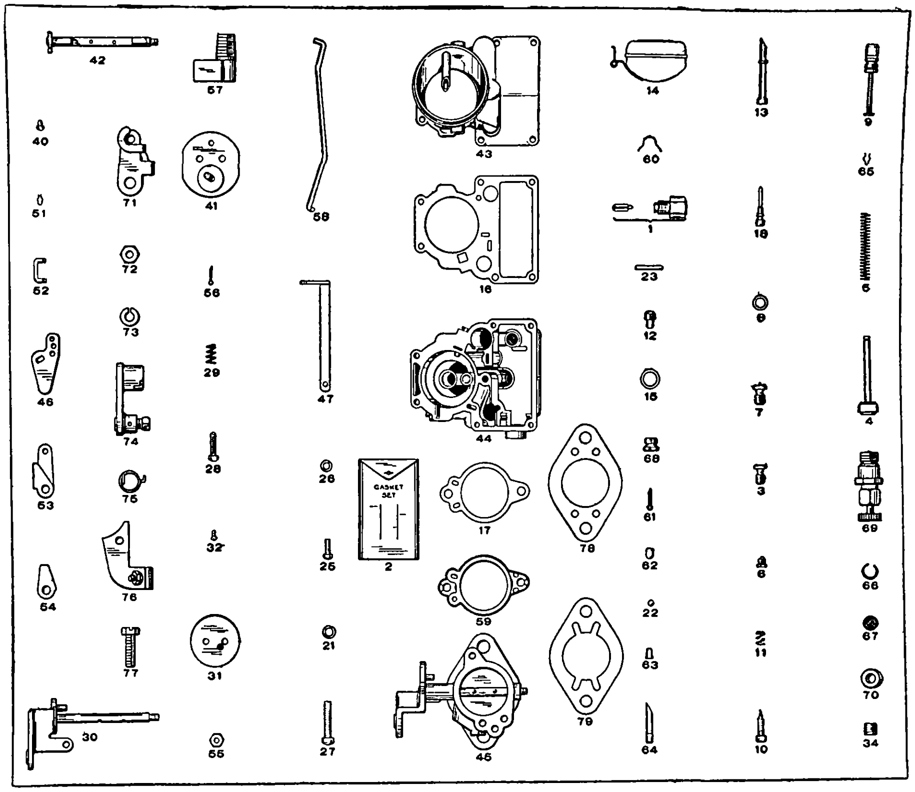
SPARK PLUG—
Clean and adjust at regular intervals.

DISTRIBUTOR—Set breaker gap.
Replace points if necessary.

VALVES—Intake, Exhaust.
Adjust with engine hot.

IGNITION TIMING—Use timing light.

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No.	Part No	Part Name	
	1	P 24063	Float Needle Valve and Seat 086"	(NOT VAR)
	2	J 5409-G	Complete Gasket Set	
	3	P-24062	Pump By Pass Jet No 56	(NOT VAR)
	4	P-24039	Pump Piston and Stem (Complete)	
	5	P-24287	Spring—Pump Duration	
	6	P-18144	Pump Inlet Check Valve	
	7	P-21197	Power By Pass Jet No 54	(NOT VAR)
	8	P-19448	Gasket—By Pass Jet	
	9	P-24043	Vacuum Power Piston	
	10	P-17402	Idle Needle Valve	
	11	P-15481	Spring—Idle Needle Valve	
	12	P-19442	Metering Jet 058"	(VAR)
	13	P-24036	Main Discharge Jet No 28 36	(NOT VAR)
	14	P-22081	Float with Lever	
	15	P-10666	Gasket—Float Needle Valve Seat	
	16	P-24053	Gasket—Air Horn	
	17	P-24037	Gasket—Main Body	
	18	P-21778	Idle Tube	
	19	P-23902	Plug—Main Discharge Jet	
	21	P-3157	Lockwasher—Main Body Attach Screw	
	22	P-18772	Lead Ball	
	23	P-23272	Pin—Fulcrum—Float Lever	
	25	P-3199	Screw—Air Horn Attach	
	26	P-1791	Lockwasher—Air Horn Attach Screw	
	27	P-22025	Screw—Main Body Attach	
	28	P-15456	Screw—Throttle Stop	
	29	P-15831	Spring—Throttle Stop Screw	
	30	P-24234	Throttle Lever and Stem	
	31	P-24059	Throttle Valve (20°)	(NOT VAR)
	32	P-4522	Screw—Throttle Valve Attach	
	34	P-23269	Plug—Check Valve Channel	
	40	P-22573	Screw—Choke Valve Attach	
	41	P-24046	Choke Valve	
	42	P-24077	Choke Lever and Stem	
	43	P-24709	Air Horn Assembly	
	44	P-24791	Main Body 1-5/32" Venturi, **No** 68 H S Bleeder, **No** 54 Idle Air Bleeder **No** 70 Pump Disch Tube	(VAR)
		P-20470	Idle Air Bleed No 54	(NOT VAR.
	45	P-24795	Throttle Body with Pin **No** 56-58 Idle Disch Holes **No** 60 Spark Control Holes	(VAR)
	46	P-23666	Pump Lever	
	47	P-24042	Pump Rod	
	51	P-19374	Cotter Pin—Pump Link	
	52	P-18368	Pump Link	
	53	P-23621	Lever—Fast Idle	
	54	P-23622	Cam—Fast Idle	
	55	P-2290	Nut—Pump Lever Attach	
	56	112-S 22	Cotter Pin—Fast Idle Rod	
	57	P-17481	Elbow Union	
	58	P-24060	Rod—Fast Idle	
	59	P-23857-T	Spacer—Main Body Insulator	
	60	P-23273	Spring—Float Fulcrum Pin	
	61	P-7170	Cotter Pin—Fast Idle Lever	
	62	P-24315	High Speed Bleeder No 68	(NOT VAR)
	63	P-15459	Plug—Idle Air Bleed and Pump Disch Channel	
	64	P-24045	Vent Tube	
	65	P-21338	Cotter Pin—Pump Stem	
	66	P-23271	Spring Clip—Pump Strainer Screw	
	67	P-23270	Screen—Pump Strainer	
	68	P-3292	Plug—Governor Connection	
	69	P-24268	Adjustable Metering Jet	
	70	P-24215	Washer—Pump Stem	
	71	P-24052	Lever—Auto Choke	
	72	P-16571	Nut—Auto Choke Lever Attach	
	73	P-6668	Lockwasher—Auto Choke Lever Attach Nut	
	74	P-24081	Manual Choke Lever	
	75	P-24080	Spring—Manual Choke Lever	
	76	P-24086	Choke Tube Holder	
		P-2229	Screw—Choke Tube Clamp	
		P-2290	Nut—Choke Tube Clamp Screw	
		P-15875	Lockwasher—Choke Tube Clamp Screw	
	77	P-24087	Screw—Choke Tube Holder Attach	
	78	P-24264	Flange Gasket	
	79	P-24314	Flange Gasket	

BENDIX PRODUCTS DIVISION

SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

Printed in U S A.

STROMBERG "BXV-3" CARBURETOR

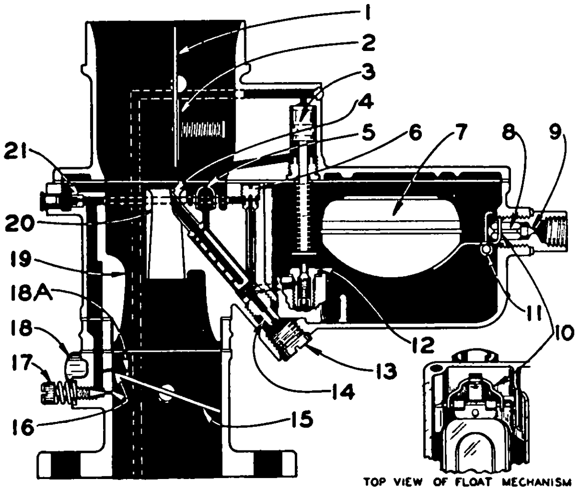
STROMBERG NO. A-18073 (CODE NO. 3-39) DODGE SYMBOL 693932
(MANUAL CHOKE) STROMBERG NO. A-18093 (CODE NO. 3-41) DODGE SYMBOL 693934
(D-11 EXPORT) STROMBERG NO. A-18083 (CODE NO. 3-40) DODGE SYMBOL 693933

SIZE: 1⅜" S. A. E. 2-15/16" FLANGE CENTERS

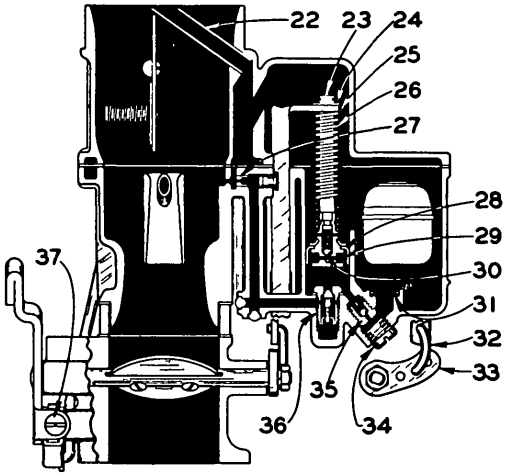
1939
DODGE
MODELS
"D-11 & D-11 EXP."
3¼"x4⅜"—6 cyl.

PARTS ILLUSTRATED

1 Choke Valve
2 Choke Relief Valve
3 Vacuum Power Piston
4 Main Discharge Jet
5 High Speed Bleeder
6 Idle Tube
7 Float
8 Float Needle Valve
9 Float Needle Valve Seat
10 Float Fulcrum Pin Clip
11 Float Fulcrum Pin
12 Power By Pass Jet
13 Main Jet Plug
14 Main Metering Jet
15 Throttle Valve
16 Idle Dis Holes
17 Idle Needle Valve
18 Vacuum Spark Conn
18A Vacuum Spark Hole
19 Primary Venturi
20 Auxiliary Venturi
21 Idle Air Bleed
22 Float Chamber Vent
23 Piston Conn Rod
24 Cotter Pin
25 Pump Piston Rod
26 Pump Duration Spring
27 Pump Discharge Nozzle
28 Pump Piston
29 Pump Piston Exp Spring
30 Pump Relief Valve
31 Pump Inlet Strainer
32 Pump Link
33 Pump Lever
34 Pump Inlet Plug
35 Pump Inlet Check Valve
36 Pump By-Pass Jet
37 Throttle Stop Screw



TOP VIEW OF FLOAT MECHANISM



Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure ⅝" below top surface of float chamber (without gasket) @ 3 lbs. pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level).

MAIN METERING SYSTEM—Venturi **1-5/32"**; Main Discharge Jet **No. 28-36** P-24036 **(Tool T-24967)**; High Speed Bleeder **No. 68** P-24315; Main Metering Jet **.058"** P-19442 **(Tool T-24924)**; **(Tool T-19099)** used with main jet plug. Main Metering system controls the flow of fuel up to approximately 65 to 70 M. P. H.

POWER SYSTEM—Power By-Pass Jet **No. 54** P-21197; Power jet to come into operation at **4"** to **6"** of manifold vacuum, which is approximately 65 to 70 M P. H. **(Tool T-24733)** used for removing P-24043 vacuum power piston.

ACCELERATION — Pump Discharge Reducer **No. 70** (in body); Pump By-Pass Jet **2 No. 56** P-24062; Pump capacity **11** to **14** c.c. per 10 slow strokes (middle adjustment) **(Tool T-24972)** Pump Travel **¼"** to **9/32"**; Pump action takes place during acceleration period only.

IDLE SYSTEM—Idle Discharge holes **Nos. 56-58**; with throttle valve fully closed and **No. 58** drill in idle hole, edge of valve is located **Flush + .006" — .000"** from **No. 58** drill; Idle Air Bleed **No. 54** (in main body) Idle Tube **No. 70** P-21778; **Adjustment:** Adjust to smooth running OUT to make richer and IN to make leaner; throttle at 6 M. P. H.

VACUUM SPARK CONTROL—With throttle fully closed and **2 No. 60** drills in spark hole, edge of valve is located Flush from both No. 60 holes; **1 No. 60** hole drilled at random below throttle valve.

FLANGE GASKET—P-24266.

SPECIAL TOOLS REQUIRED—Use Dodge complete Tool Kit **SER. 375.** T-24733 Float Bender and Power piston wrench; T-24967 Main Discharge Jet Remover; T-24924 Main Metering Jet Wrench; T-24970 By-Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burrette Gauge; T-24968 Handle. T-19099 Main jet plug screw driver.

MOTOR TUNE UP DATA

SPARK PLUG—.025".
Clean and adjust at regular intervals.

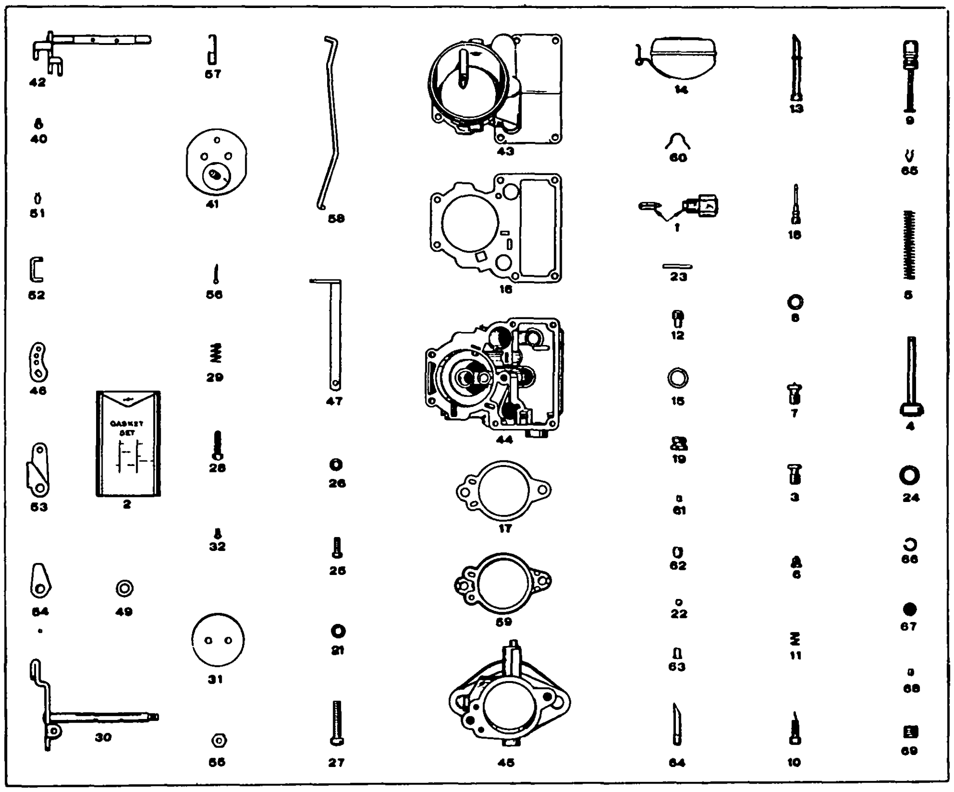
DISTRIBUTOR—.020".
Breaker gap set .020". Replace if necessary.

VALVES—Intake: .006"; Exhaust: .008".
Engine hot.

IGNITION TIMING—Breaker contacts to open for No. 6 cylinder at T. D. C. when corresponding mark on impulse neutralizer is in line with pointer.

SERVICE RECOMMENDATION — Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key N.	Part N.	Part Name	
	1	P-24063	Float needle valve and seat .086	(NOT VAR.)
	2	J-5409-G	Complete gasket set	
	3	P-24062	Pump by-pass jet No 56	(NOT VAR.)
	4	P-24039	Pump piston and stem	(Includes P-16960)
	5	P-24102	Spring—pump duration	
	6	P 18144	Pump inlet check valve	
	7	P 21197	Power by-pass jet No 54	(NOT VAR.)
	8	P-19448	Gasket—by-pass jets	
	9	P-24043	Vacuum power piston	
	10	P-17402	Idle needle valve	
	11	P 15481	Spring—idle needle valve	
	12	P-19442	Metering jet—.058"	(VAR)
	13	P 24036	Main discharge jet No 28-36	(NOT VAR.)
	14	P-22081	Float and lever	
	15	P-10666	Gasket—float needle valve seat	
	16	P-24053	Gasket—air horn	
	17	P 24037	Gasket—main body	
	18	P 21778	Idle tube	
	19	P 23902	Plug—main discharge jet	
	21	P-3157	Lockwasher—main body attaching screw	
	22	P-18772	Lead ball	
	23	P-23272	Pin-fulcrum-float lever	
	24	P 16960	Spring—piston pump leather expansion	
	25	P-3199	Screw—air horn attaching	
	26	P-1791	Lockwasher—air horn attaching screw	
	27	P 22025	Screw—main body attaching	
	28	P 15456	Screw—idle adj	
	29	P-15831	Spring—Idle adj screw	
	30	P-24055	Throttle lever and stem	
	31	P 24059	Throttle valve (20°)	(NOT VAR.)
	32	P-4522	Screw—throttle valve attaching	
	40	P 22573	Screw—choke valve attaching	
	41	P-24046	Choke valve	
	42	P-24050	Choke lever and stem	
	43	P 23853-T	Air horn	
	43 A	P 24044	Assembly air horn and valve	
	44	P 23850	Assembly—main body 1-5/32" venturi No 68 H S bleed No 54 idle air bleed	(VAR.)
	45	P-23855	Assy —throttle body Nos 56-58 Idle disch holes and vac spark holes	(VAR.)
	46	P-21774	Pump lever	
	47	P-24042	Pump rod	
	49	P 19821	Spring washer—pump lever fulcrum screw	
	51	P-19374	Cotter pin—pump link	
	52	P-24041	Pump link	
	53	P-23621	Lever—fast idle cam	
	54	P-23622	Cam— fast idle	
	55	P 2290	Nut—pump lever attaching	
	56	112-s 22	Cotter pin—fast idle rod	
	57	P-24054	Pin—stop-throttle body	
	58	P-24060	Fast idle rod	
	59	P-23857-T	Spacer—main body (insulator)	
	60	P-23273	Spring—float fulcrum pin	
	61	P-20470	Idle air bleeder No 54	(NOT VAR.)
	62	P-24315	High speed bleeder No 68	(NOT VAR.)
	63	P-15459	Plug—drive ¼"	
	64	P-24045	Vent tube	
	65	P-21338	Cotter pin—pump stem	
	66	P-23271	Spring clip—pump strainer screen	
	67	P-23270	Screen—pump strainer	
	68	P 24067	Reducer—pump discharge No 70	(NOT VAR.)
	69	P 23269	Plug—pump check valve channel ⅜—24	

NOTE—For parts marked (VAR.) size must be specified when ordering.

PARTS EXCEPTIONS

Dodge, D 11 Export
A-18083—Code No. 3-40—Symbol No. 693933

Bin Location	Key No.	Part No.	Part Name
	30	P 24069	Throttle lever and stem

Dodge, D-11
(With manual choke control)
A-18093—Code No. 3-41—Symbol No. 693934

Bin Location	Key No.	Part No.	Part Name
	42	P-24077	Choke stem and lever
	43	P-24075-T	Air horn
		P-24076	Bushing—choke stem
	43-A	P 24074	Assy air horn and valve
None shown		P-24052	Fast idle choke lever
None shown		P-16571	Fast idle choke lever attach nut
None shown		P-6668	Fast idle choke lever attach nut lockwasher
None shown		P 24081	Choke lever with wire connector and screw
None shown		P 12867	Wire connector screw
None shown		P 24080	Choke lever spring
None shown		P-24086	Assy Tube holder
None shown		P 24084	Holder
None shown		P 2229	Holder clamp screw
None shown		P 2290	Holder clamp screw nut
None shown		P-15875	Holder clamp screw nut lockwasher
None shown		P 24087	Screw—choke tube holder attach

BENDIX PRODUCTS DIVISION
SOUTH BEND **OF BENDIX AVIATION CORPORATION** **INDIANA**

STROMBERG "EXV-2" CARBURETOR

STROMBERG NO. A-18712 (CODE NO. 3-36A) DODGE SYMBOL 685270
(FOR D-8 EXPORT) STROMBERG NO. A-18722 (CODE NO. 3-37) DODGE SYMBOL 686515

SIZE: 1¼" S. A. E. 2-11/16" FLANGE CENTERS

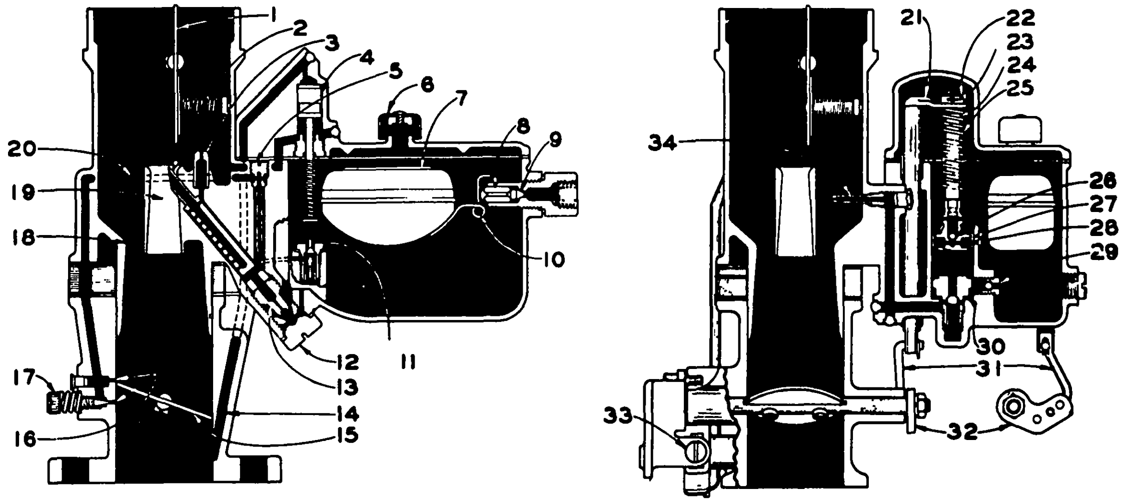
REPLACE A-18712 WITH BXOV-2 EQPT. A-19032
REPLACE A-18722 WITH BXOV-2 EQPT. A-19042

1938 DODGE

MODELS
"D-8"
"D-8 EXPORT"
3¼"x4⅜"—6 cyl.

PARTS ILLUSTRATED

1. Choke Valve
2. Main Discharge Jet
3. High Speed Bleeder
4. Vacuum Power Piston
5. Idle Tube
6. Float Chamber Vent
7. Float
8. Float Needle Valve
9. Float Needle Valve Seat
10. Float Fulcrum Pin
11. Power By-Pass Jet
12. Main Discharge Jet Plug
13. Main Metering Jet
14. Vacuum Passage
15. Throttle Valve
16. Idle Disch Holes
17. Idle Needle Valve
18. Primary Venturi
19. Auxiliary Venturi
20. Idle Channel
21. Pump Rod
22. Pump Adjustment Nut
23. Cotter Pin
24. Pump Piston Connecting Rod
25. Pump Duration Spring
26. Pump Relief Valve
27. Pump Piston
28. Piston Expansion Spring
29. Pump Inlet Check Valve
30. Pump By-Pass Jet
31. Pump Link
32. Pump Lever
33. Throttle Stop Screw
34. Pump Disch Nozzle



Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **5/8"** below top surface of float chamber (without gasket) at 3 lbs. pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level).

MAIN METERING SYSTEM—Venturi **1-5/32"**; Main Discharge Jet **No. 28-36** P-23638 **(Tool T-24967)**; high Speed Bleeder **No. 70** P-22764; Main Metering Jet **.058"** P-17004 **(Tool T-23844)**; **(Tool T-19099)** used to remove main jet plug; Main Metering system controls the flow of fuel up to approximately 65 to 70 M. P. H.

POWER SYSTEM—Power By-Pass Jet **No. 55** P-23676; Power jet to come into operation at **4"** to **6"** of manifold vacuum, which is approximately 65 to 70 M. P. H. **(Tool T-24733)** used to remove P-21074 vacuum power piston.

ACCELERATION — Pump Discharge Nozzle **No. 70** P-17020; Pump By-Pass Jet **4 No. 56** P-21076; Pump capacity **11** to **15** c.c. per 10 fast strokes, and **15** to **19** cc. per 10 slow strokes (Middle adjustment) **(Tool T-24972)**; Pump adjustment nut to be **Flush** with top of stem. Pump action takes place during acceleration period only.

IDLE SYSTEM—Idle Discharge holes **No. 56-58**; with throttle valve fully closed and **No. 58** drill in idle hole, edge of valve is located **.018" + — .004"** from **No. 58** drill; Idle Air Bleed **No. 50** P-15477; Idle Tube **No. 70** P-19424. **Adjustment:** Adjust to smooth running, OUT to make richer and IN to make leaner; throttle at 7 to 8 M. P. H.

VACUUM SPARK CONTROL—With throttle fully closed and **No. 50** drill in spark hole, edge of valve is located **Flush** with **No. 50** drill.

FLANGE GASKET—P-4752.

SPECIAL TOOLS REQUIRED—Use Dodge complete Tool Kit **SER. 375**; T-24733 Float Adjuster and Power Piston Wrench; T-24967 Main Discharge Jet Remover; T-23844 Main Metering Jet Wrench; T-24970 By-Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burrette Gauge; T-24968 Handle; T-19099 Main Jet Plug Screw Driver.

MOTOR TUNE-UP DATA

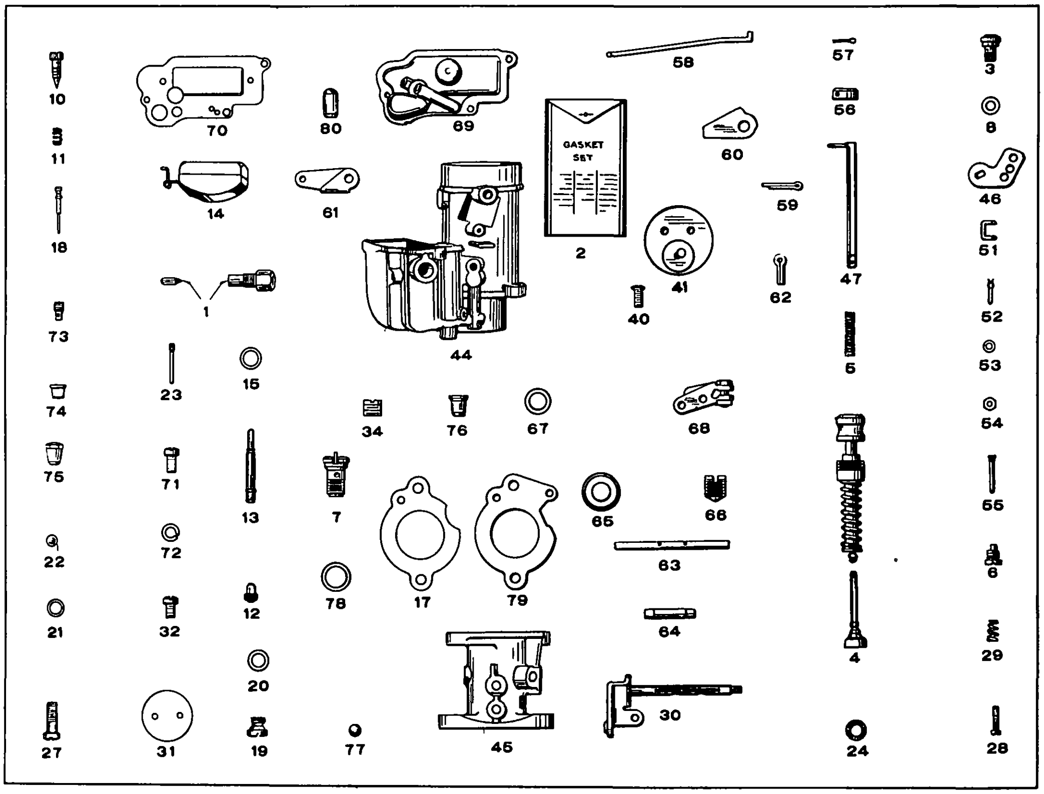
SPARK PLUG—.025".
Clean and adjust at regular intervals.

DISTRIBUTOR—.020".
Breaker gap set .020".
Replace if necessary.

VALVES—Intake: .006".
Exhaust: .008". Engine hot.

IGNITION TIMING—Breaker contacts to open for No. 1 cyl. 4° A. T. D. C. when corresponding mark on impulse neutralizer is in line with pointer.

SERVICE RECOMMENDATION — Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No.	Part No.	Part Name	
	1	P-20774	Float Needle Valve & Seat— 086"	(NOT VAR.)
	2	J-4608-G	Complete Gasket Set	
	3	P-21076	Pump By-Pass Jet 4 No 56	(NOT VAR.)
	4	P-19167	Pump Piston and Stem **(Includes P-16960 Spring)**	
	5	P-20666	Spring—Pump Duration	
	6	P-18144	Check Valve—Pump Inlet	
	7	P-23676	Power—By-Pass Jet No 55	(NOT VAR.)
	8	P-6855	Gasket—Pump By-Pass Jet	
	9	P-21074	Vacuum Power Piston	
	10	P-17402	Idle Needle Valve	
	11	P-15481	Spring—Idle Needle Valve	
	12	P-17004	Metering Jet—**.058"**	(VAR.)
	13	P-23638	Main Disch Jet—No 28-36	(NOT VAR.)
	14	P-21663	Float with Lever	
	15	P-10666	Gasket—Float Needle Valve Seat	
	17	P-21654	Gasket—Main Body	
	18	P-19424	Idle Tube No 70	(NOT VAR.)
	19	P-18130	Plug Main Disch Jet	
	20	P-60308	Gasket Main Disch Jet Plug	
	21	P-8838	Lockwasher—Main Body Attach Screw	
	22	P-18772	Lead Ball 3/16"	
	23	P-18125	Screw—Fulcrum—Float Lever	
	24	P-16960	Spring—Pump Piston Leather Expansion	
	27	P-19339	Screw—Main Body Attach	
	28	P-15456	Screw—Throttle Stop	
	29	P-15831	Spring—Throttle Stop Screw	
	30	P-21171	Throttle Lever and Stem	
	31	P-6454	Throttle Valve **(20°)**	(VAR.)
	32	P-16717	Screw—Throttle Valve Attach	
	34	P-6184	Plug—Check Valve	
	40	P-4522	Screw—Choke Valve Attach	
	41	P-21662	Choke Valve	
	44	P-23635	Main Body **1-5/32"** Venturi **No. 70** High Speed Bleeder	(VAR.)
	45	P-23624	Assy Throttle Body **No. 56-58** Idle Disch Holes **No. 50** Spark Hole	(VAR.)
		P-23620	Stop Pin—Fast Idle Cam	
	46	P-20628	Pump Lever	
	47	P 19165	Pump Rod	
	51	P-20203	Pump Link	
	52	P-19374	Cotter Pin—Pump Link	
	53	P-1791	Lockwasher—Pump Lever Attach Nut	
	54	P-2290	Nut—Pump Lever Attach	
	55	P-17020	Nozzle—Pump Disch **No. 70**	(VAR)
	56	P-18135	Nut—Pump Rod	
	57	P-4	Cotter Pin—Pump Rod Nut	
	58	P 23623	Rod—Fast Idle	
	59	112-S-22	Cotter Pin—Fast Idle Rod	
	60	P 23622	Cam—Fast Idle	

NOTE—For parts marked (VAR.) size must be specified when ordering.

Bin Location	Key No.	Part No.	Part Name	
	61	P-23621	Lever—Fast Idle	
	62	P-7170	Cotter Pin—Fast Idle Lever	
	63	P-20655	Stem—Choke	
	64	P-3881	Pin—Choke Stem	
	65	P-17081	Collar—Choke Stem	
	66	P-16161	Screw—Choke Stem Collar Set	
	67	P-4735	Washer—Choke Stem	
	68	P-22722	Assy —Choke Lever	
		P-22726	Choke Lever	
		P-18300	Choke Lever Clamp Screw	
		P-18299	Choke Lever Clamp Screw Nut	
	69	P-23640	Float Chamber Cover	
		P-17828	Float Vent Cap	
		P-9802	Float Vent Cap Screw	
	70	P-21068	Gasket—Float Cover	
	71	P-2266	Screw—Float Cover Attach	
	72	P-12167	Lockwasher—Float Cover Attach Screw	
	73	P-15477	Idle Air Bleeder—**No. 50**	(VAR.)
	74	P-15459	Plug—Idle Channel 1/4"	
	75	P-21053	Plug—Pump Disch Channel	
	76	P-15458	Plug—Idle Hole—No 10	
	77	P-19983	Lead Ball 1/8"	
	78	P-19448	Gasket—Power By-Pass Jet	
	79	P-21655	Insulator—Main Body	
	80	P-22764	High Speed Bleeder—**No. 70**	(VAR.)

PARTS EXCEPTIONS FOR MODEL D-8 EXPORT

CODE NO 3-37 SYMBOL NO. 686515

Bin Location	Key No.	Part No.	Part Name	
	44	P-23683	Assy—Main Body **1-5/32"** Venturi **No. 70** High Speed Bleeder	(VAR.)
	63	P-21716	Assembly—Choke Stem and Stop	
	69	P-23685	Assembly—Float Chamber Cover	
		P-17828	Float Vent Cap	
		P-9802	Float Vent Cap Screw	
None Shown		P-17053	Choke Lever with Wire Conn and Screw	
		P-12867	Wire Connector Screw	
None Shown		P-17058	Bushing—Choke Lever Fulcrum Screw	
None Shown		P-17059	Screw—Choke Lever Fulcrum	
None Shown		P-17067	Assembly—Choke Tube Holder	
		P-17051	Tube Holder	
		P-11561	Tube Holder Clamp	
		P-12868	Tube Holder Clamp Screw	
		P-8806	Tube Holder Clamp Screw Nut	
None Shown		P-17068	Spring—Choke Valve Return	
None Shown		P-17093	Screw—Choke Tube Holder Attach	
None Shown		P-17132	Spring—Choke Lever Return	
None Shown		P-17449	Washer—Choke Stem	
None Shown		P 21719	Block—Choke Stem	

BENDIX PRODUCTS DIVISION
SOUTH BEND **OF BENDIX AVIATION CORPORATION** **INDIANA**

STROMBERG "EXV-2" CARBURETOR

STROMBERG NO. A-18442 (CODE NO. 3-34A) DODGE SYMBOL 671887

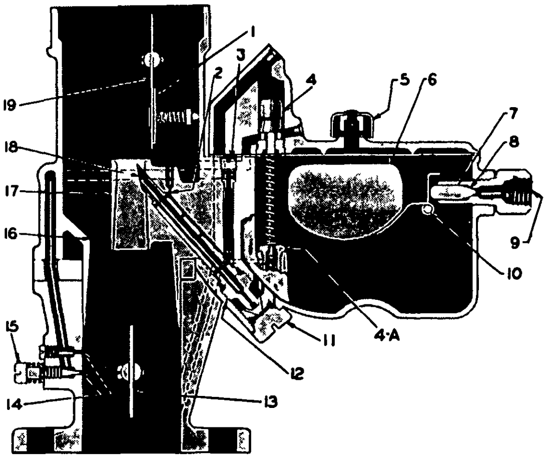
SIZE: 1¼" D. D. S.A.E. 2-11/16" FLANGE CENTERS. **REPLACE WITH BXOV-2 EQPT. A-19042**

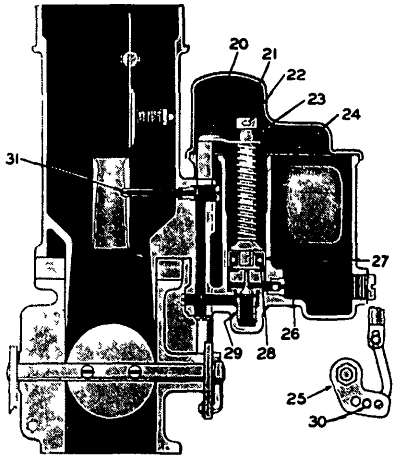
1937 DODGE

MODELS
"D-5", "D-6", "D-7",
EXPORT
3⅛" and 3¼"x4⅜"—6 cyl.

PARTS ILLUSTRATED

1. Poppet Valve
2. High Speed Bleeder
3. Idle Tube
4. Vacuum Power Piston
4a. Power By-Pass Jet
5. Float Chamber Vent
6. Float
7. Float Needle Valve
8. Float Needle Valve Seat
9. Gasoline Inlet
10. Float Fulcrum Pin
11. Main Discharge Jet Plug
12. Main Metering Jet
13. Throttle Valve
14. Idle Discharge Holes
15. Idle Needle Valve
16. Primary Venturi
17. Auxiliary Venturi
18. Main Discharge Jet
19. Choke Valve
20. Pump Rod
21. Pump Adjustment Nut
22. Cotter Pin
23. Piston Connecting Rod
24. Pump Duration Spring
25. Pump Lever
26. Pump Inlet Check Valve
27. Pump Piston
28. Pump Piston Expansion Spring
29. Accel. Pump By-Pass Jet
30. Pump Lever Link
31. Pump Discharge Nozzle





Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **5/8"** below top surface of float chamber (without gasket) at 3 lbs. pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level).

MAIN METERING SYSTEM—Venturi **1-5/32"**; Main Discharge Jet **No. 28-36** P-18226 **(Tool T-24967)**; High Speed Bleeder **No. 70** (in body); Main Metering Jet **.057"** P-17004 **(Tool T-23844)**; **(Tool 19099)** used to remove main jet plug; Main Metering system controls the flow of fuel up to approximately 65 to 70 M. P. H.

POWER SYSTEM—Power By-Pass Jet **No. 54** P-21197; Power jet to come into operation at **4"** to **6"** of manifold vacuum, which is approximately 65 to 70 M. P. H. **(Tool T-24733)** used to remove P-21074 vacuum power piston.

ACCELERATION — Pump Discharge Nozzle **No. 70** P-17020; Pump By-Pass Jet **4 No. 56** P-21076; Pump capacity **11** to **15** c.c. per 10 fast strokes, and **15** to **19** c.c. per 10 slow strokes (Middle adjustment) **(Tool T-24972)**; Pump adjustment nut to be **Flush** with top of pump piston stem. Pump action takes place during acceleration period only.

IDLE SYSTEM—Idle Discharge holes **No. 56-58**; with throttle valve fully closed and **No. 58** drill in idle hole, edge of valve is located **.018" + — .004"** from **No. 58** drill; Idle Air Bleed **No. 50** P-15477; Idle Tube **No. 70** P-17007. **Adjustment:** Adjust to smooth running, OUT to make richer and IN to make leaner; throttle at 6 M. P. H.

VACUUM SPARK CONTROL—With throttle fully closed and **No. 50** drill in spark hole, edge of valve is located **Flush** with **No. 50** drill.

FLANGE GASKET—P-4752.

SPECIAL TOOLS REQUIRED — Use Dodge complete Tool Kit **SER. 375**; T-24733 Float Adjuster and Power Piston Wrench; T-24967 Main Discharge Jet Remover; T-23844 Main Metering Jet Wrench; T-24970 By-Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burrette Gauge; T-24968 Handle; T-19099 Main Jet Plug Screw Driver.

MOTOR TUNE-UP DATA

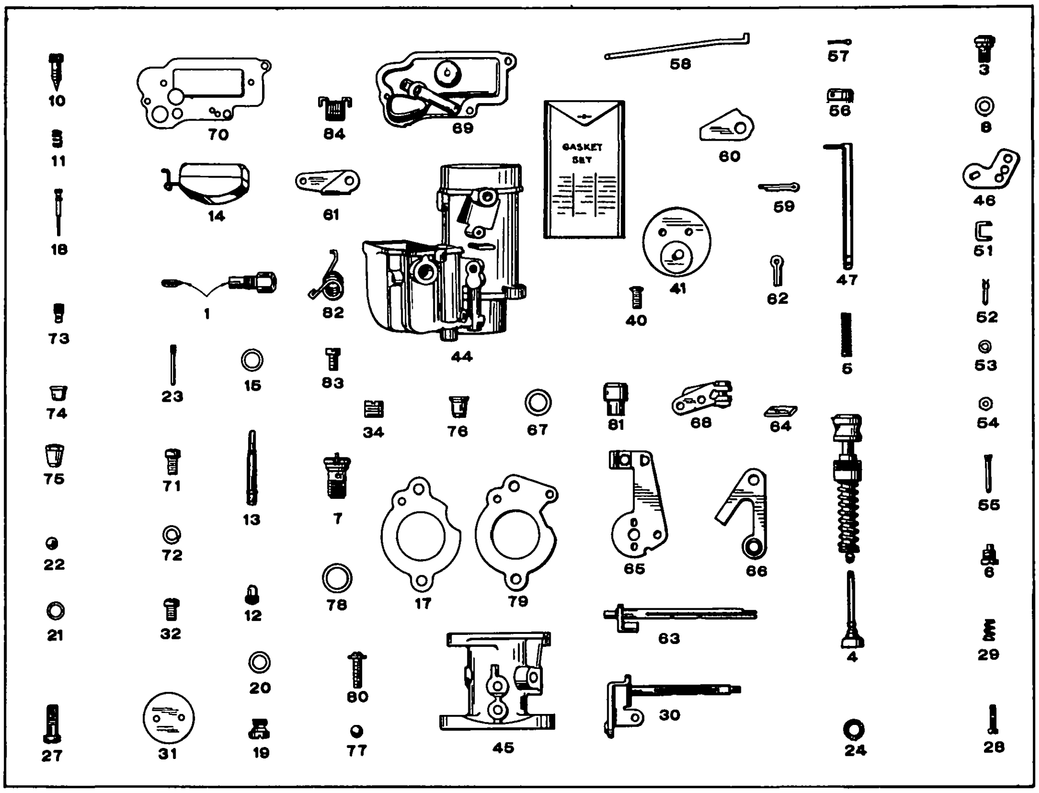
SPARK PLUG—.025".
Clean and adjust at regular intervals.

DISTRIBUTOR—.020".
Breaker gap set .020".
Replace if necessary.

VALVES—Intake: .006".
Exhaust: .008". **Engine hot.**

IGNITION TIMING—Breaker contacts to open 4° A. T. D. C. when corresponding mark on impulse neutralizer is in line with pointer.

SERVICE RECOMMENDATION — Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key N .	Part No.	Part Name	
	1	P-20774	Float Needle Valve & Seat— 086 '	(NOT VAR)
	2	J-4608-G	Complete Gasket Set	
	3	P 21076	Pump By-Pass Jet No 56	(NOT VAR.)
	4	P 19167	Pump Piston & Link	(Includes P-16960)
	5	P 20666	Spring—Pump Duration	
	6	P 18144	Check Valve—Pump Inlet	
	7	P-21197	Power By Pass Jet No 54	(NOT VAR.)
	8	P-6855	Gasket—Pump By-Pass Jet	
	9	P 21074	Vacuum Power Piston	
	10	P 17402	Idle Needle Valve	
	11	P 15481	Spring—Idle Needle Valve	
	12	P 17004	Metering Jet—.057"	(VAR.)
	13	P-18226	Main Discharge Jet—No 28-36	(NOT VAR.)
	14	P 21663	Float with Lever	
	15	P 10668	Gasket—Float Needle Valve Seat	
	17	P 21654	Gasket—Main Body	
	18	P-17007	Idle Tube—No 70	(NOT VAR.)
	19	P 18130	Plug—Main Disch Jet	
	20	P 60308	Gasket—Main Disch Jet Plug	
	21	P 8838	Lockwasher—Main Body Attach Screw	
	22	P-18772	Lead Ball 3/16	
	23	P 18125	Screw—Fulcrum—Float Lever	
	24	P-16960	Spring—Pump Piston Leather Expansion	
	27	P-19339	Screw—Main Body Attach	
	28	P-15456	Screw—Throttle Stop	
	29	P 15831	Spring—Throttle Stop Screw	
	30	P 21171	Throttle Lever & Stem	
	31	P 6454	Throttle Valve (20°)	(VAR)
	32	P 16717	Screw—Throttle Valve Attach	
	34	P-6184	Plug—Check Valve	
	40	P-4522	Screw—Choke Valve Attach	
	41	P 21662	Choke Valve	
	44	P 21718 T	Main Body—1 5/32" Venturi **No. 70** High Speed Bleeder	(VAR)
	45	P-23624	Throttle Body **No. 56 58** Idle Holes **No. 50** Spark Hole	(VAR)
		P 23620	Fast Idle Lever Fulcrum Pin	
	46	P-20628	Pump Lever	
	47	P 19165	Pump Rod	
	51	P 20203	Pump Link	
	52	P-19374	Cotter Pin—Pump Link	
	53	P 1791	Lockwasher—Pump L ver Nut	
	54	P 2290	Nut—Pump Lever	
	55	P 17020	Nozzle—Pump Disch **N 70**	(VAR)
	56	P-18135	Nut—Pump Rod	

NOTE—For parts marked (VAR.) size must be specified when ordering.

Bin Location	Key No.	Part No	Part Name	
	57	P-4	Cotter Pin –Pump Rod Nut	
	58	P 23623	Rod—Fast Idle	
	59	112-S-22	Cotter Pin—Fast Idle Rod	
	61	P 23621	Lever—Fast Idle	
	60	P 23622	Cam—Fast Idle	
	62	P 7170	Cotter Pin—Fast Idle Lever	
	63	P 21716	Choke Stem & Lever	
	64	P 21719	Block—Choke Stem	
	65	P-17067	Assy Tube Holder	
		P-17051	Tube Holder	
		P 11561	Tube Holder Clamp	
		P 12868	Tube Holder Clamp Screw	
		P 8806	Tube Holder Clamp Screw Nut	
	66	P 17053	Choke Lever with Wire Conn & Screw	
		P 12867	Wire Connector Screw	
	67	P 17449	Washer—Choke Stem	
	68	P 22722	Assy —Choke Lever (Fast Idle)	
		P 22726	Choke Lever	
		P 18300	Choke Lever Clamp Screw	
		P 18299	Choke Lever Clamp Screw Nut	
	69	P 22818	Float Cover	
		P 17828	Float Chamber Vent Cap	
		P 9802	Float Chamber Vent Cap Screw	
	70	P 21068	Gasket—Float Cover	
	71	P 2266	Screw—Float Cover Attach	
	72	P 12167	Lockwasher—Float Cover Attach Screw	
	73	P-15477	Idle Air Bleeder **No. 50**	(VAR.)
	74	P 15459	Plug—Idle Channel ¼"	
	75	P 21053	Plug—Pump Disch Channel	
	76	P 15458	Plug—Idle Holes No 10	
	77	P 19983	Lead Ball ⅛"	
	78	P-19448	Gasket—Power By-Pass Jet	
	79	P 21655	Insulator—Main Body	
	80	P-17059	Screw—Choke Lever Bushing Fulcrum	
	81	P 17058	Bushing—Choke Lever	
	82	P 17068	Spring—Choke Valve Return	
	83	P 17093	Screws—Choke Tube Holder Attach	
	84	P-17132	Spring—Choke Lever Return	

NOTE When servicing or ordering parts for carburetors with Code No "3-34', please note these changes

Use P-21656 Throttle Body in place of P-23624
P 19370 Fast Idl Lever Fulcrum Pin
Use P 22724 Fast Idle Rod in place of P 23623
Use P 22723 Fast Idle Lever in place f P-23622 & P 28621

With these changes it is necessary to us P 12400 Washer and P 21388 Cotter Pin in the Assembly of P 22723 Lever

BENDIX PRODUCTS DIVISION
SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

Printed in U S A

STROMBERG "EXV-2" CARBURETOR

STROMBERG NO A 18432 (CODE NO 3 33A) DODGE SYMBOL 671878

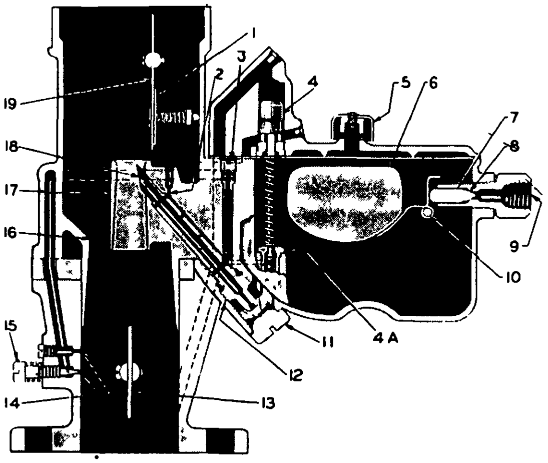
SIZE: 1¼" S A E 2 11/16" FLANGE CENTERS

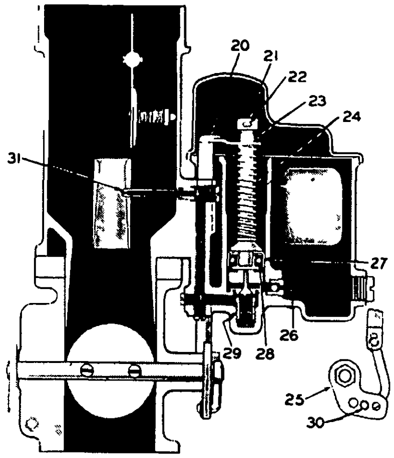
REPLACE WITH BXOV 2 EQPT A 19032

1937
DODGE
MODEL
"D-5"
3⅛" - 3¼"x4⅜"—6 cyl.

PARTS ILLUSTRATED

1	Poppet Valve
2	High Speed Bleeder
3	Idle Tube
4	Vacuum Power Piston
4a	Power By Pass Jet
5	Float Chamber Vent
6	Float
7	Float Needle Valve
8	Float Needle Valve Seat
9	Gasoline Inlet
10	Float Fulcrum Pin
11	Main Discharge Jet Plug
12	Main Metering Jet
13	Throttle Valve
14	Idle Discharge Holes
15	Idle Needle Valve
16	Primary Venturi
17	Auxiliary Venturi
18	Main Discharge Jet
19	Choke Valve
20	Pump Rod
21	Pump Adjustment Nut
22	Cotter Pin
23	Piston Connecting Rod
24	Pump Duration Spring
25	Pump Lever
26	Pump Inlet Check Valve
27	Pump Piston
28	Pump Piston Expansion Spring
29	Accel Pump By-Pass Jet
30	Pump Lever Link
31	Pump Discharge Nozzle





Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **5/8"** below top surface of float chamber (without gasket) at 3 lbs pressure (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level)

MAIN METERING SYSTEM—Venturi **1-5/32"**; Main Discharge Jet **No. 28-36** P-18226 **(Tool T-24967)**; High Speed Bleeder **No. 70** (in body), Main Metering Jet **.057"** P-17004 **(Tool T-23844)**; **(Tool 19099)** used to remove main jet plug Main Metering system controls the flow of fuel up to approximately 65 to 70 M P H

POWER SYSTEM—Power By Pass Jet **No. 64** P 21197 Power jet to come into operation at **4"** to **6"** of manifold vacuum which is approximately 65 to 70 M P H **(Tool T-24733)** used to remove P 21074 vacuum power piston

ACCELERATION — Pump Discharge Nozzle **No. 70** P 17020 Pump By Pass Jet **4 No. 56** P 21076 Pump capacity **11** to **15** c c per 10 fast strokes and **15** to **19** c c per 10 slow strokes (Middle adjustment) **(Tool T-24972)**; Pump adjustment nut to be **Flush** with top of pump piston stem Pump action takes place during acceleration period only

IDLE SYSTEM—Idle Discharge holes **No. 56-58**; with throttle valve fully closed and **No. 58** drill in idle hole, edge of valve is located **.018" + — .004"** from **No. 58** drill, Idle Air Bleed **No. 50** P-15477, Idle Tube **No. 70** P-17007 **Adjustment:** Adjust to smooth running OUT to make richer and IN to make leaner, throttle at 7 to 8 M P H

VACUUM SPARK CONTROL—With throttle fully closed and **No. 50** drill in spark hole, edge of valve is located **Flush** with **No. 50** drill

FLANGE GASKET—P-4752

SPECIAL TOOLS REQUIRED — Use Dodge complete Tool Kit **SER. 375**; T-24733 Float Adjuster and Power Piston Wrench T 24967 Main Discharge Jet Remover T-23844 Main Metering Jet Wrench, T-24970 By Pass Jet and Check Valve Tester, T-24972 Pump Capacity Burrette Gauge, T-24968 Handle, T-19099 Main Jet Plug Screw Driver

MOTOR TUNE-UP DATA

SPARK PLUG—.025".
Clean and adjust at regular intervals.

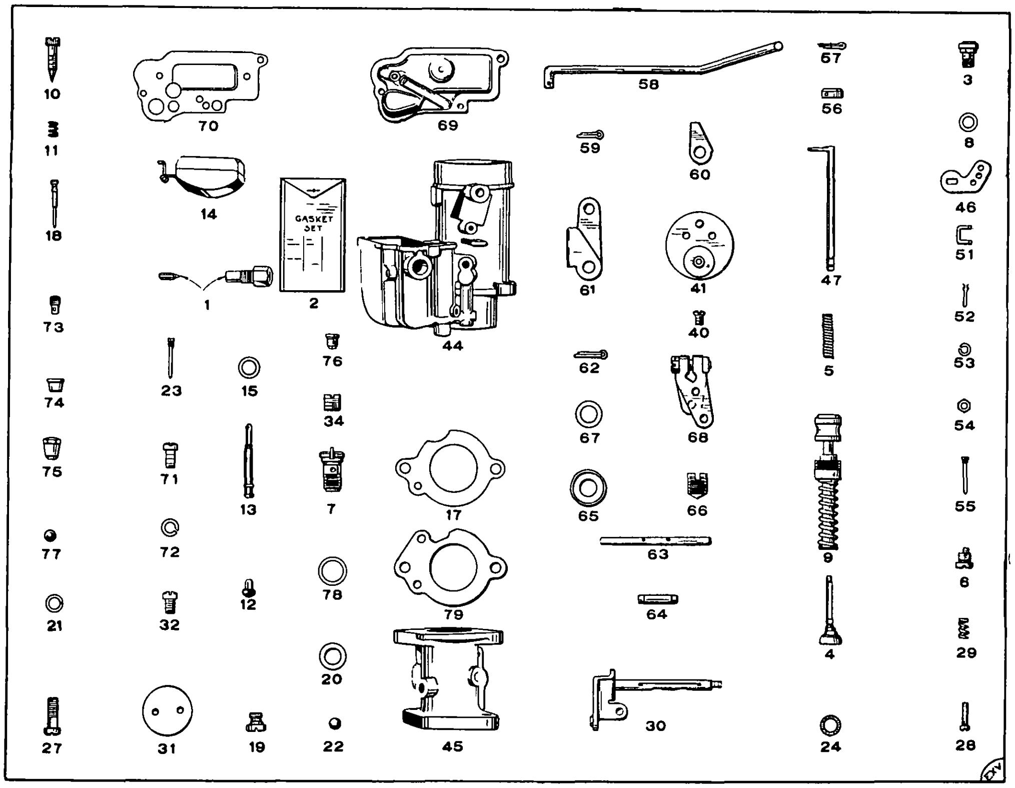
DISTRIBUTOR—.020".
Breaker gap set .020".
Replace if necessary.

VALVES—**Intake: .006".**
Exhaust: .008". Engine hot.

IGNITION TIMING—**Breaker contacts to open 4° A. T. D. C. when corresponding mark on impulse neutralizer is in line with pointer.**

SERVICE RECOMMENDATION — **Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.**

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No.	Part No.	Part Name	
	1	**P-20774**	Float Needle Valve & Seat— 086	**(NOT VAR.)**
	2	**J-4608-G**	Complete Gasket Set	
	3	**P-21076**	Pump By-Pass Jet 4 No 56	**(NOT VAR.)**
	4	**P-19167**	Pump Piston & Link **(Includes P-16960 Spring)**	
	5	**P-20666**	Spring—Pump Duration	
	6	**P-18144**	Check Valve—Pump Inlet	
	7	**P-21197**	Power By Pass Jet No 54	**(NOT VAR.)**
	8	**P-6855**	Gasket—Pump By Pass Jet	
	9	**P-21074**	Vacuum Power Piston	
	10	**P-17402**	Idle Needle Valve	
	11	**P-15481**	Spring--Idle Needle Valve	
	12	**P-17004**	Metering Jet **.057"**	**(VAR.)**
	13	**P-18226**	Main Disch Jet No 28 36	**(NOT VAR.)**
	14	**P-21663**	Float with Lever	
	15	**P-10666**	Gasket—Float Needle Valve Seat	
	17	**P-21654**	Gasket—Main Body	
	18	**P-17007**	Idle Tube No 70	**(NOT VAR.)**
	19	**P-18130**	Plug—Main Disch Jet	
	20	**P-60308**	Gasket—Main Disch Jet Plug	
	21	**P 8838**	Lockwasher—Main Body Attach Screw	
	22	**P-18772**	Lead Ball 3/16	
	23	**P-18125**	Screw—Fulcrum—Float Lever	
	24	**P-16960**	Spring—Pump Piston Leather Expansion	
	27	**P-19339**	Screw--Main Body Attach	
	28	**P-15456**	Screw—Throttle Stop	
	29	**P-15831**	Spring—Throttle Stop Screw	
	30	**P-21171**	Throttle Lever and Stem	
	31	**P-6454**	Throttle Valve (20°)	**(VAR.)**
	32	**P-16717**	Screw—Throttle Valve Attach	
	34	**P-6184**	Plug—Check Valve	
	40	**P-4522**	Screw--Choke Valve Attach	
	41	**P-21662**	Choke Valve	
	44	**P 21653 T**	Main Body—**1-5/32"** Venturi **No. 70** High Speed Bleeder	**(VAR.)**
	45	**P 23624**	Assy —Throttle Body—**No. 56-58** Idle Disch Hole **No. 50** Spark Hole	**(VAR.)**
		P-23620	Fast Idle Lever Fulcrum Pin	
	46	**P-20628**	Pump Lever	
	47	**P-19165**	Pump Rod	
	51	**P-20203**	Pump Link	
	52	**P-19374**	Cotter Pin—Pump Link	

NOTE—For parts marked (VAR.) size must be specified when ordering.

Bin Location	Key No.	Part No.	Part Name	
	53	**P-1791**	Lockwasher—Pump Lever Attach Nut	
	54	**P-2290**	Nut—Pump Lever Attach	
	55	**P-17020**	Nozzle—Pump Disch **No. 70**	**(VAR.)**
	56	**P 18135**	Nut—Pump Rod	
	57	**P-4**	Cotter Pin—Pump Rod Nut	
	58	**P 23623**	Rod—Fast Idle	
	59	**112-S-22**	Cotter Pin—Fast Idle Rod	
	60	**P-23622**	Cam—Fast Idle	
	61	**P 23621**	Lever—Fast Idle	
	62	**P 7170**	Cotter Pin—Fast Idle Lever	
	63	**P-20655**	Choke Stem	
	64	**P 3881**	Pin—Choke Stem End	
	65	**P 17081**	Collar—Choke Stem	
	66	**P-16161**	Screw—Choke Stem Collar Set	
	67	**P 4735**	Washer—Choke Stem	
	68	**P 22722**	Choke Lever	
		P-22726	Choke Lever	
		P 18300	Choke Lever Clamp Screw	
		P-18299	Choke Lever Clamp Screw Nut	
	69	**P-22820**	Float Cover	
		P 17828	Vent Cap	
		P-9802	Vent Cap Attach Rivet	
	70	**P-21068**	Gasket—Float Cover	
	71	**P-2266**	Screw—Float Cover Attach	
	72	**P 12167**	Lockwasher—Float Cover Attach Screw	
	73	**P 15477**	Idle Air Bleeder—**No. 50**	**(VAR.)**
	74	**P-15459**	Plug—Idle Channel—¼"	
	75	**P-21053**	Plug—Pump Disch Channel	
	76	**P-15458**	Plug—Idle Disch Hole—No 10	
	77	**P-19983**	Lead Balls ⅛"	
	78	**P-19448**	Gasket—Power By Pass Jet	
	79	**P-21655**	Insulator—Main Body	

Please note when servicing or ordering parts for carburetors with Code No. 3-33, these following changes:

P-21656	Throttle Body in place of	**P-23624**
P-22724	Fast Idle Rod in place of	**P-23623**
P-22723	Fast Idle Lever in place of	**P-23622** and **P-23621**

In addition **P-21338** Cotter Pin and **P-12400** Washer are used in this Assembly with **P-22723** Lever

BENDIX PRODUCTS DIVISION

SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

Printed in U S A

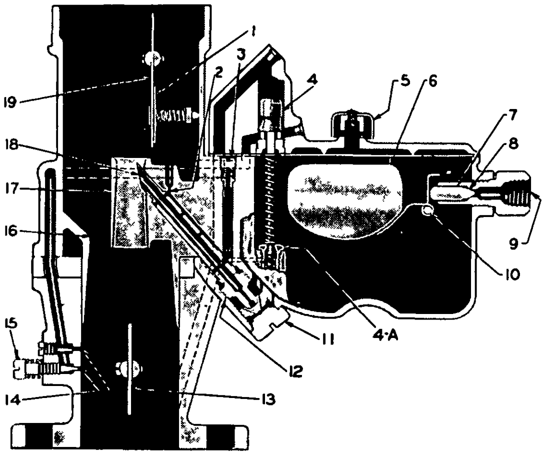
STROMBERG "EXV-2" CARBURETOR

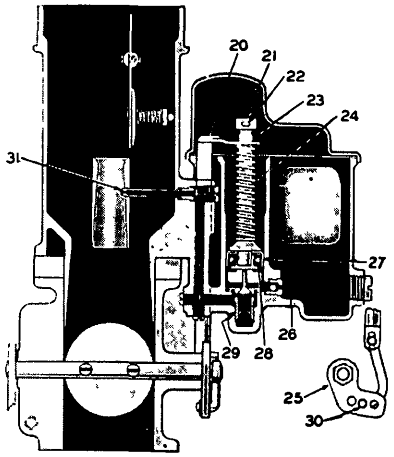
STROMBERG NO. A-18252 (CODE NO. 3-28C) DODGE SYMBOL 658279

SIZE: 1¼" D. D. S. A. E. 2-11/16" FLANGE CENTERS **REPLACE WITH BXOV-2 EQPT. A-19042**

1936
DODGE
MODELS
"D-3 & D-4"
EXPORT
3⅛"x4⅜"—6 cyl.

PARTS ILLUSTRATED





1. Poppet Valve
2. High Speed Bleeder
3. Idle Tube
4. Vacuum Power Piston
4a. Power By-Pass Jet
5. Float Chamber Vent
6. Float
7. Float Needle Valve
8. Float Needle Valve Seat
9. Gasoline Inlet
10. Float Fulcrum Pin
11. Main Discharge Jet Plug
12 Main Metering Jet
13. Throttle Valve
14. Idle Discharge Holes
15. Idle Needle Valve
16. Primary Venturi
17. Auxiliary Venturi
18. Main Discharge Jet
19. Choke Valve
20. Pump Rod
21. Pump Adjustment Nut
22. Cotter Pin
23. Piston Connecting Rod
24 Pump Duration Spring
25. Pump Lever
26. Pump Inlet Check Valve
27. Pump Piston
28. Pump Piston Expansion Spring
29. Accel. Pump By-Pass Jet
30. Pump Lever Link
31. Pump Discharge Nozzle

Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **5/8"** below top surface of float chamber (without gasket) at 3 lbs. pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level).

MAIN METERING SYSTEM—Venturi **1-5/32";** Main Discharge Jet **No. 28-36** P-18226 **(Tool T-24967);** High Speed Bleeder **No. 70** (in body); Main Metering Jet **.058"** P-17004 **(Tool T-23844); (Tool T-19099)** used to remove main jet plug; Main Metering system controls the flow of fuel up to approximately 65 to 70 M. P. H.

POWER SYSTEM—Power By-Pass Jet **No. 54** P-21197; Power jet to come into operation at **4"** to **6"** of manifold vacuum, which is approximately 65 to 70 M. P. H. **(Tool T-24733)** used to remove P-21074 vacuum power piston.

ACCELERATION — Pump Discharge Nozzle **No. 70** P-17020; Pump By-Pass Jet **4 No. 56** P-21076; Pump capacity **11** to **15** c.c. per 10 fast strokes, **and 15 to 19** c.c. per 10 slow strokes (Middle adjustment); **(Tool T-24972)** Pump adjustment nut to be **Flush** with top of stem. Pump action takes place during acceleration period only.

IDLE SYSTEM—Idle Discharge holes **No. 56-58;** with throttle valve fully closed and **No. 58** drill in idle hole, edge of valve is located **.018" + — .004"** from **No. 58** drill; Idle Air Bleed **No. 53** P-15477; Idle Tube **No. 70** P-17007. **Adjustment:** Adjust to smooth running, OUT to make richer and IN to make leaner; throttle at 6 M. P. H.

VACUUM SPARK CONTROL—With throttle fully closed and **No. 50** drill in spark hole, edge of valve is located **Flush** with **No. 50** drill.

FLANGE GASKET—P-4752.

SPECIAL TOOLS REQUIRED — Use Dodge complete Tool Kit **SER. 375;** T-24733 Float Adjuster and Power Piston Wrench; T-24967 Main Discharge Jet Remover; T-23844 Main Metering Jet Wrench; T-24970 By-Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burrette Gauge; T-24968 Handle; T-19099 Main Jet Plug Screw Driver.

MOTOR TUNE-UP DATA

SPARK PLUG—.025".
Clean and adjust at regular intervals.

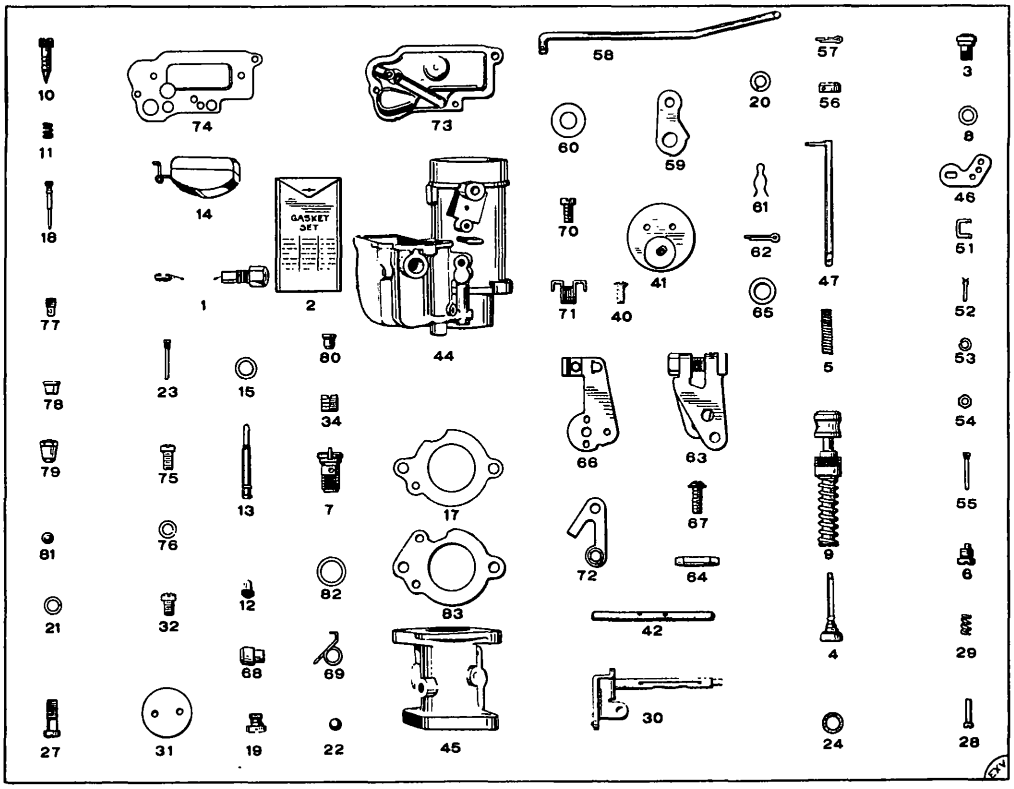
DISTRIBUTOR—.020".
Breaker gap set .020".
Replace if necessary.

VALVES—Intake: .006".
Exhaust: .008". Engine hot.

IGNITION TIMING—Breaker contacts to open 4° A. T. D. C. when corresponding mark on impulse neutralizer is in line with pointer.

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No.	Part No.	Part Name
	1	**P-20774**	Float Needle Valve & Seat—.086"....**(NOT VAR.)**
	2	**J-4608-G**	Complete Gasket Set
	3	**P-21076**	Pump By-Pass Jet 4 No. 56 **(NOT VAR.)**
	4	**P-19167**	Pump Piston and Link **(Includes P-16960)**
	5	**P-20666**	Spring—Pump Duration
	6	**P-18144**	Check Valve—Pump Inlet
	7	**P-21197**	Power By-Pass Jet No. 54 **(NOT VAR.)**
	8	**P-6855**	Gasket—Pump By-Pass Jet
	9	**P-21074**	Vacuum Power Piston
	10	**P-17402**	Idle Needle Valve
	11	**P-15481**	Spring—Idle Needle Valve
	12	**P-17004**	Metering Jet **.058"** **(VAR.)**
	13	**P-18226**	Main Discharge Jet No. 28-36 **(NOT VAR.)**
	14	**P-21663**	Float
	15	**P-10666**	Gasket—Float Needle Valve Seat
	17	**P-21654**	Gasket—Main Body
	18	**P-17007**	Idle Tube No. 70 **(NOT VAR.)**
	19	**P-18130**	Plug—Main Discharge Jet
	20	**P-60308**	Gasket—Main Discharge Jet Plug
	21	**P-8838**	Lockwasher—Main Body Screw
	22	**P-18772**	Lead Ball 3/16"
	23	**P-18125**	Screw—Fulcrum—Float Lever
	24	**P-16960**	Spring—Pump Piston Leather Expansion
	27	**P-19339**	Screw—Main Body
	28	**P-15456**	Screw—Throttle Stop
	29	**P-15831**	Spring—Throttle Stop Screw
	30	**P-21171**	Throttle Lever and Stem
	31	**P-6454**	Throttle Valve **(20°)** **(VAR.)**
	32	**P-16717**	Screw—Throttle Valve
	34	**P-6184**	Plug—Check Valve
	40	**P-4522**	Screw—Choke Valve
	41	**P-21662**	Choke Valve
	42	**P-21716**	Lever and Stem (Choke)
	44	**P-21718-T**	Main Body **1-5/32"** Venturi **No. 70** High Speed Bleeder **(VAR.)**
	45	**P-21656**	Throttle Body **No. 56-58** Idle Disch. Holes **No. 50** Spark Hole **(VAR.)**
		P-19370	Pin—Fast Idle Lever Fulcrum
	46	**P-20628**	Pump Lever
	47	**P-19165**	Pump Rod
	51	**P-20203**	Pump Link
	52	**P-19374**	Cotter Pin—Pump Link
	53	**P-1791**	Lockwasher—Pump Lever Nut
	54	**P-2290**	Nut—Pump Lever
	55	**P-17020**	Nozzle—Pump Discharge **No. 70** **(VAR.)**

NOTE—For parts marked (VAR.) size must be specified when ordering.

Bin Location	Key No.	Part No.	Part Name
	56	**P-18135**	Nut—Pump Rod
	57	**P-4**	Cotter Pin—Pump Rod Nut
	58	**P-22724**	Rod—Fast Idle
	59	**P-22723**	Lever—Fast Idle
	60	**P-12400**	Washer—Fast Idle Lever
	61	**P-21338**	Cotter Pin—Fast Idle Lever Washer
	62	**112-S-22**	Cotter Pin—Fast Idle Rod
	63	**P-22722**	Lever—Assy. Choke Fast Idle
		P-22726	Lever
		P-18300	Lever Clamp Screw
		P-18299	Lever Clamp Screw Nut
	64	**P-21719**	Block—Choke Stem
	65	**P-17449**	Washer—Choke Stem
	66	**P-17067**	Choke Tube Holder—Assy.
		P-17051	Holder
		P-11561	Clamp
		P-12868	Clamp Screw
		P-8806	Clamp Screw Nut
	67	**P-17059**	Screw—Choke Lever Fulcrum
	68	**P-17058**	Bushing—Choke Lever Fulcrum
	69	**P-17068**	Spring—Choke Valve Return
	70	**P-17093**	Screw—Tube Holder Attach.
	71	**P-17132**	Spring—Choke Lever Return
	72	**P-17053**	Choke Lever with Wire Conn. and Screw
		P-12867	Wire Conn. Screw
	73	**P-21067**	Float Cover
		P-17828	Vent Cap
		P-9802	Vent Cap Attach. Rivet
	74	**P-21068**	Gasket—Float Cover
	75	**P-2266**	Screw—Float Cover
	76	**P-12167**	Lockwasher—Float Cover
	77	**P-15477**	Bleeder—Idle Air **No.53** **(VAR.)**
	78	**P-15459**	Plug—Idle Channel ¼"
	79	**P-21053**	Plug—Pump Discharge Channel
	80	**P-15458**	Plug—Idle Discharge Channel No. 10
	81	**P-19983**	Lead Ball—⅛"
	82	**P-19448**	Gasket—Power By-Pass Jet
	83	**P-21655**	Insulator Spacer

When Servicing Carburetor Please Note:

New Style—with P-22724—Fast Idle Rod (.155").
Use P-22726—Choke Lever—Fast Idle and
P-22723—Fast Idle Lever.
Old Style—With P-19367—Fast Idle Rod (.125").
Use P-20654—Choke Lever—Fast Idle and
P-21160—Fast Idle Lever.
These parts are not interchangeable due to differences in sizes.

BENDIX PRODUCTS DIVISION

SOUTH BEND **OF BENDIX AVIATION CORPORATION** **INDIANA**

STROMBERG "EXV-2" CARBURETOR

1936
DODGE
MODEL
"TAXI"
⅛"x4⅜"—6 cyl.

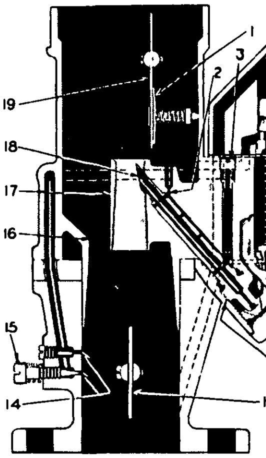
STROMBERG NO. A-18372 (CODE NO. 3-31A) DODGE SYMBOL 667622

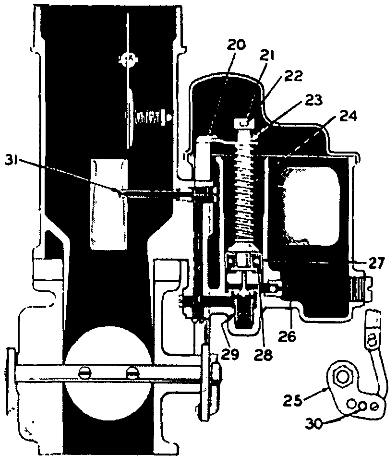
SIZE: 1¼" S. A. E. 2-11/16" FLANGE CENTERS

REPLACE WITH BXOV-2 EQPT. A-19032

PARTS ILLUSTRATED

1. Poppet Valve
2. High Speed Bleeder
3. Idle Tube
4. Vacuum Power Piston
4a. Power By-Pass Jet
5. Float Chamber Vent
6. Float
7. Float Needle Valve
8. Float Needle Valve Seat
9. Gasoline Inlet
10. Float Fulcrum Pin
11. Main Discharge Jet Plug
12. Main Metering Jet
13. Throttle Valve
14. Idle Discharge Holes
15. Idle Needle Valve
16. Primary Venturi
17. Auxiliary Venturi
18. Main Discharge Jet
19. Choke Valve
20. Pump Rod
21. Pump Adjustment Nut
22. Cotter Pin
23. Piston Connecting Rod
24. Pump Duration Spring
25. Pump Lever
26. Pump Inlet Check Valve
27. Pump Piston
28. Pump Piston Expansion Spring
29. Accel. Pump By-Pass Jet
30. Pump Lever Link
31. Pump Discharge Nozzle





Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **5/8"** below top surface of float chamber (without gasket) at 3 lbs. pressure, (use standard depth gauge for measuring and **Tool 24733** for changing position of float to obtain correct fuel level).

MAIN METERING SYSTEM—Venturi **1-5/32"**; Main Discharge Jet **No. 28-36** P-18226 **(Tool T-24967)**; High Speed Bleeder **No. 70** (in body); Main Metering Jet **.057"** P-17004 **(Tool T-23844)**; **(Tool T-19099)** used to remove main jet plug; Main Metering system controls the flow of fuel up to approximately 65 to 70 M. P. H.

POWER SYSTEM—Power By-Pass Jet **No. 54** P-21197; Power jet to come into operation at **4"** to **6"** of manifold vacuum, which is approximately 65 to 70 M. P. H. **(Tool T-24733)** used to remove P-21074 vacuum power piston. When carburetor is used without a governor, the vacuum passage in the throttle barrel should be open. For use with a governor the inside vacuum passage should be plugged and the flange plug removed, making certain that the flange passage connects with the passage in the governor with the proper flange gasket installed.

ACCELERATION — Pump Discharge Nozzles **No. 70** P-17020; Pump By-Pass Jet **4 No. 56** P-21076; Pump capacity **11** to **15** c.c. per 10 fast strokes, and **15** to **19** c.c. per 10 slow strokes (Middle adjustment) **(Tool T-24972)**; Pump adjustment nut to be **Flush** with top of stem; Pump action takes place during acceleration period only.

IDLE SYSTEM—Idle Discharge holes **No. 56-58**; with throttle valve fully closed and **No. 58** drill in idle hole, edge of valve is located **.018" + — .004"** from **No. 58** drill; Idle Air Bleed **No. 50** P-15477; Idle Tube **No. 70** P-17007. **Adjustment:** Adjust to smooth running, OUT to make richer and IN to make leaner; throttle at 7 to 8 M. P. H.

VACUUM SPARK CONTROL—With throttle fully closed and **No. 50** drill in spark hole, edge of valve is located **Flush** from **No. 50** drill.

FLANGE GASKET—P-4752.

SPECIAL TOOLS REQUIRED—Use Dodge complete Tool Kit **SER. 375**; T-24733 Float Adjuster Power Piston Wrench; T-24967 Main Discharge Jet Remover; T-23844 Main Metering Jet Wrench; T-24970 By-Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burrette Gauge; T-24968 Handle; T-19099 Main Jet Plug Screw Driver.

MOTOR TUNE-UP DATA

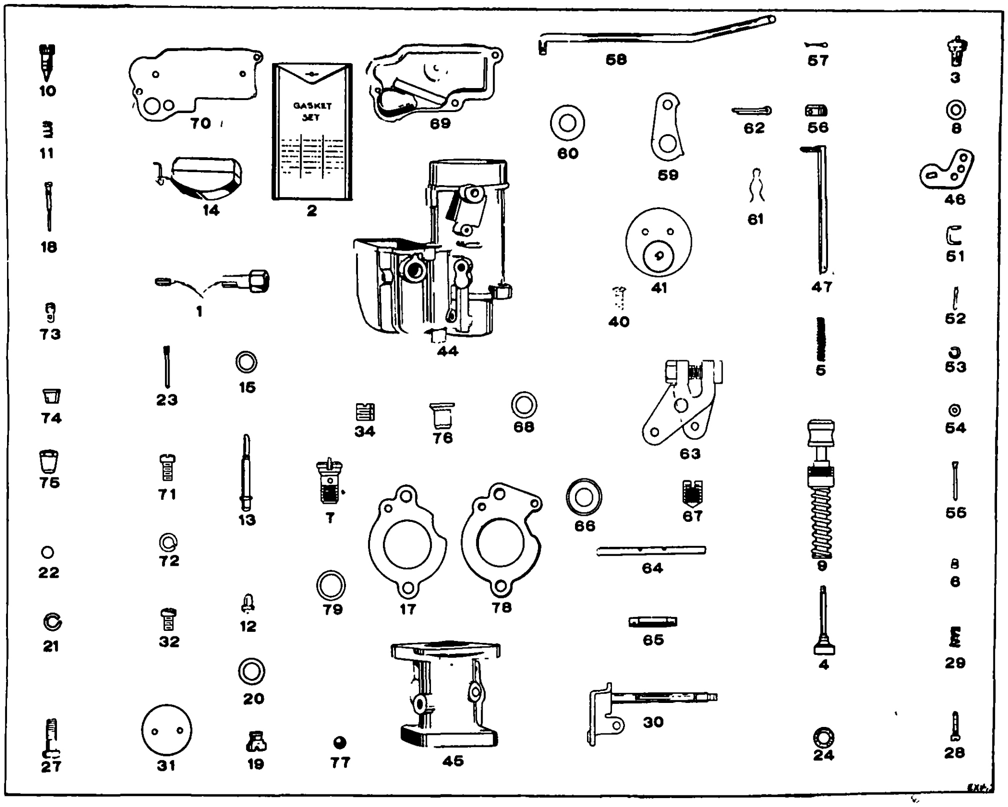
SPARK PLUG—.025".
Clean and adjust at regular intervals.

DISTRIBUTOR—.020".
Breaker gap set .020".
Replace if necessary.

VALVES—Intake: .006".
Exhaust: .008". **Engine hot.**

IGNITION TIMING—Breaker contacts to open 4° A. T. D. C. when corresponding mark on impulse neutralizer is in line with pointer.

SERVICE RECOMMENDATION — Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No.	Part No.	Part Name
	1	P-20774	Float Needle Valve & Seat—.086" **(NOT VAR.)**
	2	J-4608-G	Complete Gasket Set
	3	P-21076	Pump By-Pass No. 56 **(NOT VAR.)**
	4	P-19167	Pump Piston and Link **(Includes P-16960)**
	5	P-20666	Spring—Pump Duration
	6	P-18144	Check Valve—Pump Inlet
	7	P-21197	Power By-Pass Jet No. 54 **(NOT VAR.)**
	8	P-6855	Gasket—Pump By-Pass Jet
	9	P-21074	Vacuum Power Piston
	10	P-17402	Idle Needle Valve
	11	P-15481	Spring—Idle Needle Valve
	12	P-17004	Metering Jet **.057"** **(VAR.)**
	13	P-18226	Main Discharge Jet No. 28-36 **(NOT VAR.)**
	14	P-21663	Float with Lever
	15	P-10666	Gasket—Float Needle Valve Seat
	17	P-21654	Gasket—Main Body
	18	P-17007	Idle Tube No. 70 **(NOT VAR.)**
	19	P-18130	Plug—Main Discharge Jet
	20	P-60308	Gasket—Main Discharge Jet Plug
	21	P-8838	Lockwasher—Main Body Attach. Screw
	22	P-18772	Lead Ball 1/16"
	23	P-18125	Screw—Fulcrum—Float Lever
	24	P-16960	Spring—Pump Piston Leather Expansion
	27	P-19339	Screw—Main Body Attach.
	28	P-15456	Screw—Throttle Stop
	29	P-15831	Spring—Throttle Stop Screw
	30	P-21171	Throttle Lever and Stem
	31	P-6454	Throttle Valve **(20°)** **(VAR.)**
	32	P-16717	Screw—Throttle Valve Attach.
	34	P-6184	Plug—Check Valve
	40	P-4522	Screw—Choke Valve Attach.
	41	P-21662	Choke Valve
	44	P-21653-T	Assy.—Main Body **1-5/32"** Venturi **No. 70** H. S. Bleeder **(VAR.)**
	45	P-22377	Assy.—Throttle Body **No. 56-58** Idle Disch. Hole **No. 50** Spark Hole **(VAR.)**
		P-19370	Fast Idle Lever Fulcrum Pin
	46	P-20628	Pump Lever
	47	P-19165	Pump Rod
	51	P-20203	Pump Link
	52	P-19374	Cotter Pin—Link
	53	P-1791	Lockwasher—Pump Lever Attach. Nut
	54	P-2290	Nut—Pump Lever Attach.
	55	P-17020	Nozzle—Pump Discharge **No. 70** **(VAR.)**
	56	P-18135	Nut—Pump Rod
	57	P-4	Cotter Pin—Pump Rod Nut
	58	*P-22724	Rod—Fast Idle
	59	*P-22723	Lever—Fast Idle
	60	P-12400	Washer—Fast Idle Lever
	61	P-21338	Cotter Pin—Fast Idle Lever Washer
	62	112-S-22	Cotter Pin—Fast Idle Rod
	63	*P-22722	Assy.—Choke Lever
		P-22726	Choke Lever
		P-18300	Choke Lever Clamp Screw
		P-18299	Choke Lever Clamp Screw Nut
	64	P-20655	Choke Stem
	65	P-3881	Pin—Choke Stem Separator
	66	P-17081	Collar—Choke Stem
	67	P-16161	Screw—Choke Stem Collar Set
	68	P-4735	Washer—Choke Stem
	69	P-21067	Float Cover
		P-17828	Vent Cap
		P-9802	Vent Cap Attach. Rivet
	70	P-21068	Gasket—Float Cover
	71	P-2266	Screw—Float Cover Attach.
	72	P-12167	Lockwasher—Float Cover Attach. Screw
	73	P-15477	Idle Air Bleeder—**No. 50** **(VAR.)**
	74	P-15459	Plug—Idle Channel ¼"
	75	P-21053	Plug—Pump Discharge Channel
	76	P-15458	Plug—Idle Discharge Hole—No. 10
	77	P-19983	Lead Ball ⅛"
	78	P-21655	Insulator Main Body
	79	P-19448	Gasket—Power By-Pass Jet

NOTE—For parts marked (VAR.) size must be specified when ordering.

When Servicing Carburetor Please Note:

With (new style .155) **P-22724** Fast Idle Rod
Use **P-22722** Choke Lever
Use **P-22723** Fast Idle Lever

With (old style .126) **P-19367** Fast Idle Rod
Use **P-20653** Choke Lever
Use **P-21169** Fast Idle Lever

These parts are not interchangeable due to differences in sizes.

BENDIX PRODUCTS DIVISION
SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

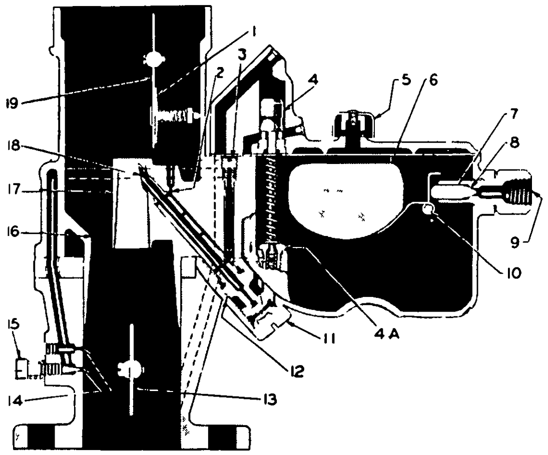
STROMBERG "EXV-2" CARBURETOR

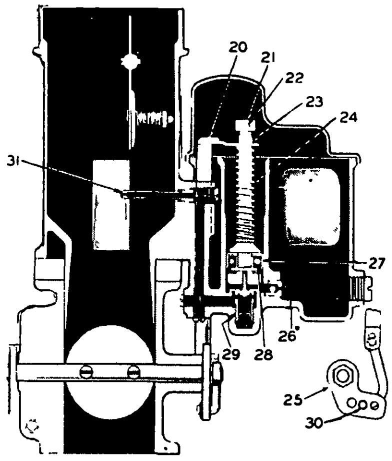
STROMBERG NO. A-18212 (CODE NO. 3-26C) DODGE SYMBOL 654757

SIZE: 1¼" D. D. S. A. E. 2 11/16" FLANGE CENTERS   REPLACE WITH BXOV-2 EQPT. A-19032

1936
DODGE
MODEL
"D-2"
3⅛"x4⅜"—6 cyl.

PARTS ILLUSTRATED





1 Poppet Valve
2 High Speed Bleeder
3 Idle Tube
4 Vacuum Power Piston
4a Power By Pass Jet
5 Float Chamber Vent
6 Float
7 Float Needle Valve
8 Float Needle Valve Seat
9 Gasoline Inlet
10 Float Fulcrum Pin
11 Main Discharge Jet Plug
12 Main Metering Jet
13 Throttle Valve
14 Idle Discharge Holes
15 Idle Needle Valve
16 Primary Venturi
17 Auxiliary Venturi
18 Main Discharge Jet
19 Choke Valve
20 Pump Rod
21 Pump Adjustment Nut
22 Cotter Pin
23 Piston Connecting Rod
24 Pump Duration Spring
25 Pump Lever
26 Pump Inlet Check Valve
27 Pump Piston
28 Pump Piston Expansion Spring
29 Accel Pump By-Pass Jet
30 Pump Lever Link
31 Pump Discharge Nozzle

Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **5/8"** below top surface of float chamber (without gasket) at 3 lbs pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level)

MAIN METERING SYSTEM—Venturi **1-5/32"**; Main Discharge Jet **No. 28-36** P 18226 **(Tool T-24967)**; High Speed Bleeder **No. 70** (in body); Main Metering Jet **.058"** P-17004 **(Tool T-23844)**; **(Tool T-19099)** used to remove main jet plug, Main Metering system controls the flow of fuel up to approximately 65 to 70 M P H

POWER SYSTEM—Power By-Pass Jet **No. 54** P-21197; Power jet to come into operation at **4"** to **6"** of manifold vacuum, which is approximately 65 to 70 M P H **(Tool T-24733)** used to remove P-21074 vacuum power piston

ACCELERATION — Pump Discharge Nozzle **No. 70** P-17020, Pump By-Pass Jet **4 No. 56** P-21076, Pump capacity **11** to **15** c c per 10 fast strokes, and **15** to **19** c c per 10 slow strokes (Middle adjustment), **(Tool T-24972)** Pump adjustment nut to be **Flush** with top of stem Pump action takes place during acceleration period only

IDLE SYSTEM—Idle Discharge holes **No. 56-58**; with throttle valve fully closed and **No. 58** drill in idle hole, edge of valve is located **.018"** + — **.004"** from **No. 58** drill, Idle Air Bleed **No. 53** P-15477; Idle Tube **No. 70** P-17007 **Adjustment:** Adjust to smooth running, OUT to make richer and IN to make leaner; throttle at 7 to 8 M P. H.

VACUUM SPARK CONTROL—With throttle fully closed and **No. 50** drill in spark hole, edge of valve is located **Flush** with **No. 50** drill

FLANGE GASKET—P-4752

SPECIAL TOOLS REQUIRED — Use Dodge complete Tool Kit **SER. 375**; T-24733 Float Adjuster and Power Piston Wrench, T-24967 Main Discharge Jet Remover, T-23844 Main Metering Jet Wrench; T-24970 By-Pass Jet and Check Valve Tester, T-24972 Pump Capacity Burrette Gauge, T-24968 Handle; T-19099 Main Jet Plug Screw Driver

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MOTOR TUNE-UP DATA

SPARK PLUG—.025".
Clean and adjust at regular intervals.

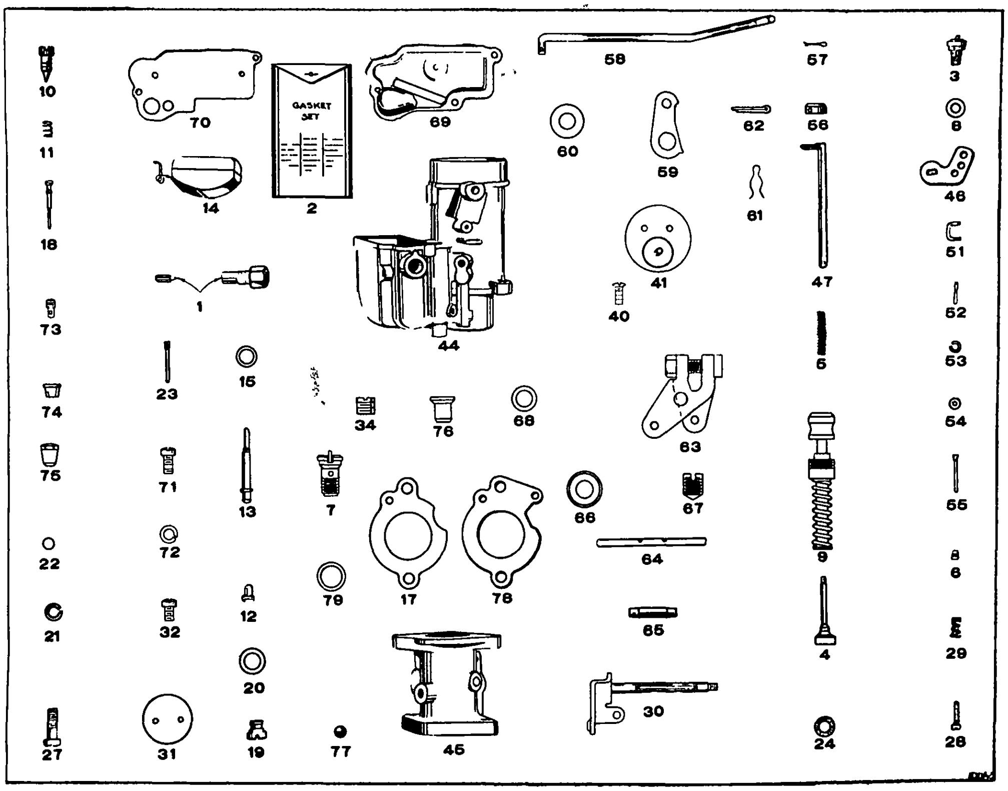
DISTRIBUTOR—.020".
Breaker gap set .020".
Replace if necessary.

VALVES—Intake: .006.
Exhaust: .008". Engine hot.

IGNITION TIMING—**Breaker contacts to open 4° A. T. D. C. when corresponding mark on impuls neutralizer is in line with pointer.**

SERVICE RECOMMENDATION — **Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.**

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No.	Part No.	Part Name	
	1	P-20774	Float Needle Valve & Seat – 086"	(NOT VAR.)
	2	J-4608-G	Complete Gasket Set	
	3	P-21076	Pump By Pass Jet 4 No 56	(NOT VAR.)
	4	P-19167	Pump Piston and Link	(Includes P-16960 Spring)
	5	P-20666	Spring—Pump Duration	
	6	P-18144	Check Valve—Pump Inlet	
	7	P-21197	Power By-Pass Jet No 54	(NOT VAR.)
	8	P-6855	Gasket—Pump By-Pass	
	9	P-21074	Vacuum Power Piston	
	10	P-17402	Idle Needle Valve	
	11	P-15481	Spring—Idle Needle Valve	
	12	P-17004	Metering Jet .058"	(VAR.)
	13	P-18226	Main Discharge Jet No 28-36	(NOT VAR.)
	14	P-21663	Float with Lever	
	15	P-10666	Gasket—Float Needle Valve Seat	
	17	P-21654	Gasket—Main Body	
	18	P-17007	Idle Tube No 70	(NOT VAR.)
	19	P-18130	Plug—Main Disch Jet	
	20	P-60308	Gasket—Main Disch Jet Plug	
	21	P-8838	Lockwasher—Main Body Attach Screw	
	22	P-18772	Lead Ball [illegible]"	
	23	P-18125	Screw—Fulcrum—Float Lever	
	24	P-16960	Spring—Pump Piston Leather Expansion	
	27	P-19339	Screw—Main Body Attach	
	28	P-15456	Screw—Throttle Stop	
	29	P-15831	Spring—Throttle Stop Screw	
	30	P-21171	Throttle Lever and Stem	
	31	P-6454	Throttle Valve (20°)	(VAR.)
	32	P-16717	Screw—Throttle Valve Attach	
	34	P-6184	Plug—Check Valve No 3/8-24	
	40	P-4522	Screw—Choke Valve Attach	
	41	P-21662	Choke Valve	
	44	P-21653-T	Main Body 1-5/32" Venturi No. 70 High Speed Bleeder	(VAR.)
	45	P-21656	Assy—Throttle Body No. 56 58 Idle Disch Holes No. 50 Spark Hole	(VAR.)
		P-19370	Fast Idle Lever Fulcrum Pin	
	46	P-20628	Pump Lever	
	47	P-19165	Pump Rod	
	51	P-20203	Pump Link	
	52	P-19374	Cotter Pin—Pump Link	

NOTE—For parts marked (VAR.) size must be specified when ordering.

Bin Location	Key No.	Part No.	Part Name	
	53	P-1791	Lockwasher—Pump Lever Attach. Nut	
	54	P-2290	Nut—Pump Lever Attach.	
	55	P-17020	Nozzle—Pump Disch. No. 70	(VAR.)
	56	P-18135	Nut—Pump Rod	
	57	P-4	Cotter Pin—Pump Rod Nut	
	58	*P-22724	Rod—Fast Idle	
	59	*P-22723	Lever—Fast Idle	
	60	P-12400	Washer—Fast Idle Lever Washer	
	61	P-21338	Cotter Pin—Fast Idle Lever Washer	
	62	112-S-22	Cotter Pin—Fast Idle Rod	
	63	*P-22722	Assy.—Choke Lever	
		P-22726	Choke Lever	
		P-18300	Choke Lever Clamp Screw	
		P-18299	Choke Lever Clamp Screw Nut	
	64	P-20655	Choke Stem	
	65	P-3881	Pin—Choke Stem	
	66	P-17081	Collar—Choke Stem	
	67	P-16161	Screw—Choke Stem Collar Set	
	68	P-4735	Washer—Choke Stem	
	69	P-21067	Float Cover	
		P-17828	Vent Cap	
		P-9802	Vent Cap Attach Rivet	
	70	P-21068	Gasket—Float Cover	
	71	P-2266	Screw—Float Cover Attach.	
	72	P-12167	Lockwasher—Float Cover Attach. Screw	
	73	P-15477	Idle Air Bleeder—No. 53	(VAR.)
	74	P-15459	Plug—Idle Channel ¼"	
	75	P-21053	Plug—Pump Disch Channel	
	76	P-15458	Plug—Idle Disch Hole No. 10	
	77	P-19983	Lead Ball ⅛"	
	78	P-21655	Insulator—Main Body	
	79	P-19448	Gasket—Power By-Pass Jet	

When Servicing Carburetor; Please Note:

New Style—(155) **P-22724** Fast Idle Rod
Use **P-22722** Choke Lever
Use **P-22723** Fast Idle Lever

Old Style—(126) **P-19367** Fast Idle Rod
Use **P-20653** Choke Lever
Use **P-21169** Fast Idle Lever

These parts are not interchangeable due to differences in sizes.

BENDIX PRODUCTS DIVISION
SOUTH BEND **OF BENDIX AVIATION CORPORATION** **INDIANA**

STROMBERG "EX-22" CARBURETOR

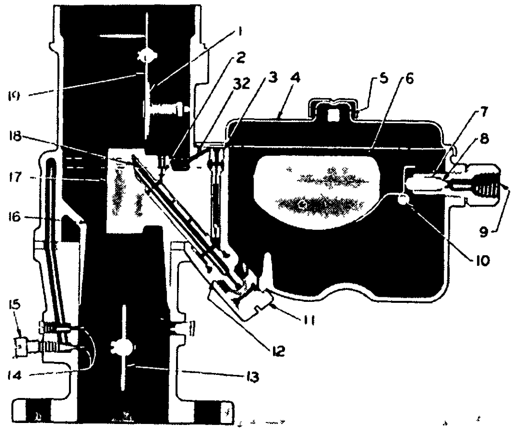
STROMBERG NO. A-17982 (CODE NO. 3-2C) DODGE SYMBOL 639141

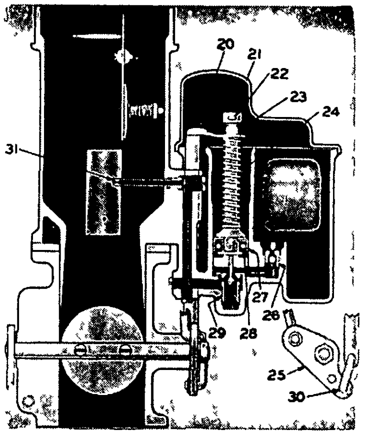
SIZE: 1¼" S. A. E. 2-11/16" FLANGE CENTERS **REPLACE WITH BXOV-2 EQPT. A-19032**

1935
DODGE
MODEL
"DU"
3¼"x4⅜"—6 cyl.

PARTS ILLUSTRATED

1 Poppet Valve
2 High Speed Bleed
3 Idle Tube
4 Float Chamber Cover
5 Float Chamber Vent
6 Float
7. Float Needle Valve
8 Float Needle Valve Seat
9 Gasoline Inlet
10. Float Fulcrum Pin
11 Main Discharge Jet Plug
12. Main Metering Jet
13. Throttle Valve
14. Idle Discharge Holes
15. Idle Needle Valve
16 Primary Venturi
17 Auxiliary Venturi
18. Main Discharge Jet
19 Choke Valve
20 Pump Rod
21 Power Adjustment Nut
22. Cotter Pin
23 Piston Connecting Rod
24 Connecting Rod Spring
25 Pump Lever
26 Check Valve
27 Pump Piston
28 Pump Piston Spring
29 Power By-Pass Jet
30 Pump Lever Link
31 Pump Discharge Nozzle





Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **5/8"** below top surface of float chamber (without gasket) at 3 lbs. pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level.)

MAIN METERING SYSTEM—Venturi **1-5/32"; Main** Discharge Jet **No. 28-36** P-21337 **(Tool T-24967);** High Speed Bleeder **No. 70** (in body); Main Metering Jet **.058"** P-17004 **(Tool T-23844); (Tool T-19099)** used to remove main jet plug; Main Metering System controls the flow of fuel up to approximately 65 to 70 M. P. H.

POWER SYSTEM—Combination Power and Pump By-Pass Jet **4 No. 56** P-18149 Pump piston to rest on seat of by-pass jet (less over-travel) with throttle valve opened **3/8"** (measure with shank end of **3/8"** drill) adjust pump stem nut to obtain correct setting. The Power Jet is brought into action at approximately. 65 to 70 M. P. H.

ACCELERATION — Pump Discharge Nozzle **No. 65** P-18126; Pump capacity **11** to **15** c.c. per 10 fast strokes and **15** to **19** c.c. per 10 slow strokes. (Middle setting.) **(Tool T-24972)** Pump action takes place during acceleration period only.

IDLE SYSTEM—Idle Discharge Holes **No. 56-58;** with throttle valve fully closed and **No. 58** drill in idle hole, edge of valve is located **.018" + — .004"** from **No. 58** drill; Idle Air Bleed **No. 55** P-15477; Idle Tube **No. 70** P-17007. **Adjustment:** Adjust to smooth running, OUT to make richer and IN to make leaner. Throttle at 7 to 8 M. P. H.

VACUUM SPARK CONTROL—With throttle fully closed and **No. 50** drill in spark hole, edge of valve is located **Flush** with **No. 50** drill.

FLANGE GASKET—P-4752.

SPECIAL TOOLS REQUIRED — Use Dodge complete Tool Kit **SER. 375;** T-24733 Float Adjuster; T-24967 Main Discharge Jet Remover; T-23844 Main Metering Jet Wrench; T-24970 By-Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burrette Gauge; T-24968 Handle; T-19099 Main Jet Plug Screw Driver.

MOTOR TUNE-UP DATA

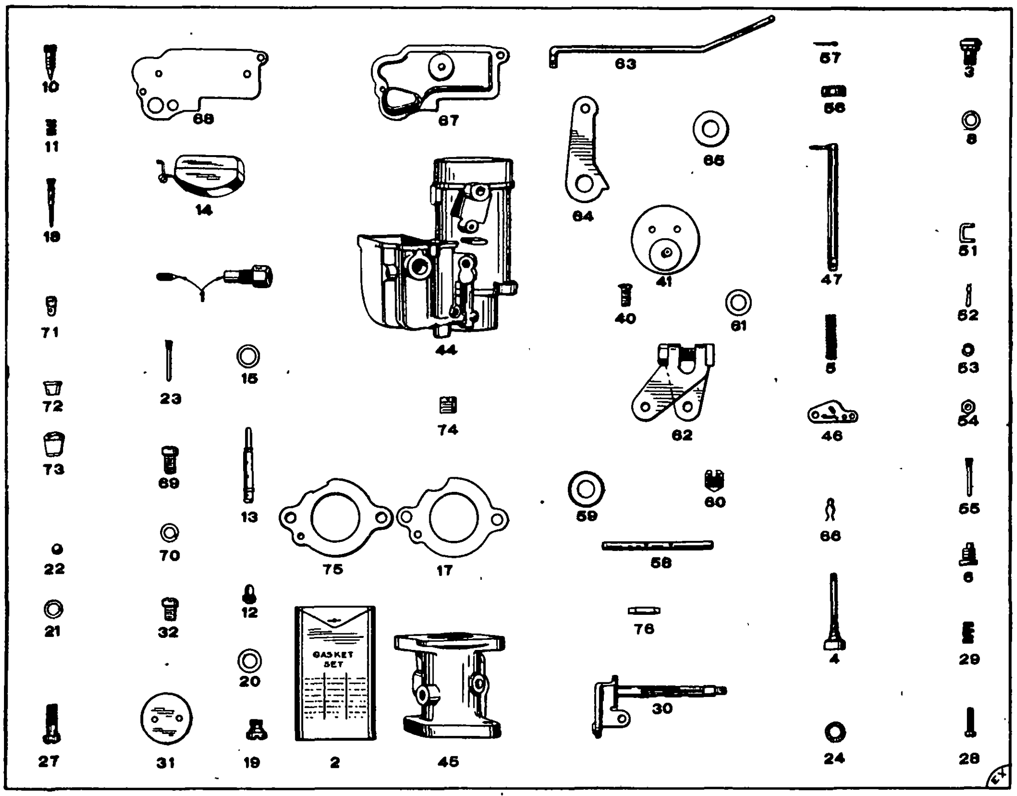
SPARK PLUGS—.025".
Clean and adjust at regular intervals.

DISTRIBUTOR—.018" to .020".
Breaker gap set .018" to .020".
Replace if necessary.

VALVES—Intake: .006".
Exhaust: .008". Engine hot.

IGNITION TIMING—Breaker contacts to open 4° A. T. D. C. when corresponding mark on impulse neutralizer is in line with pointer.

SERVICE RECOMMENDATION — Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No.	Part No.	Part Name
	1	P-20774	Float Needle Valve & Seat—.086" (NOT VAR.)
	2	J-4387-G	Complete Gasket Set
	3	P-18149	Power—By-Pass Jet 4 No. 56 (NOT VAR.)
	4	P-19167	Pump Piston & Stem (Includes P-16960 Spring)
	5	P-20666	Spring—Pump Duration
	6	P-18144	Check Valve—Pump Inlet
	8	P-6855	Gasket—By-Pass Jet
	10	P-17402	Idle Needle Valve
	11	P-15481	Spring—Idle Needle Valve
	12	P-17004	Metering Jet .058" (VAR.)
	13	P-21337	Main Disch. Jet No. 28-36 (NOT VAR.)
	14	P-17486	Float with Lever
	15	P-10666	Gasket—Float Needle Valve Seat
	17	P-19323	Gasket—Main Body
	18	P-17007	Idle-Tube No. 70 (NOT VAR.)
	19	P-18130	Plug—Main Disch. Jet
	20	P-60308	Gasket—Main Disch. Jet Plug
	21	P-8838	Lockwasher—Main Body Attach. Screw
	22	P-18772	Lead Ball
	23	P-18125	Screw—Fulcrum—Float Lever
	24	P-16960	Spring—Pump Piston Leather Expansion
	27	P-19339	Screw—Main Body Attach.
	28	P-15456	Screw—Throttle Stop
	29	P-15831	Spring—Throttle Stop Screw
	30	P-21171	Throttle Lever and Stem
	31	P-6454	Throttle Valve (20°) (VAR.)
	32	P-16717	Screw—Throttle Valve Attach.
	40	P-4522	Screw—Choke Valve Attach.
	41	P-20663	Choke Valve
	44	P-20682-T	Assy.—Main Body 1-5/32" Venturi **No. 70** High Speed Bleeder (VAR.)

NOTE—For parts marked (VAR.) size must be specified when ordering.

Bin Location	Key No.	Part No.	Part Name
	45	P-20631	Assy.—Throttle Body **No. 58-58** Idle Disch. Holes **No. 50** Spark Hole (VAR.)
		P-19370	Throttle Stop Pin
	46	P-20628	Pump Lever
	47	P-19165	Pump Rod
	51	P-20203	Pump Link
	52	P-19374	Cotter Pin—Pump Link
	53	P-1791	Lockwasher—Pump Lever Attach. Nut
	54	P-2290	Nut—Pump Lever Attach.
	55	P-18126	Nozzle—Pump Disch. **No. 65** (VAR.)
	56	P-18135	Nut—Pump Rod
	57	P-4	Cotter Pin—Pump Rod Nut and Fast Idle Rod
	58	P-20655	Stem—Choke
	59	P-17081	Collar—Choke Stem
	60	P-16161	Screw—Choke Stem Collar Set
	61	P-4735	Washer—Choke Stem
	62	P-20653	Lever—Choke
		P-20654	Choke Lever
		P-18300	Choke Lever Clamp Screw
		P-18299	Choke Lever Clamp Screw Nut
	63	P-19367	Rod—Fast Idle
	64	P-21169	Lever—Fast Idle
	65	P-12400	Washer—Fast Idle Lever
	66	P-21338	Cotter Pin—Fast Idle Lever Washer
	67	P-18124-F	Float Cover
	68	P-17778	Gasket—Float Cover
	69	P-2866	Screw—Float Cover Attach
	70	P-12167	Lockwasher—Float Cover Attach. Screw
	71	P-15477	Idle Air Bleeder—**No. 55** (VAR.)
	72	P-15459	Plug—Idle Channel ¼"
	73	P-21053	Plug—Pump Disch. Channel
	74	P-6387	Plug—Idle Disch. Hole
	75	P-19322	Insulator—Main Body
	76	P-3881	Pin—Choke Stem End

BENDIX PRODUCTS DIVISION

SOUTH BEND OF BENDIX AVIATION CORPORATION **INDIANA**

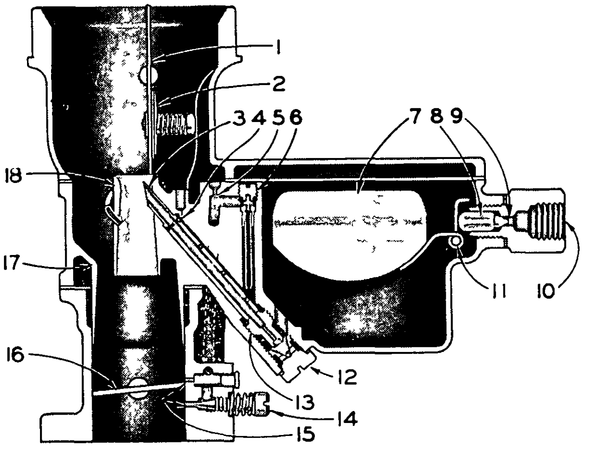
STROMBERG "EE-7/8" CARBURETOR

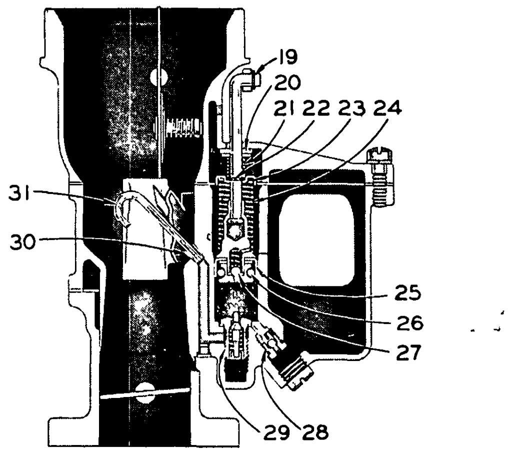
STROMBERG NO. A-17690 (MODEL 54) FORD SYMBOL SE-67-9510
STROMBERG NO. A-17800 (MODEL 74) FORD SYMBOL 52-9510-B
STR. NO. A-17860 (MODEL 74, 5,000 TO 10,000 FT. ALT.) FORD SYMBOL 52-9510-C
STR. NO. A-17910 (MODEL 74, 10,000 TO 15,000 FT. ALT.) FORD SYMBOL 52-9510-D
STR. NO. A-17900 (MODEL 74, 15,000 FT. ALT. & UP) FORD SYMBOL 52-9510-E
(NOTE: ALL OF THE ABOVE ARE MARKED "81" ON SIDE OF MAIN BODY)
SIZE: ⅞" DUAL D. D. 3-HOLE FLANGE.

1936-38 FORD

MODELS
"54" & "74"
2.6"x3.2"—8 cyl.

PARTS ILLUSTRATED





1. Choke Valve
2. Poppet Valve
3. Main Discharge Jet
4. High Speed Bleeder
5. Idle Air Bleeder
6. Idle Tube
7. Float
8. Float Needle Valve
9. Float Needle Valve Seat
10. Gasoline Inlet
11. Float Fulcrum Pin
12. Main Discharge Jet Plug
13. Main Metering Jet
14. Idle Needle Valve
15. Idle Discharge Holes
16. Throttle Valve
17. Primary Venturi
18. Auxiliary Venturi
19. Pump Link
20. Dust Washer
21. Dust Washer Spring
22. Retainer Washer Lock
23. Duration Spring Retainer Washer
24. Pump Duration Spring
25. Pump Piston
26. Pump Piston Expansion Spring
27. Pump Relief Valve
28. Pump Inlet Check Valve
29. Power By-Pass Jet
30. Pump Discharge Nozzle Holder
31. Pump Discharge

Note—Specifications below are for latest production; previous major changes listed on Parts Page.

FUEL LEVEL—Measure **15/32"** below top surface of float chamber (without gasket) at 3 lbs. pressure, use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level.)

MAIN METERING SYSTEM—Venturi **13/16"**; Main Discharge Jet **No. 36** P-19440 **(Tool T-24925)**; High Speed Bleeder **No. 65** (in body); Main Metering Jet **.035"** P-19442 **(Tool T-24924)**; **.033"** used in 5,000 to 10,000 ft. alt., **.032"** used in 10,000 to 15,000 ft. alt., **.031"** used in 15,000 ft. alt. and up. Use **Tool T-19099** to remove main jet plug; Main Metering System controls the flow of fuel up to approximately 65 to 70 M. P. H.

POWER SYSTEM—Combination Power and Pump By-Pass Jet **No. 71** P-21642. Pump piston to rest on seat of by-pass jet (less over-travel) with throttle valve opened **9/32" + — 1/64"** (measure with shank end of **9/32"** drill) adjust by bending pump fulcrum arm at ball joint end. The Power Jet is brought into action at approximately 65 to 70 M. P. H.

ACCELERATION—Pump Discharge Nozzles **No. 60;** Pump capacity **5** to **9** c.c. per 10 fast strokes and **5** to **9** c.c. per 10 slow strokes. (Minimum setting.) **(Tool T-24972)** Pump action takes place during acceleration period only.

IDLE SYSTEM—Idle Discharge Holes **No. 56-60;** with throttle valve fully closed and **No. 60** drill in idle hole, edge of valve is located **.030" + — .004"** from **No. 60** drill; Idle Air Bleed **No. 38** (in main body); Idle Tube **No. 70** P-19424. **Adjustment:** Adjust to smooth running, one barrel at a time, OUT to make richer and IN to make leaner. Throttle at 7 to 8 M. P. H.

FLANGE GASKET—P-20466.

SPECIAL TOOLS REQUIRED—T-24733 Float Adjuster; T-24925 Main Discharge Jet Remover; T-24924 Main Metering Jet Wrench; T-24970 By-Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burrette Gauge; T-24968 Handle; T-19099 Main Jet Plug Screw Driver.

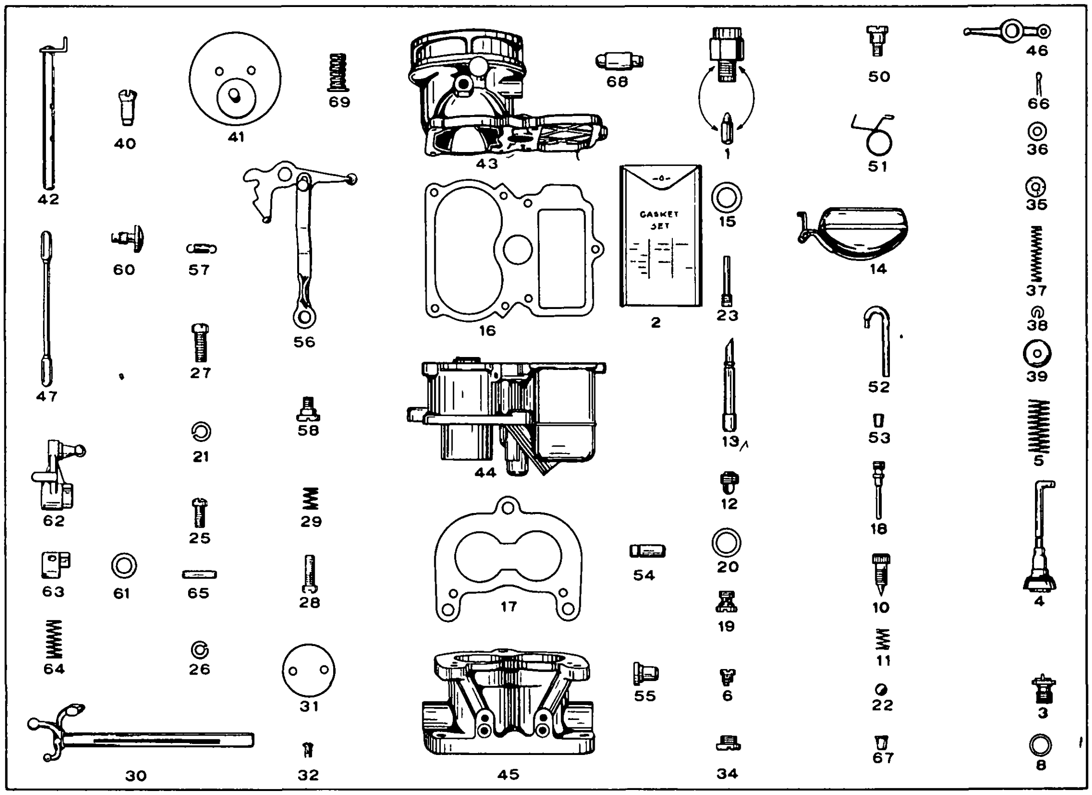
MOTOR TUNE-UP DATA

SPARK PLUGS—.025".
Clean and adjust at regular intervals.

DISTRIBUTOR—.014" to .016".
Breaker gap set .014" to .016".
Replace if necessary.

VALVES—Intake: .0125" (Go) .0135" (No Go).
Exhaust: .0125" (Go) .0135" (No Go).
Engine hot.

IGNITION TIMING—Vacuum brake adj.: back off the adjustment until the engine pings under load. Then screw down the adjustment nut just enough to remove the ping and tighten locknut.



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key N .	Part No.	Part Name	
	1	P-20287	Float Needle Valve & Seat— 098 '	(NOT VAR.)
	2	J-4790-G	Complete Gasket Set	
	3	P-21642	Power By-Pass Jet No 71	(NOT VAR.)
	4	P-22706	Pump Piston and Link	
	4-A	P-22709	Pump Piston, Link and Spring (Complete)	
	5	P-21618	Spring—Pump Duration	
	6	P 18144	Check Valve—Pump Inlet	
	8	P-19448	Gasket—By-Pass Jet	
	10	P-17402	Idle Needle Valve	
	11	P-18710	Spring—Idle Needle Valve	
	12	P-19442	Metering Jet **.035"**	(VAR.)
	13	P 19440	Main Discharge Jet—No 36	(NOT VAR.)
	14	P-19825	Float with Lever	
	15	P 6564	Gasket—Float Needle Valve and Seat	
	16	P-19428	Gasket—Air Horn	
	17	P-21624	Gasket—Main Body	
	18	P-19424	Idle Tube—No 70	(NOT VAR.)
	19	P-19441	Plug—Main Discharge Jet	
	20	P-7338	Gasket—Main Discharge Jet Plug	
	21	P-3157	Lockwasher—Main Body Att Screw	
	22	P-18772	Lead Ball $\frac{1}{16}$'	
	23	P-18125	Screw—Fulcrum—Float Lever	
	25	P 3199	Screw—Air Horn Attach	
	26	P-1791	Lockwasher—Air Horn Attach Screw	
	27	P-709	Screw—Main Body Attach	
	28	P-18288	Screw—Throttle Stop	
	29	P 15831	Spring—Throttle Stop Screw	
	30	P-21625	Throttle Lever and Stem	
		P-21902	Ball Joint Connector (Long)	
		P-19509	Ball Joint Connector (Short)	
	31	P-21620	Throttle Valve (5°)	(NOT VAR.)
	32	P 20904	Screw—Throttle Valve Attach	
	34	P-19716	Plug—Check Valve	
	35	P-17380	Packing—Felt	
	36	P-17060	Washer—Splash—Pump Link	
	37	P-19488	Spring—Packing Retainer	
	38	P-19459	Washer—Horseshoe	
	39	P-21619	Washer—Spring Retainer	
	40	P-4522	Screw—Choke Valve Attach	
	41	P-19410	Choke Valve	
	42	P-19407	Choke Lever and Stem	
	43	P-21927-T	Air Horn	
	43-A	P-21928	Assy —Air Horn and Valve	
	44	P 21612	Assy —Main Body **13/16"** Venturi **No. 65** H S Bleeder **No. 38** Idle Air Bleeder **No. 60** Pump Discharge Tube	(VAR.)
	45	P-22094	Assy—Throttle Body Complete with **No. 56-60** Idle Holes—Lever and Link—Throttle Lever and Stem and Valves—Throttle Loose, Lever	(VAR.)
		P 22093	Throttle Body **No. 56-60** Idle Holes—Lever and Link and Bushings	(VAR.)
		P-21622	Throttle Body	
	46	P 19427	Pump Lever	
	47	P-21630	Pump Rod	
	50	P 19433	Screw—Pump Lever Fulcrum	
	51	P 19490	Spring—Pump Lever Return	
	52	P-19429	Tube—Pump Disch No 60	(NOT VAR.)
	53	P 19430	Wedge—Pump Disch Tube	
	54	P-19289	Bushing—Throttle Stem	
	55	P-19817	Bushing—Throttle Stem and Link	
	56	P-21926	Choke Lever and Link	
	57	P-19425	Spring—Choke Lever Return	
	58	P-19819	Screw—Choke Lever Fulcrum	
	60	P-19818	Cap—Choke Stem	
	61	P-19821	Washer—Choke Lever Spring	
	62	P-19974	Throttle Loose Lever	
	63	P 19719	Stop—Throttle Loose Lever	
	64	P-19723	Spring—Throttle Loose Lever	
	65	P-19720	Pin—Throttle Loose Lever Stop	
	66	P-7170	Cotter Pin—Pump Lever and Link	
	67	P-15458	Plug—Idle Channel and Disch Holes No 10	
	68	P-21929	Plunger—Choke Lever Lock	
	69	P-21930	Spring—Choke Lever Lock Plunger	

NOTE—For parts marked (VAR.) size must be specified when ordering.

PARTS EXCEPTIONS

A 17800—EE-7/8—Ford—Sym. No. 52 9510-B.

Same as A-17690

A-17860—EE-7/8—Ford—Sym. No. 52-9510 C (5,000-10,000 ft. Altitude).

Same as A-17690 except

P-19442—Metering Jet 033" in place of 035"

A-17900—EE-7/8—Ford—Sym. No. 52-9510-E (15,000 ft. Altitude and up).

Same as A-17690 except

P-19442—Metering Jet 031" in place of 035"

A-17910—EE-7/8—Ford—Sym. No. 52-9510-D (10,000 to 15,000 ft. Altitude).

Same as A-17690 except

P-19442—Metering Jet 032" in place of 035"

BENDIX PRODUCTS DIVISION
SOUTH BEND **OF BENDIX AVIATION CORPORATION** **INDIANA**

STROMBERG "EE-1" CARBURETOR

STROMBERG NO. A 18271 (NORMAL ALTITUDE) FORD SYMBOL 67 9510A
STROMBERG NO A 18281 (5,000 FT ALTITUDE) FORD SYMBOL 67 9510B
STROMBERG NO A 18291 (10,000 FT. ALTITUDE) FORD SYMBOL 67 9510C
STROMBERG NO. A 18301 (15,000 FT. ALTITUDE) FORD SYMBOL 67 9510D
(NOTE:—ALL OF THE ABOVE ARE MARKED "97" ON SIDE OF MAIN BODY)

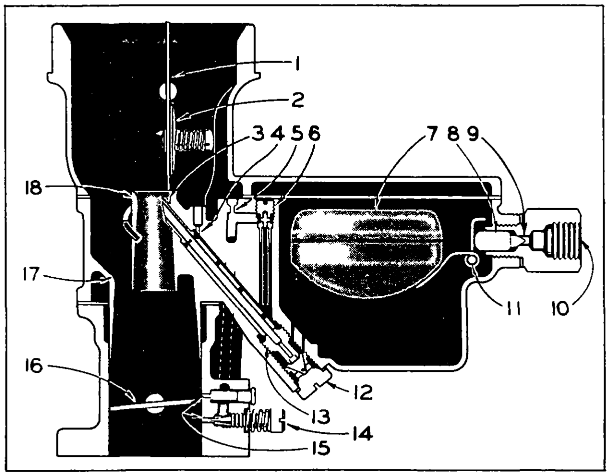
SIZE: 1" DUAL, D. D. 3-HOLE FLANGE

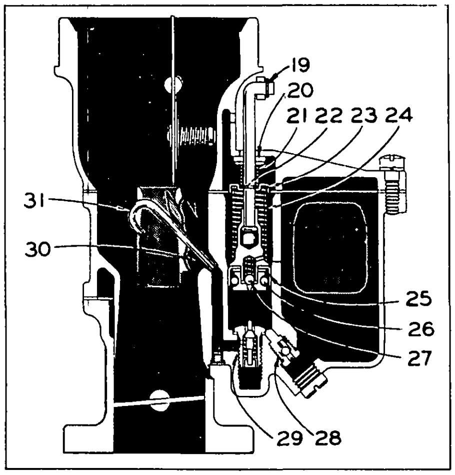
1936-37-38
FORD

MODELS
V-8, "68"
3-1/16"x3¾"—8 cyl.

PARTS ILLUSTRATED

1 Choke Valve
2 Poppet Valve
3 Main Discharge Jet
4 High Speed Bleeder
5 Idle Air Bleeder
6 Idle Tube
7 Float
8 Float Needle Valve
9 Float Needle Valve Seat
10 Gasoline Inlet
11 Float Fulcrum Pin
12 Main Discharge Jet Plug
13 Main Metering Jet
14 Idle Needle Valve
15 Idle Discharge Holes
16 Throttle Valve
17 Primary Venturi
18 Auxiliary Venturi
19 Pump Link
20 Dust Washer
21 Dust Washer Spring
22 Retainer Washer Lock
23 Duration Spring Retainer Washer
24 Pump Duration Spring
25 Pump Piston
26 Pump Piston Expansion Spring
27 Pump Relief Valve
28 Pump Inlet Check Valve
29 Power By Pass Jet
30 Pump Discharge Nozzle Holder
31 Pump Discharge





Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **15/32"** below top surface of float chamber (without gasket) at 3 lbs pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level)

MAIN METERING SYSTEM—Venturi **31/32"**; Main Discharge Jet **No. 36** P-19440 **(Tool T-24925)**; High Speed Bleeder **No. 65** (in body), Main Metering Jet **.045"** P-19442 (normal alt) **.043"** (5,000 ft alt) **.041"** (10,000 ft alt) **.039"** (15 000 ft alt) **(Tool T-24924).** Use **Tool T-19099** to remove main jet plug, Main Metering System controls the flow of fuel up to approximately 65 to 70 M P H

POWER SYSTEM—Combination Power and Pump By-Pass Jet **No. 65** P-20467 Pump piston to rest on seat of by-pass jet (less over-travel) with throttle valve opened **19/64" + — 1/64"** (measure with shank end of **19/64"** drill) adjust by bending pump fulcrum arm at ball-joint end The Power Jet is brought into action at approximately 65 to 70 M P H

ACCELERATION—Pump Discharge Nozzles **No. 60;** Pump capacity **10** to **14** c c per 10 fast strokes and **8** to **12** c c per 10 slow strokes (Minimum setting) **(Tool T-24972).** Pump action takes place during acceleration period only

IDLE SYSTEM—Idle Discharge Holes **No. 56-60;** with throttle valve fully closed and **No. 60** drill in idle hole edge of valve is located **.030" + — .004"** from **No. 60** drill, Idle Air Bleed **No. 40** (in main body), Idle Tube **No. 70** P-19424 **Adjustment:** Adjust to smooth running, one barrel at a time, OUT to make richer and IN to make leaner Throttle at 7 to 8 M P H

FLANGE GASKET—P 20466

SPECIAL TOOLS REQUIRED—T-24733 Float Adjuster, T-24925 Main Discharge Jet Remover, T-24924 Main Metering Jet Wrench, T-24970 By-Pass Jet and Check Valve Tester, T-24972 Pump Capacity Burette Gauge, T 24968 Handle T-19099 Main Jet Plug Screw Driver

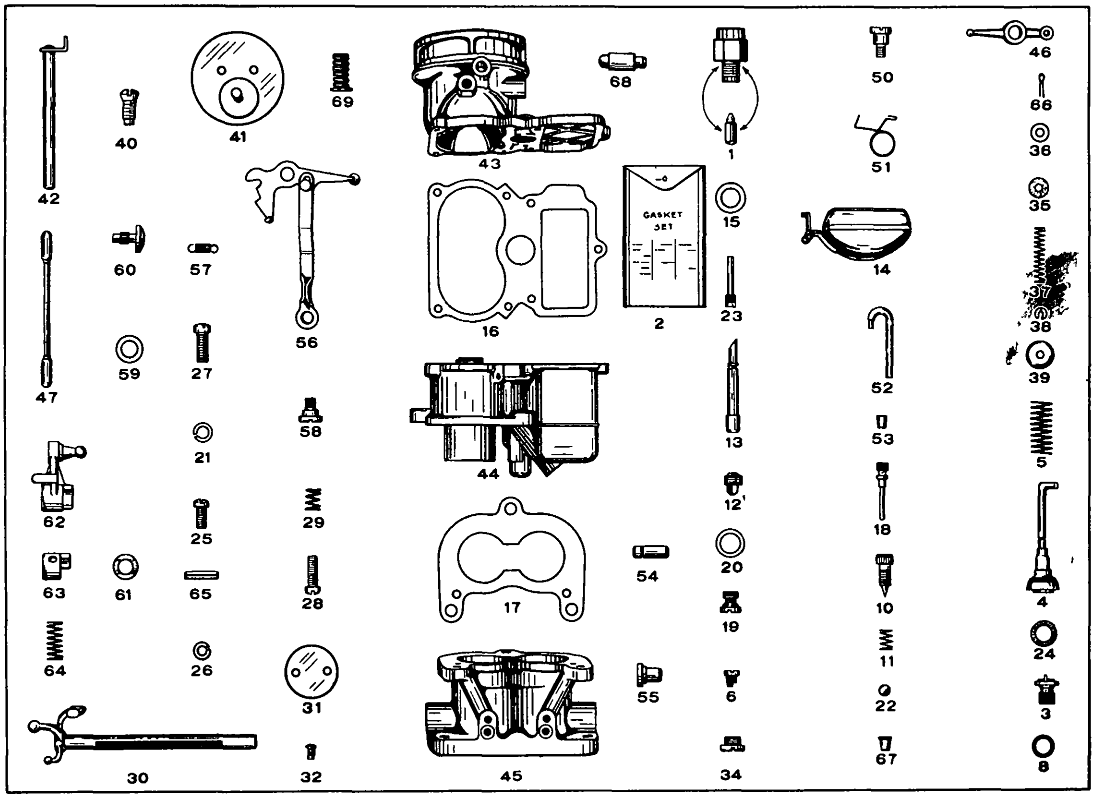
MOTOR TUNE-UP DATA

SPARK PLUGS—.025".
Clean and adjust at regular intervals.

IGNITION TIMING—(Vacuum brake adj.) Back off the adjustment until the engine pings under load. Then screw down the adjustment nut just enough to remove the ping and tighten locknut.

VALVES—Intake: .0125" (Go) .0135" (No Go).
Exhaust: .0125" (Go) .0135" (No Go).
Engine hot.

DISTRIBUTOR—.014" to .016".
Breaker gap set .014" to .016".
Replace if necessary.



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No.	Part No	Part Name	
	1	**P 20287**	Float Needle Valve & Seat 098	**(NOT VAR)**
	2	**J 4383 G**	Complete Gasket Set	
	3	**P 20467**	Power By Pass- No 65	**(NOT VAR)**
	4	**P 19486**	Pump Piston and Link **(Includes P 16960 Spring)**	
	4 A	**P 19487**	Pump Piston Link and Spring (Complete)	
	5	**P 19458**	Spring—Pump Duration	
	6	**P 18144**	Check Valve -Pump Inlet	
	8	**P 19448**	Gasket -By Pass Jet	
	10	**P 17402**	Idle Needle Valve	
	11	**P 15481**	Spring -Idle Needle Valve	
	12	**P 19422**	Metering Jet—**.045**	**(VAR)**
	13	**P 19440**	Main Discharge Jet No 36	**(NOT VAR)**
	14	**P 19825**	Float with Lever	
	15	**P 10666**	Gasket -Float Needle Valve Seat	
	16	**P 19428**	Gasket Air Horn	
	17	**P 19432**	Gasket—Main Body	
	18	**P 19424**	Idle Tube No 70	**(NOT VAR)**
	19	**P 18130**	Plug Main Discharge Jet	
	20	**P 7338**	Gasket Main Disch Jet Plug —Check Valve Plug	
	21	**P 3157**	Lockwasher Main Body Attach	
	22	**P 18772**	Lead Ball	
	23	**P 18125**	Screw Fulcrum—Float Lever	
	24	**P 16960**	Spring —Pump Piston Leather Expansion	
	25	**P 3199**	Screw -Air Horn Attach	
	26	**P 1791**	Lockwasher Air Horn Attach Screw	
	27	**P 709**	Screw—Main Body Attach	
	28	**P 18288**	Screw—Throttle Stop	
	29	**P 15831**	Spring—Throttle Stop Screw	
	30	**P 21625**	Throttle Lever and Stem	
		P 19509	Ball Joint (Short)	
		P 21902	Ball Joint (Long)	
	31	**P 19435**	Throttle Valve (5°)	**(VAR)**
	32	**P 20904**	Screw Throttle Valve Attach	
	34	**P 19716**	Plug Check Valve	
	35	**P 17380**	Washer Felt	
	36	**P 17060**	Washer Felt Packing Retainer	
	37	**P 19488**	Spring Felt Packing Retainer	
	38	**P 22045**	Washer Horseshoe	
	39	**P 22046**	Washer - Spring Retainer	
	40	**P 4522**	Screw Choke Valve Attach	

NOTE—For parts marked (VAR) size must be specified when ordering

Bin Location	Key No.	Part No	Part Name	
	41	**P 19410**	Choke Valve	
	42	**P 19407**	Choke Stem and Lever	
	43	**P 21927 T**	Air Horn	
	43 A	**P 21928**	Air Horn and Valve (Complete)	
	44	**P 21950**	Assy —Main Body **31/32'** Venturi **No 65** H S Bleeder **No 40** Idle Air Bleeder **No 60** Pump Disch Tubes	**(VAR)**
	45	**P 19400**	Throttle Body **No 56 60** Idle Disch Holes	**(VAR)**
	45 A	**P 21925**	Throttle Body Lever and Link	
	45 B	**P 22005**	Throttle Body (Complete) Link and Lever Throttle Stem & Lever -Valves & Loose Lever	
	46	**P 19427**	Pump Lever	
	47	**P 21630**	Pump Rod	
	50	**P 19433**	Screw—Pump Lever Fulcrum	
	51	**P 19490**	Spring Pump Lever Return	
	52	**P 19429**	Tube Pump Discharge No 60	**(NOT VAR)**
	53	**P 19430**	Wedge Pump Discharge Tube	
	54	**P 19289**	Bushing Throttle Stem	
	55	**P 19817**	Bushing Throttle Stem	
	56	**P 21926**	Choke Lever and Link	
	57	**P 19425**	Spring Choke Lever Return	
	58	**P 19819**	Screw Choke Lever Fulcrum	
	59	**P 19820**	Washer - Choke Lever Fulcrum Screw Spring	
	60	**P 19818**	Cap Choke Stem	
	61	**P 19821**	Washer Choke Lever Spring	
	62	**P 19974**	Throttle Lever (Loose)	
	63	**P 19719**	Stop—Throttle Lever (Loose)	
	64	**P 19723**	Spring -Throttle Lever (Loose)	
	65	**P 19720**	Pin Throttle Lever (Loose) Stop	
	66	**P 7170**	Cotter Pin Pump Lever and Link	
	67	**P 15458**	Plug Idle Channel and Disch Hole No 10	
	68	**P 21929**	Plunger Choke Lever Lock	
	69	**P 21930**	Spring Choke Lever Lock Plunger	

A 18281—Ford EE 1—Sym No 67 9510 B (5 000 to 10 000 ft Alt)
1936 37 38
Same as A 18221 except P 19442 043 Met Jet

A 18291—Ford EE 1—Sym No 67 9510 C (10,000 to 15,000 Ft Alt)
1936 37 38
Same as A 18221 Except P 19442 041 Metering Jet

A 18301—Ford EE 1—Sym No 67 9510 D (15,000 Ft or Over)
1936 37 38
Same as A 18221 Except P 19442 039 Metering Jet

BENDIX PRODUCTS DIVISION
SOUTH BEND **OF BENDIX AVIATION CORPORATION** **INDIANA**

STROMBERG "EE-1" CARBURETOR

STROMBERG NO. A-17691 FORD SYMBOL 48-9510-D
STROMBERG NO. A-18231 FORD SYMBOL 68-9510
STROMBERG NO. A-17741 (HIGH ALTITUDE) FORD SYMBOL 48-9510-E

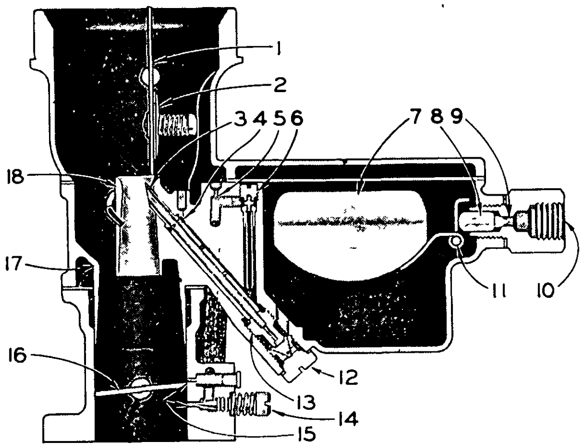
SIZE: 1" DUAL D. D. 3-HOLE FLANGE. **REPLACE WITH EE-1 EQPT. A-18271**

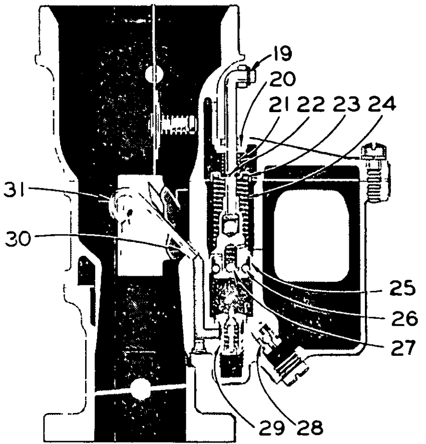
1935-36 FORD

MODELS
V-8, 68,
3-1/16"x3¾"—8 cyl.

PARTS ILLUSTRATED

1. Choke Valve
2. Poppet Valve
3. Main Discharge Jet
4. High Speed Bleeder
5. Idle Air Bleeder
6. Idle Tube
7. Float
8. Float Needle Valve
9. Float Needle Valve Seat
10. Gasoline Inlet
11. Float Fulcrum Pin
12. Main Discharge Jet Plug
13. Main Metering Jet
14. Idle Needle Valve
15. Idle Discharge Holes
16. Throttle Valve
17. Primary Venturi
18. Auxiliary Venturi
19. Pump Link
20. Dust Washer
21. Dust Washer Spring
22. Retainer Washer Lock
23. Duration Spring Retainer Washer
24. Pump Duration Spring
25. Pump Piston
26. Pump Piston Expansion Spring
27. Pump Relief Valve
28. Pump Inlet Check Valve
29. Power By-Pass Jet
30. Pump Discharge Nozzle Holder
31. Pump Discharge





Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **15/32"** below top surface of float chamber (without gasket) at 3 lbs. pressure, (use standard depth) gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level.)

MAIN METERING SYSTEM—Venturi **1-1/32"**; Main Discharge Jet **No. 36** P-19440 **(Tool T-24925)**; High Speed Bleeder **No. 65** (in body); Main Metering Jet **.048"** P-19442 **(Tool T-24924)**; **.046"** used in high altitude; **(Tool T-19099)** used to remove main jet plug; Main Metering System controls the flow of fuel up to approximately 65 to 70 M. P. H.

POWER SYSTEM—Combination Power and Pump By-Pass Jet **No. 63** P-19447. Pump piston to rest on seat of by-pass jet (less over-travel) with throttle valve opened **5/16" + — 1/64"** (measure with shank end of **5/16"** drill) adjust by bending pump fulcrum arm at ball joint end). The Power Jet is brought into action at approximately 65 to 70 M. P. H.

ACCELERATION — Pump Discharge Nozzles **No. 60;** Pump capacity **9** to **13** c.c. per 10 fast strokes and **13** to **17** c.c. per 10 slow strokes. **(Tool T-24972)** Pump action takes place during acceleration period only.

IDLE SYSTEM—Idle Discharge Holes **No. 56-60;** with throttle valve fully closed and **No. 60** drill in idle hole, edge of valve is located **.030" + — .004"** from **No. 60** drill; Idle Air Bleed **No. 40** (in main body); Idle Tube **No. 70** P-19424. **Adjustment:** Adjust to smooth running, one barrel at a time, OUT to make richer and IN to make leaner. Throttle at 7 to 8 M. P. H.

FLANGE GASKET—P-20466.

SPECIAL TOOLS REQUIRED—T-24733 Float Adjuster; T-24925 Main Discharge Jet Remover; T-24924 Main Metering Jet Wrench; T-24970 By-Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burrette Gauge; T-24968 Handle; T-19099 Main Jet Plug Screw Driver.

MOTOR TUNE-UP DATA

SPARK PLUGS—.025".

Clean and adjust at regular intervals.

DISTRIBUTOR—.012" to .014".

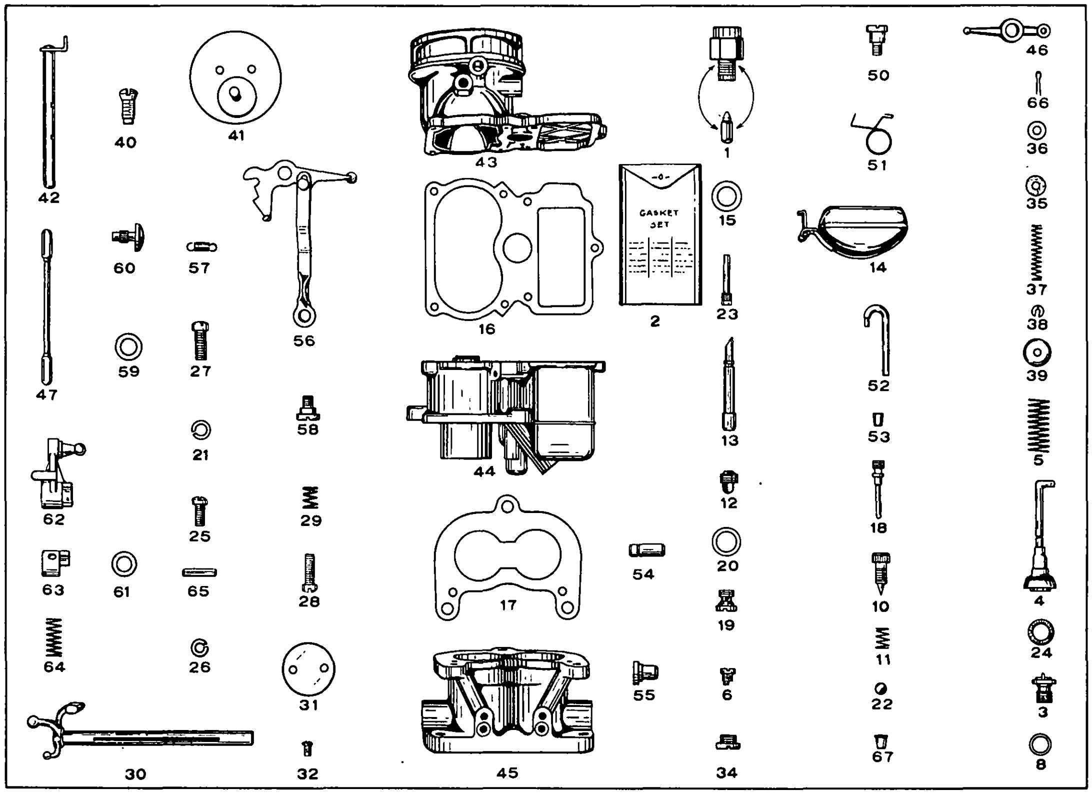
Breaker gap set .012" to .014".

Replace if necessary.

VALVES—Intake: .0125" (Go) .0135" (No Go).
Exhaust: .0125" (Go) .0135" (No Go).
Engine hot.

IGNITION TIMING—(Vacuum Brake Adjustment) Back off the adjustment until the engine pings under load. Then screw down the adjustment nut just enough to remove the ping and tighten locknut.

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No.	Part No.	Part Name
	1	P-20287	Float Needle Valve & Seat—.098" ....(NOT VAR.)
	2	J-4383-G	Complete Gasket Set
	3	P-19447	Power By-Pass Jet No. 63 ....(NOT VAR.)
	4	P-19486	Pump Piston and Link ....(Includes P-16960 Spring)
	4-A	P-19487	Pump Piston, Link and Spring (Complete)
	5	P-19458	Spring—Pump Duration
	6	P-18144	Check Valve—Pump Inlet
	8	P-19448	Gasket—By-Pass Jet
	10	P-17402	Idle Needle Valve
	11	P-15481	Spring—Idle Needle Valve
	12	P-19442	Metering Jet .048" ....(VAR.)
	13	P-19440	Main Disch. Jet No. 36 ....(NOT VAR.)
	14	P-19825	Float with Lever
	15	P-10666	Gasket—Float Needle Valve Seat
	16	P-19428	Gasket—Air Horn
	17	P-19432	Gasket—Main Body
	18	P-19424	Idle Tube—No. 70 ....(NOT VAR.)
	19	P-19441	Plug—Main Disch. Jet
	20	P-7338	Gasket—Main Disch. Jet Plug & Check Valve Plug
	21	P-3157	Lockwasher—Main Body Attach. Screw
	22	P-18772	Lead Ball
	23	P-18125	Screw—Fulcrum—Float Lever
	24	P-16960	Spring—Pump Piston Leather Expansion
	25	P-3199	Screw—Air Horn Attach.
	26	P-1791	Lockwasher—Air Horn Attach. Screw
	27	P-709	Screw—Main Body Attach.
	28	P-18288	Screw—Throttle Stop
	29	P-15831	Spring—Throttle Stop Screw
	30	P-19721	Throttle Lever and Stem
	31	P-19435	Throttle Valve (5°) ....(VAR.)
	32	P-20904	Screw—Throttle Valve Attach.
	34	P-19716	Plug—Check Valve
	35	P-17380	Washer—Felt
	36	P-17060	Washer—Felt Packing Retainer
	37	P-19488	Spring—Felt Packing Return
	38	P-22045	Washer—Horseshoe
	39	P-22046	Washer—Spring Retainer
	40	P-4522	Screw—Choke Valve Attach.
	41	P-19410	Choke Valve
	42	P-19407	Choke Lever and Stem
	43	P-20693-T	Air Horn

NOTE—For parts marked (VAR.) size must be specified when ordering.

Bin Location	Key No.	Part No.	Part Name
	43-A	P-20694	Air Horn and Valve (Complete)
	44	P-20691	Assy.—Main Body **1-1/32"** Venturi **No. 65** H. S. Bleeder **No. 40** Idle Air Bleed **No. 60** Pump Disch. Tubes ....(VAR.)
	45	P-19400	Throttle Body **No. 56-60** Idle Disch. Holes....(VAR.)
	45-A	P-19811	Throttle Body with Link & Lever and Bushing
	45-B	P-20284	Throttle Body Complete—Link and Lever and Bushing—Throttle Stem and Lever—Valves and Loose Lever
	46	P-19427	Pump Lever
	47	P-19420	Pump Rod
	50	P-19433	Screw—Pump Lever Fulcrum
	51	P-19490	Spring—Pump Lever Return
	52	P-19429	Tube—Pump Disch.—No. 60 ....(NOT VAR.)
	53	P-19430	Wedge—Pump Disch. Tube
	54	P-19289	Bushing—Throttle Stem
	55	P-19817	Bushing—Throttle Stem and Link
	56	P-19812	Choke Lever and Link
	57	P-19425	Spring—Choke Lever Return
	58	P-19819	Screw—Choke Lever Fulcrum
	59	P-19820	Washer—Choke Lever Fulcrum Screw Spring
	60	P-19818	Cap—Choke Stem
	61	P-19821	Washer—Choke Lever Spring
	62	P-19974	Throttle Loose Lever
	63	P-19719	Stop—Throttle Loose Lever
	64	P-19723	Spring—Throttle Loose Lever
	65	P-19720	Pin—Throttle Loose Lever Stop
	66	P-7170	Cotter Pin—Pump Lever and Link
	67	P-15458	Plug—Idle Channel & Disch. Hole No. 10

PARTS EXCEPTIONS

A-17741—EE-1—Ford Sym.—48-9510-E (High Altitude).
P-19442—.046 Metering Jet.

A-18231—EE-1 Ford 1936 Model 68 Sym. No. 68-9510.
Same as A-17691 with the Exception of
P-21630—Pump Rod in place of P-19420.
P-21625—Throttle Lever and Stem in place of P-19721.
P-19509—Ball Joint (Short).
P-21902—Ball Joint (Long).
No. 45-B P-22003—Throttle Body (Complete)—Link and Lever and Bushing. Throttle Stem and Lever—Throttle Valve and Loose Lever.

BENDIX PRODUCTS DIVISION
SOUTH BEND **OF BENDIX AVIATION CORPORATION** **INDIANA**

Printed in U. S. A.

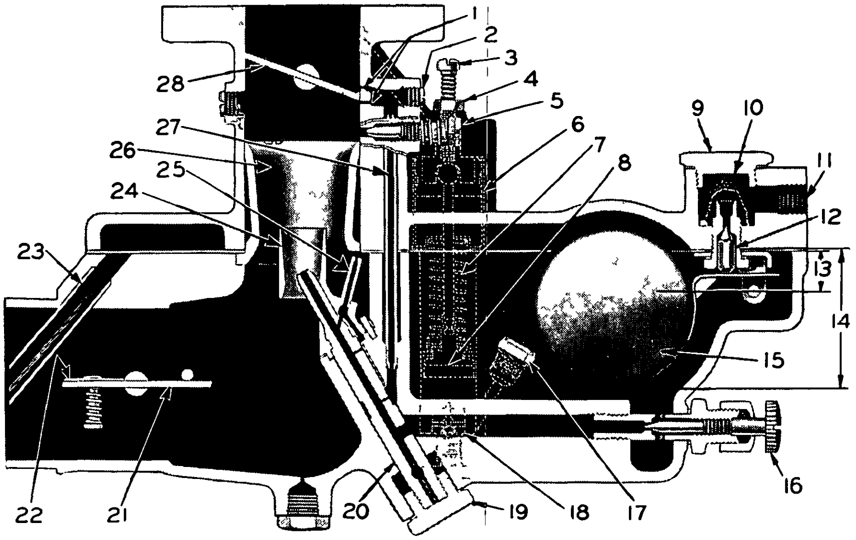
STROMBERG SF-2 CARBURETOR

FOR STROMBERG NUMBER, CODE NUMBER, MANUFACTURER'S SYMBOL NUMBER, MODEL, BORE AND STROKE INFORMATION SEE PARTS PAGE

SIZE 1-1/4" UPDRAFT S A.E. 2-11/16" FLANGE CENTER

PARTS ILLUSTRATED

1 Idle Discharge Holes
2 Idle Discharge Plug
3 Pump Adjustment Screw
4 Pump Adjustment Lock Screw
5 Idle Needle Valve
6. Vacuum Piston
7. Accelerating Pump Spring
8. Accelerating Pump Piston
9. Strainer Plug
10. Strainer
11 Gasoline Inlet
12 Float Needle Valve and Seat
13 Fuel Level (see instructions)
14 Float Setting (see instructions)
15 Float
16 Adjustable Metering Jet
17 Check Valve
18. Combination Power and Pump By-Pass Jet
19. Main Discharge Jet Nut
20. Main Discharge Jet
21. Choke Valve
22 Choke Poppet Valve
23 Vent Tube
24 Small Venturi
25. High Speed Bleed
26 Large Venturi
27. Idle Tube
28. Throttle Valve



Main Metering System—

The main metering system controls the flow of the fuel during the intermediate speed of the engine Fuel enters the carburetor through the gasoline inlet (11) into the float chamber. From here the gasoline passes through the metering jet (16) which controls the supply of fuel for the main metering system, to the main discharge jet (20). The main discharge jet delivers the fuel to the small venturi (24) (auxiliary venturi) where it is mixed with air and flows into the carburetor barrel. The amount of air used in the mixture is controlled by the large venturi (26)) (When replacing main discharge jet use new P-21372 gasket.

Power System—

For maximum power or higher speeds a richer mixture is needed. This is accomplished by the power system During the intermediate speed of the engine sufficient fuel is furnished by the main metering jet However for hard pulls and wide open throttle this supply is not equivalent to the engine demands; therefore another valve comes into operation to supply this extra amount of gasoline needed. While the engine runs at a moderate speed a certain amount of manifold vacuum is created. This vacuum holds vacuum piston (6) in an up position but when the throttle is opened above normal to compensate for the extra power that may be needed from the engine the vacuum falls off accordingly and the vacuum piston drops until the pump piston (8), which is directly connected to the vacuum piston, comes in contact with and opens the valve in the by-pass jet (18) The opening of this valve allows an additional amount of gasoline to enter the main discharge jet and enrichens the mixture This is known as the Power System.

Accelerating System—

As explained above, the vacuum piston of the pump is held in an up position by the manifold vacuum created by the engine On sudden opening of the throttle the vacuum drops off very rapidly and the vacuum piston (6) is released When this occurs accelerating pump spring (7) forces pump piston (8) down which in turn forces a discharge of gasoline to be driven through the by-pass jet (18) and out the main discharge jet This sudden surplus of fuel enrichens the mixture for the moment and furnishes the engine the extra power needed for fast acceleration. The amount of discharge can be controlled by the adjustment screw (3). Turn screw IN to lessen, OUT to make greater.

Idle System—

When the throttle valve is closed gasoline is delivered to the engine by means of the idle system of the carburetor Gasoline is taken up through the idle tube (27) which meters the quantity of fuel for the idle system It is mixed with air, the amount of which is governed by the idle needle valve (5) and reaches the engine by means of the idle holes (1) and up through the barrel of the carburetor. To make the mixture richer turn idle needle valve (5) **IN**, to make mixture leaner screw **OUT**.

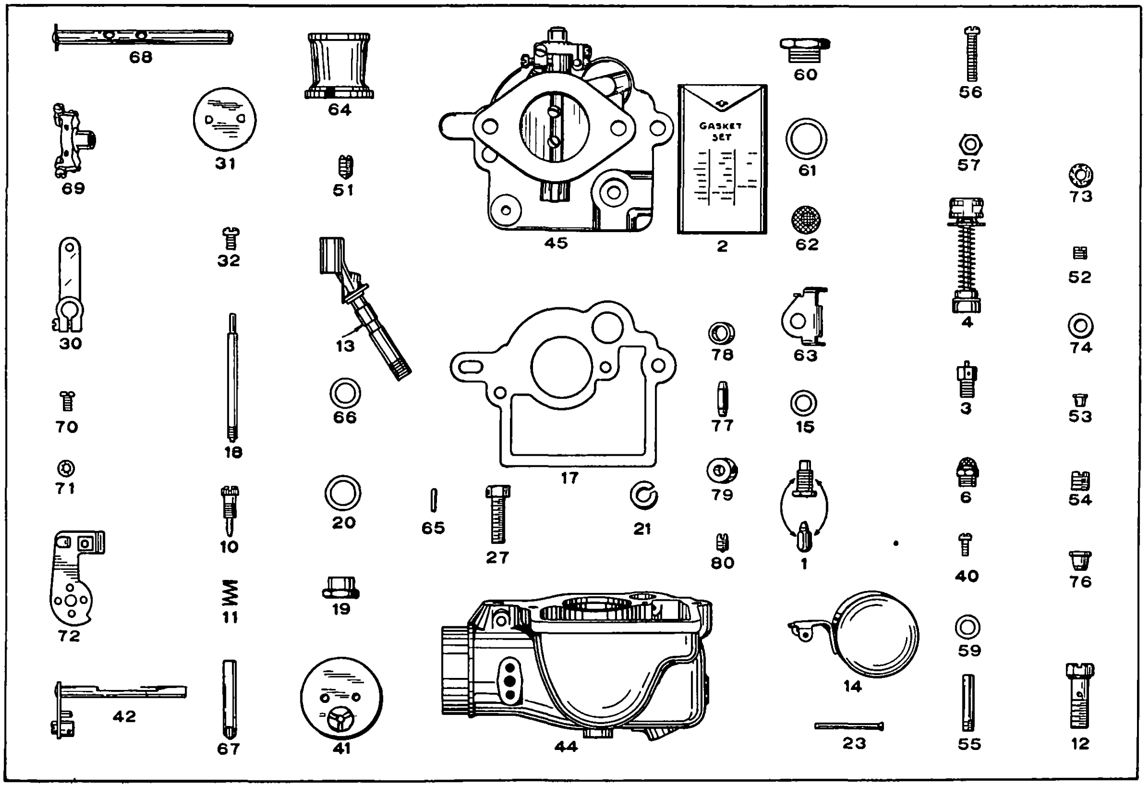
Fuel Level—

The gasoline level in the float chamber is properly set at the factory and should not be adjusted unless carburetor has been handled roughly or level has been changed for some other cause For measuring fuel level it is advisable to use an open vessel with a leveled top, large enough to support the throttle valve body and to accommodate the float assembly Place main body gasket between body and vessel before checking Connect gas line to inlet in throttle body and allow gas to feed into measuring vessel at the fuel pump pressure until flow is stopped by the closing of the float needle valve Fuel level should measure (see parts page) below top surface of vessel (without gasket). Use standard depth gauge for measuring fuel level. To correct fuel level hold throttle body in inverted position and set float to measure (see parts page) from top of float (14) to gasket surface of throttle body, which will give approximate fuel level.

MOTOR TUNE-UP DATA

Due to the number of carburetor specifications for different engines listed herein it is impossible to give standard motor tune-up information.

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Key No	Part Name	
1	Float Needle Valve and Seat	(NOT VAR)
2	Complete Set of Gaskets	
3	By Pass Jet	(VAR)
4	Pump Piston Link and Spring	
6	Pump Inlet Check Valve	
10	Idle Needle Valve	
11	Spring—Idle Needle Valve	
12	Metering Jet	(VAR)
13	Main Discharge Jet	(VAR)
14	Float	
15	Gasket—Float Needle Valve Seat	
17	Gasket—Main Body	
18	Idle Tube	
19	Nut—Main Discharge Jet	
20	Gasket—Main Discharge Jet Nut	
21	Lockwasher—Main Body Attach	
23	Fulcrum Pin—Float	
27	Screw—Main Body Attach	
30	Throttle Lever	
	Screw—Throttle Lever Clamp	
31	Throttle Valve	
32	Screw—Throttle Valve Attach	
40	Screw—Choke Valve Attach	
41	Choke Valve	
42	Choke Stem	
44	Main Body	
45	Throttle Body (complete with idle holes throttle valve and stem)	(VAR)
51	Set Screw—Vent Tube	
52	Plug—Vacuum Suction Channel	
53	Plug—Pump Channel	
54	Plug—Idle Discharge Channel	
55	High Speed Bleeder	(VAR)

Key No	Part Name	
56	Screw—Pump Adj	
57	Nut—Pump Adj Screw	
59	Gasket—Metering Jet	
60	Plug—Strainer	
61	Gasket—Strainer Plug	
62	Strainer—Gas	
63	Hanger—Float	
64	Venturi	(VAR)
65	Pin—Main Discharge Jet Locating	
66	Gasket—Main Discharge Jet	
67	Vent Tube	
68	Throttle Stem	
69	Throttle Stop	
	Screw—Idle Adj	
	Spring—Idle Adj Screw	
70	Screw—Choke Tube Holder Attach	
71	Lockwasher—Choke Tube Holder Attach Screw	
72	Choke Tube Holder	
	Screw—Choke Tube Clamp	
	Nut—Choke Tube Clamp Screw	
73	Washer—Idle Tube Cork	
74	Washer—Idle Tube	
*75	Plug—Gov Conn	
76	Plug—Idle Drilling Hole	
77	Pin—Choke Stem	
78	Bushing—Choke Lever Spacer	
79	Collar—Choke Stem	
80	Set Screw—Choke Stem Collar	
*81	Screw—Gov Adj	
*82	Spring—Gov Adj Screw	

*Parts Not Illustrated

BENDIX PRODUCTS DIVISION

SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

STROMBERG CARBURETOR

Key No.	A-17802 G.M.T.C. 1934 Model T-73 Code No. 23-17A Symbol No. 052904 3-7/16" x 4-5/8"—6 cyl.—Own 257	A-18512 Yellow Coach Model 257 Code No. 23-49A Symbol No. 069811	A-18522 Yellow Coach Model 239 Code No. 23-54A Symbol No. 069827	A-18532 Yellow Coach Model 286 Code No. 23-55A Symbol No. 069828 3-5/8" x 4-5/8"—6 cyl.	A-18992 Yellow Coach Model 278 Code No. 23-68 Sym.No.2071293 3-5/8" x 4-1/2"—6 cyl.	A-19012 Yellow Coach Mod 1 308 Code No. 23-69 SymbolNo.2071294 3-13/16" x 4-1/2"
1	P-17282	P-17282	P-17282	P-17282	P-17282	P-17282
2	J-4222-G	J-4222-G	J-4222-G	J-4222-G	J-4222-G	J-4222-G
3	P-16786—.036"	P-16786—.036"	P-16786—.036"	P-16786—.032"	P-16786—.032"	P-16786—.032"
4	P-23133	P-23133	P-23133	P-23133	P-23133	P-23133
6	P-23135	P-23135	P-23135	P-23135	P-23135	P-23135
10	P-15396	P-15396	P-15396	P-15396	P-15396	P-15396
11	P-12530	P-12530	P-12530	P-12530	P-12530	P-12530
12	P-15384—.054"	P-15384—.054"	P-15384—.054"	P-15384—.054"	P-15384—.054"	P-15384—.055"
13	P-16773—**No. 32**	P-16773—**No. 32**	P-16773—**No. 32**	P-16773—**No. 32**	P-16773—**No. 32**	P-16773—**No. 32**
14	P-16767	P-16767	P-16767	P-16767	P-16767	P-16767
15	P-11572	P-11572	P-11572	P-11572	P-11572	P-11572
17	P-16756	P-16756	P-16756	P-16756	P-16756	P-16756
18	P-16754—**No. 68**	P-16754—**No. 68**	P-16754—**No. 68**	P-16754—**No. 68**	P-16754—**No. 68**	P-16754—**No. 68**
19	P-16762	P-16762	P-16762	P-16762	P-16762	P-16762
20	P-5636	P-5636	P-5636	P-5636	P 5636	P-5636
21	P-6592	P-6592	P-6592	P-6592	P-6592	P-6592
22		P-18772	P-18772	P-18772	P-18772	P-18772
23	P-16760	P-16760	P-16760	P-16760	P-16760	P-16760
27	P-16765	P-16765	P-16765	P-16765	P-16765	P-16765
30	P-19909	P-22881	P-22881	P-22881	P-22881	P-22881
	P-3199	P-3199	P-3199	P-3199	P-3199	P-3199
31	P-16755	P-16755	P-16755	P-16755	P-16755	P-16755
32	P-16716	P-16716	P-16716	P-16716	P-16716	P-16716
40	P-16717	P-16717	P-16717	P-16717	P-16717	P-16717
41	P-19906	P-22929	P-22929	P-22929	P-22929	P-22929
42	P-19907	P-22927	P-22927	P-22927	P-23890	P-23890
44	P-19910	P-22884	P-22884	P-22884	P-22884	P-22884
45	382323	382324	382324	382324	382325	382325
	Nos. 58-66	**Nos. 58-66**	**Nos. 58-66**	**Nos. 58-66**	**Nos. 58-62**	**Nos. 58-62**
		No. 56 Spark	**No. 50 Spark**	**No. 50 Spark**	**No. 50 Spark**	**No. 50 Spark**
51	P-14745	P-14745	P-14745	P-14745	P-14745	P-14745
52	P-7098					
53	P-15458	P-15458	P-15458	P-15458	P-15458	P-15458
54	P-12780	P-12780	P-12780	P-12780	P-12780	P-12780
55	P-16776—**No. 60**	P-16776—**No. 60**	P-16776—**No. 60**	P-16776—**No. 60**	P-16776—**No. 60**	P-16776—**No. 60**
56	P-5546	P-5546	P-5546	P-5546	P-5546	P-5546
57	P-14618	P-14618	P-14618	P-14618	P-14618	P-14618
59	P-6855	P-6855	P-6855	P-6855	P-6855	P-6855
60	P-17140	P-17140	P-17140	P-17140	P-17140	P-17140
61	P-22851	P-22851	P-22851	P-22851	P-22851	P-22851
62	P-12958	P-12958	P-12958	P-12958	P-12958	P-12958
63	P-16761	P-16761	P-16761	P-16761	P-16761	P-16761
64	P-16753—**1-1/8"**	P-16753—**1-1/8"**	P-16753—**1-1/16"**	P-16753—**1-1/8"**	P-16753—**1-1/8"**	P-16753—**1-1/8"**
65	P-16850	P-16850	P-16850	P-16850	P-16850	P-16850
66	P-21372	P-21372	P-21372	P-21372	P-21372	P-21372
67	P-16757	P-16757	P-16757	P-16757	P-16757	P-16757
68	P-16793	P-16793	P-16793	P-16793	P-16793	P-16793
69	P-7041	P-22948	P-22948	P-22948	P-7041	P-7041
	P-12375	P-18552	P-18552	P-18552	P-12375	P-12375
		P-15831	P-15831	P-15831		
70		P-14646	P-14646	P-14646	P-14646	P-14646
71		P-15346	P-15346	P-15346	P-15346	P-15346
72		P-12823	P-12823	P-12823	P-11969	P-11969
		P-12868	P-12868	P-12868	P-12868	P-12868
		P-8806	P-8806	P-8806	P-8806	P-8806
73	P-14160	P-14160	P-14160	P-14160	P-14160	P-14160
74	P-22713	P-22713	P-22713	P-22713	P-22713	P-22713
*75	P-3292	P-3292	P-3292	P-3292	P-3292	P-3292
76	P-20454	P-20454	P-20454	P-20454	P-20454	P-20454
77		P-3881	P-3881	P-3881	P-3881	P-3881
78		P-13828	P-13828	P-13828	P-13828	P-13828
79	P-17081	P-17081	P-17081	P-17081	P-17081	P-17081
80	P-16161	P-16161	P-16161	P-16161	P-16161	P-16161
*81		P-22951	P-22951	P-22951		
*82		P-22950	P-22950	P-22950		
	SETTINGS Fuel Level—9/16". Fuel Pressure—2 lbs. Throttle Valve Location—Lower edge of throttle valve to come Flush + — .004" from No. 58 idle hole.	SETTINGS Fuel Level—9/16". Fuel Pressure—2 lbs. Throttle Valve Location—Lower edge of throttle valve to come Flush + — .004" from No. 58 idle hole. Spark Hole—No. 56 Spark Hole to be Flush with lower edge of throt. valve.	SETTINGS Fuel Level—9/16". Fuel Pressure—2 lbs. Throttle Valve Location—Lower edge of throttle valve to come Flush + — .004" from No. 58 idle hole. Spark Hole—No. 56 Spark Hole to be Flush with lower edge of throt. valve.	SETTINGS Fuel Level—9/16". Fuel Pressure—2 lbs. Throttle Valve Location—Lower edge of throttle valve to come Flush + — .004" from No. 58 idle hole. Spark Hole—No. 56 Spark Hole to be Flush with lower edge of throt. valve.	SETTINGS Fuel Level—9/16". Fuel Pressure—2 lbs Throttle Valve Location—Lower edge of throttle valve to come Flush + — .004" from No. 58 idle hole. Spark Hole—No. 56 Spark Hole to be Flush with lower edge of throt. valve.	SETTINGS Fuel Level—9/16". Fuel Pressure—2 lbs. Throttle Valve Location—Lower edge of throttle valve to come Flush + — .004" from No. 58 idle hole. Spark Hole—No. 56 Spark Hole to be Flush with lower edge of throt. valve.

*Parts Not Illustrated.

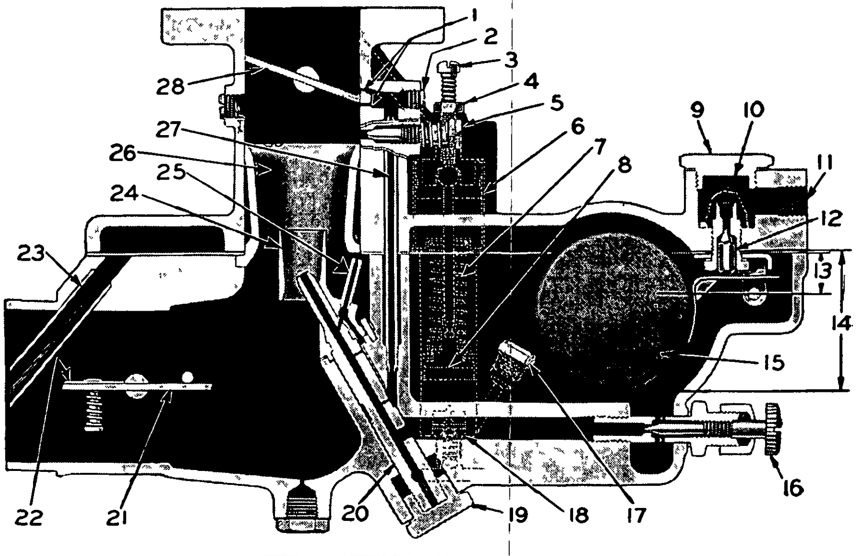
STROMBERG SF-3 CARBURETOR

FOR STROMBERG NUMBER, CODE NUMBER, MANUFACTURER'S SYMBOL NUMBER,
MODEL, BORE AND STROKE INFORMATION SEE PARTS PAGE

SIZE: 1-1/2" UPDRAFT S.A.E. 2-15/16" FLANGE CENTER

PARTS ILLUSTRATED

1. Idle Discharge Holes
2. Idle Discharge Plug
3. Pump Adjustment Screw
4. Pump Adjustment Lock Screw
5. Idle Needle Valve
6. Vacuum Piston
7. Accelerating Pump Spring
8. Accelerating Pump Piston
9. Strainer Plug
10. Strainer
11. Gasoline Inlet
12. Float Needle Valve and Seat
13. Fuel Level (see instructions)
14. Float Setting (see instructions)
15. Float
16. Adjustable Metering Jet
17. Check Valve
18. Combination Power and Pump By-Pass Jet
19. Main Discharge Jet Nut
20. Main Discharge Jet
21. Choke Valve
22. Choke Poppet Valve
23. Vent Tube
24. Small Venturi
25. High Speed Bleed
26. Large Venturi
27. Idle Tube
28. Throttle Valve



Main Metering System—
The main metering system controls the flow of the fuel during the intermediate speed of the engine. Fuel enters the carburetor through the gasoline inlet (11) into the float chamber. From here the gasoline passes through the metering jet (16) which controls the supply of fuel for the main metering system, to the main discharge jet (20). The main discharge jet delivers the fuel to the small venturi (24) (auxiliary venturi) where it is mixed with air and flows into the carburetor barrel. The amount of air used in the mixture is controlled by the large venturi (26). (When replacing main discharge jet use new P-21372 gasket.)

Power System—
For maximum power or higher speeds a richer mixture is needed. This is accomplished by the power system. During the intermediate speed of the engine sufficient fuel is furnished by the main metering jet. However for hard pulls and wide open throttle this supply is not equivalent to the engine demands; therefore another valve comes into operation to supply this extra amount of gasoline needed. While the engine runs at a moderate speed a certain amount of manifold vacuum is created. This vacuum holds vacuum piston (6) in an up position but when the throttle is opened above normal to compensate for the extra power that may be needed from the engine the vacuum falls off accordingly and the vacuum piston drops until the pump piston (8), which is directly connected to the vacuum piston, comes in contact with and opens the valve in the by-pass jet (18). The opening of this valve allows an additional amount of gasoline to enter the main discharge jet and enrichens the mixture. This is known as the Power System.

Accelerating System—
As explained above, the vacuum piston of the pump is held in an up position by the manifold vacuum created by the engine. On sudden opening of the throttle the vacuum drops off very rapidly and the vacuum piston (6) is released. When this occurs accelerating pump spring (7) forces pump piston (8) down which in turn forces a discharge of gasoline to be driven through the by-pass jet (18) and out the main discharge jet. This sudden surplus of fuel enrichens the mixture for the moment and furnishes the engine the extra power needed for fast acceleration. The amount of discharge can be controlled by the adjustment screw (3). Turn screw IN to lessen, OUT to make greater.

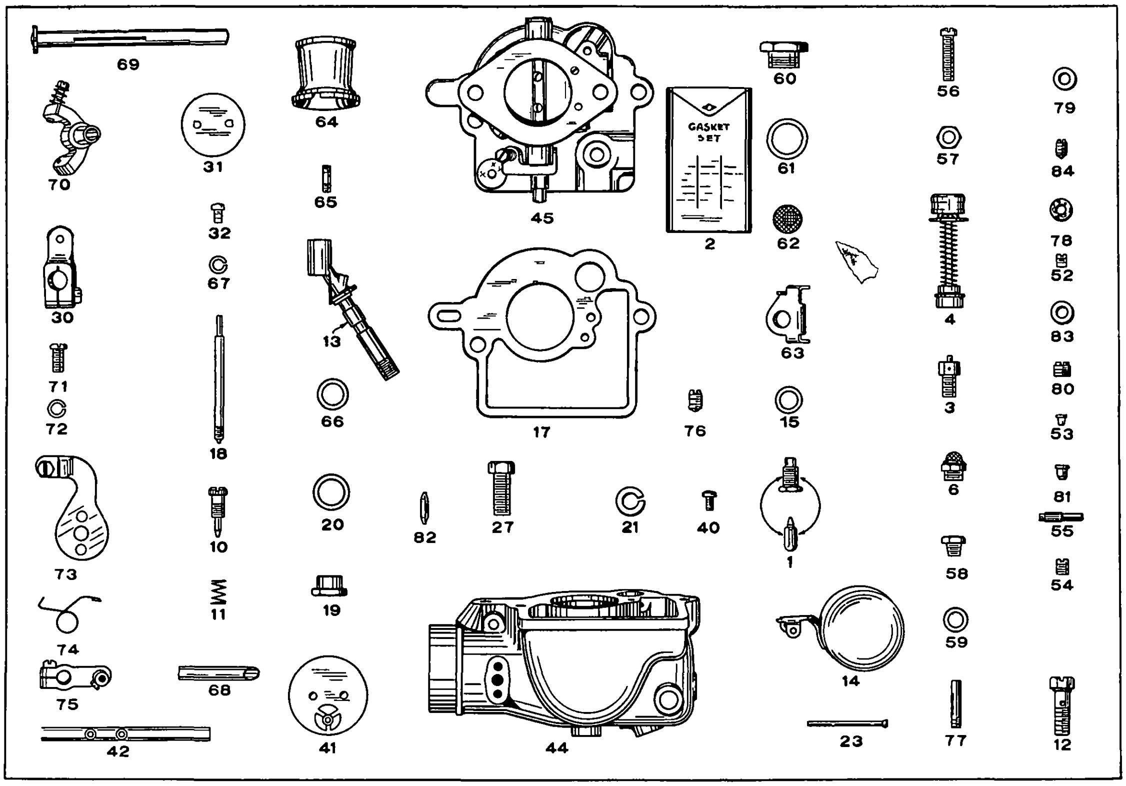
Idle System—
When the throttle valve is closed gasoline is delivered to the engine by means of the idle system of the carburetor. Gasoline is taken up through the idle tube (27) which meters the quantity of fuel for the idle system. It is mixed with air, the amount of which is governed by the idle needle valve (5) and reaches the engine by means of the idle holes (1) and up through the barrel of the carburetor. To make the mixture richer turn idle needle valve (5) **IN**, to make mixture leaner screw **OUT.**

Fuel Level—
The gasoline level in the float chamber is properly set at the factory and should not be adjusted unless carburetor has been handled roughly or level has been changed for some other cause. For measuring fuel level it is advisable to use an open vessel with a leveled top, large enough to support the throttle valve body and to accommodate the float assembly. Place main body gasket between body and vessel before checking. Connect gas line to inlet in throttle body and allow gas to feed into measuring vessel at the fuel pump pressure until flow is stopped by the closing of the float needle valve. Fuel level should measure (see parts page) below top surface of vessel (without gasket). Use standard depth gauge for measuring fuel level. To correct fuel level hold throttle body in inverted position and set float to measure (see parts page) from top of float (14) to gasket surface of throttle body, which will give approximate fuel level.

MOTOR TUNE-UP DATA

Due to the number of carburetor specifications for different engines listed herein it is impossible to give standard motor tune-up information.

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Key No.	Part Name	
1	Float Needle Valve and Seat	(NOT VAR.)
2	Complete Set of Gaskets	
3	By Pass Jet	(VAR.)
4	Pump Piston	
6	Pump Inlet Check Valve	
10	Idle Needle Valve	
11	Spring—Idle Needle Valve	
12	Metering Jet	(VAR.)
13	Main Discharge Jet	(VAR.)
14	Float Assembly	
17	Gasket—Main Body	
18	Idle Tube	
19	Nut—Main Discharge Jet	
20	Gasket—Main Discharge Jet Nut	
21	Lockwasher—Main Body Attach Screw	
23	Pin—Float Fulcrum	
27	Screw—Main Body Attach	
30	Throttle Lever	
	Clamp Screw	
31	Throttle Valve	
32	Screw—Throttle and Choke Valve Attach	
41	Choke Valve	
42	Choke Stem	
44	Main Body	
45	Throttle Body (complete with idle holes throttle stem and valve)	(VAR.)
52	Plug—Vacuum Channel	
53	Plug—Pump Channel	
54	Plug—Idle Discharge Holes	
55	Pin—Choke Valve Stop	
56	Screw—Vacuum Piston Adj	
57	Nut—Vacuum Piston Adj Screw	
58	Plug—Gas Inlet	

Key No	Part Name	
59	Gasket—Metering Jet	
60	Plug—Gasoline Strainer	
61	Gasket—Gasoline Strainer Plug	
62	Strainer—Gasoline	
63	Hanger—Float	
64	Venturi	(VAR.)
65	Pin—Main Jet Locating	
66	Gasket—Main Discharge Jet	
67	Lockwasher—Valve Attach Screw	
68	Vent Tube	
69	Throttle Stem	
70	Throttle Stop	
	Idle Adj Screw	
	Spring—Idle Adj Screw	
71	Screw—Tube Holder Attach	
72	Lockwasher—Tube Holder Attach Screw	
73	Tube Holder	
	Screw—Tube	
74	Spring—Choke Valve Return	
75	Choke Lever	
	Screw—Wire Conn	
	Screw—Clamp	
76	Set Screw—Vent Tube	
77	High Speed Bleeder	(VAR.)
78	Gasket—Idle Tube—Cork	
79	Washer—Idle Tube	
80	Plug—Governor Conn	
81	Plug—Idle Discharge Drilling Hole	
82	Pin—Choke Stem Separator	
83	Collar—Choke Stem	
84	Set Screw—Choke Stem Collar	

BENDIX PRODUCTS DIVISION
SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

STROMBERG CARBURETOR

Key No.	**A-17643** **G.M.T.C.** **1934 Model T-75** **Code No. 23-7A** **Sym. No. 052905** **3-3/4" x 5"—** **6 cyl.** **Own 331**	**A-17653** **G.M.T.C.** **1934 Model T-78** **Code No. 23-8A** **Sym. No. 052906** **4-1/8" x 5"—** **6 cyl.** **Own 400**	**A-18523** **Yellow Coach** **1937 Model 400** **Code No. 23-52A** **Sym. No. 069830** **4-1/8" x 5"—** **6 cyl.**	**A-18513** **Yellow Coach** **1937 Model 331** **Code No. 23-53A** **Sym. No. 069829** **3-3/4" x 5"—** **6 cyl.**	**A-18993** **Yellow Coach** **1937 Model 361** **Code No. 23-70** **Sym. No. 2071295** **4-1/8" x 4-1/2"—** **6 cyl.**	**A-19013** **Yellow Coach** **1937 Model 426** **Code No. 23-71** **Sym. No. 2071296** **4-1/4" x 5"—** **6 cyl.**	**380001** **Yellow Coach** **Code No. 23-91** **Symbol No.** **2103625**
1	P-17282	P-17282	P-17282	P-17282	P-17282	P-17282	P-17282
2	J-4221-G	J-4221-G	J-4221-G	J-4221-G	J-4221-G	J-4221-G	J-4221-G
3	P-16786—.032"	P-16786—.036"	P-16786—.036"	P-16786—.032"	P-16786—.044"	P-16786—.036"	P-16786—.036"
4	P-23129	P-23129	P-23129	P-23129	P-23129	P-23129	P-23129
6	P-23135	P-23135	P-23135	P-23135	P-23135	P-23135	P-23135
10	P-15396	P-15396	P-15396	P-15396	P-15396	P-15396	P-15396
11	P-12530	P-12530	P-12530	P-12530	P-12530	P-12530	P-12530
12	P-15384—.062"	P-15384—.064"	P-15384—.064"	P-15384—.062"	P-15384—.059"	P-15384—.064"	P-15384—.064"
13	P-16863	P-16863	P-16863	P-16863	P-16863	P-16863	P-16863
	No. 28	**No. 28**	**No. 28**	**No. 28**	**No. 28**	**No. 28**	**No. 28**
14	P-16851	P-16851	P-16851	P-16851	P-16851	P-16851	P-16851
15	P-11572	P-11572	P-11572	P-11572	P-11572	P-11572	P-11572
17	P-16844	P-16844	P-16844	P-16844	P-16844	P-16844	P-16844
18	P-16847	P-16847	P-16847	P-16847	P-16847	P-16847	P-16847
	No. 68	**No. 68**	**No. 68**	**No. 68**	**No. 68**	**No. 68**	**No. 68**
19	P-16762	P-16762	P-16762	P-16762	P-16762	P-16762	P-16762
20	P-5636	P-5636	P-5636	P-5636	P-5636	P-5636	P-5636
21	P-5364	P-5364	P-5364	P-5364	P-5364	P-5364	P-5364
23	P-16760	P-16760	P-16760	P-16760	P-16760	P-16760	P-16760
27	P-16849	P-16849	P-16849	P-16849	P-16849	P-16849	P-16849
30	P-19902	P-19902	P-22914	P-22914	P-22914	P-22914	P-22914
	P-15817	P-15817	P-15817	P-15817	P-15817	P-15817	P-15817
31	P-12251	P-12251	P-12251	P-12251	P-12251	P-12251	P-12251
32	P-15259	P-15259	P-15259	P-15259	P-15259	P-15259	P-15259
41	P-19898	P-19898	P-21758	P-21758	P-21758	P-21758	P-21758
42	P-19900	P-19900	P-21756	P-21756	P-21756	P-21756	P-21756
44	P-19903	P-19903	P-22922	P-22922	P-19903	P-19903	P-19903
45	382326	382327	382327	382327	382327	P-24891	P-24891
	Nos. 58-66	**Nos. 58-66**	**Nos. 58-66**	**Nos. 58-66**	**Nos. 58-66**	**Nos. 58-62**	**Nos. 58-62**
52	P-7098	P-7098	P-7098	P-7098	P-7098	P-7098	P-7098
53	P-15458	P-15458	P-15458	P-15458	P-15458	P-15458	P-15458
54	P-12780	P-12780	P-12780	P-12780	P-12780	P-12780	P-12780
55	P-16764	P-16764	P-16764	P-16764	P-16764	P-16764	P-16764
56	P-19911	P-19911	P-19911	P-19911	P-19911	P-19911	P-19911
57	P-14618	P-14618	P-14618	P-14618	P-14618	P-14618	P-14618
58		P-26	P-26	P-26	P-26	P-26	P-26
59	P-6855	P-6855	P-6855	P-6855	P-6855	P-6855	P-6855
60	P-17140	P-17140	P-17140	P-17140	P-17140	P-17140	P-17140
61	P-20235	P-20235	P-20235	P-20235	P-20235	P-20235	P-20235
62	P-12958	P-12958	P-12958	P-12958	P-12958	P-12958	P-12958
63	P-16761	P-16761	P-16761	P-16761	P-16761	P-16761	P-16761
64	P-16845	P-16845	P-16845	P-16845	P-16845	P-16845	P-16845
	1-5/16"	**1-5/16"**	**1-5/16"**	**1-5/16"**	**1-5/16"**	**1-5/16"**	**1-5/16"**
65	P-16850	P-16850	P-16850	P-16850	P-16850	P-16850	P-16850
66	P-21372	P-21372	P-21372	P-21372	P-21372	P-21372	P-21372
67	P-1693	P-1693	P-1693	P-1693	P-1693	P-1693	P-1693
68	P-16848	P-16848	P-16848	P-16848	P-16848	P-16848	P-16848
69	P-16866	P-16866	P-16866	P-16866	P-16866	P-16866	P-16866
70	P-18449	P-18449	P-18449	P-18449	P-16795	P-16795	P-16795
	P-18552	P-18552	P-18552	P-18552	P-18552	P-18552	P-18552
	P-15831	P-15831	P-15831	P-15831	P-15831	P-15831	P-15831
71			P-16766	P-16766	P-16766	P-16766	P-16766
72			P-3157	P-3157	P-3157	P-3157	P-3157
73			P-16805	P-16805	P-17461	P-17461	P-16805
			P-16807	P-16807	P-16807	P-16807	P-16807
74			P-16763	P-16763	P-16763	P-16763	P-16763
75			P-22920	P-22920	P-22920	P-22920	P-22920
			P-15297	P-15297	P-15297	P-15297	P-15297
			P-3199	P-3199	P-3199	P-3199	P-3199
76	P-14745	P-14745	P-14745	P-14745	P-14745	P-14745	P-14745
77	P-14334	P-14334	P-14334	P-14334	P-14334	P-14334	P-14334
	No. 65	**No. 65**	**No. 65**	**No. 65**	**No. 65**	**No. 65**	**No. 65**
78	P-14160	P-14160	P-14160	P-14160	P-14160	P-14160	P-14160
79	P-22713	P-22713	P-22713	P-22713	P-22713	P-22713	P-22713
80	P-3292	P-3292	P-3292	P-3292	P-3292	P-3292	P-3292
81	P-15459	P-15459	P-15459	P-15459	P-15459	P-15459	P-15459
82			P-3881	P-3881	P-3881	P-3881	P-3881
83	P-19901	P-19901	P-19901	P-19901	P-19901	P-19901	P-19901
84	P-16161	P-16161	P-16161	P-16161	P-16161	P-16161	P-16161
	SETTINGS Fuel Level—7/8". Fuel Pressure—2 lbs. Throttle Valve Location—Lower lip of throttle valve to be **Flush** + — .004" from No. 58 idle hole.	SETTINGS Fuel Level—7/8". Fuel Pressure—2 lbs. Throttle Valve Location—Lower lip of throttle valve to be **Flush** + — .004" from No. 58 idle hole.	SETTINGS Fuel Level—7/8". Fuel Pressure—2 lbs. Throttle Valve Location—Lower lip of throttle valve to be **Flush** + — .004" from No. 58 idle hole.	SETTINGS Fuel Level—7/8". Fuel Pressure—2 lbs. Throttle Valve Location—Lower lip of throttle valve to be **Flush** + — .004" from No. 58 idle hole.	SETTINGS Fuel Level—7/8". Fuel Pressure—2 lbs. Throttle Valve Location—Lower lip of throttle valve to be **Flush** + — .004" from No. 58 idle hole.	SETTINGS Fuel Level—7/8". Fuel Pressure—2 lbs. Throttle Valve Location—Lower lip of throttle valve to be **Flush** + — .004" from No. 58 idle hole.	SETTINGS Fuel Level—7/8". Fuel Pressure—2 lbs. Throttle Valve Location—Lower lip of throttle valve to be **Flush** + — .004" from No. 58 idle hole.

STROMBERG SF-4 CARBURETOR

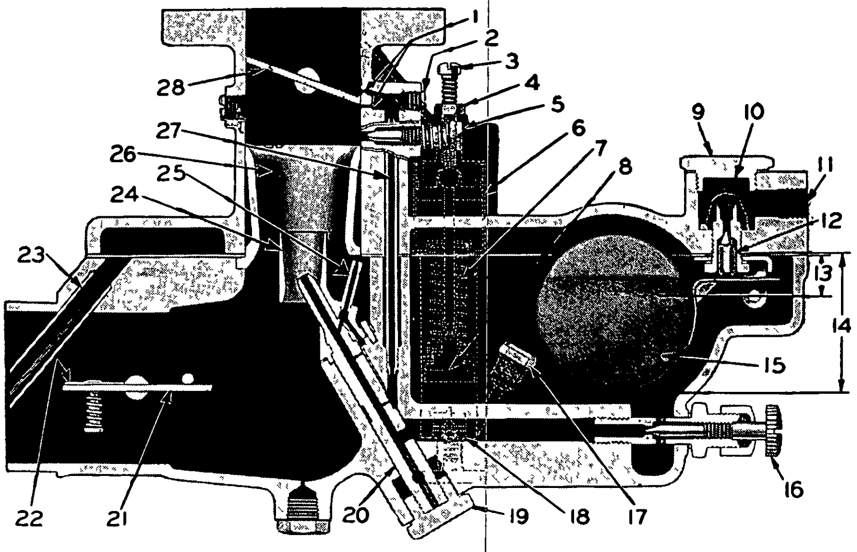
FOR STROMBERG NUMBER, CODE NUMBER, MANUFACTURER'S SYMBOL NUMBER, MODELS, BORE AND STROKE INFORMATION SEE PARTS PAGE

SIZE: 1-3/4" UPDRAFT S.A.E. 3-5/16" FLANGE CENTERS

G.M.T.C.
and
Yellow Coach

PARTS ILLUSTRATED

1. Idle Discharge Holes
2. Idle Discharge Plug
3. Pump Adjustment Screw
4. Pump Adjustment Lock Screw
5. Idle Needle Valve
6. Vacuum Piston
7. Accelerating Pump Spring
8. Accelerating Pump Piston
9. Strainer Plug
10. Strainer
11. Gasoline Inlet
12. Float Needle Valve and Seat
13. Fuel Level (see instructions)
14. Float Setting (see instructions)
15. Float
16. Adjustable Metering Jet
17. Check Valve
18. Combination Power and Pump By-Pass Jet
19. Main Discharge Jet Nut
20. Main Discharge Jet
21. Choke Valve
22. Choke Poppet Valve
23. Vent Tube
24. Small Venturi
25. High Speed Bleed
26. Large Venturi
27. Idle Tube
28. Throttle Valve



Main Metering System—

The main metering system controls the flow of the fuel during the intermediate speed of the engine. Fuel enters the carburetor through the gasoline inlet (11) into the float chamber. From here the gasoline passes through the metering jet (16) which controls the supply of fuel for the main metering system, to the main discharge jet (20). The main discharge jet delivers the fuel to the small venturi (24) (auxiliary venturi) where it is mixed with air and flows into the carburetor barrel. The amount of air used in the mixture is controlled by the large venturi (26). (When replacing main discharge jet use new P-21372 gasket.)

Power System—

For maximum power or higher speeds a richer mixture is needed. This is accomplished by the power system. During the intermediate speed of the engine sufficient fuel is furnished by the main metering jet. However for hard pulls and wide open throttle this supply is not equivalent to the engine demands; therefore another valve comes into operation to supply this extra amount of gasoline needed. While the engine runs at a moderate speed a certain amount of manifold vacuum is created. This vacuum holds vacuum piston (6) in an up position but when the throttle is opened above normal to compensate for the extra power that may be needed from the engine the vacuum falls off accordingly and the vacuum piston drops until the pump piston (8), which is directly connected to the vacuum piston, comes in contact with and opens the valve in the by-pass jet (18). The opening of this valve allows an additional amount of gasoline to enter the main discharge jet and enrichens the mixture. This is known as the Power System.

Accelerating System—

As explained above, the vacuum piston of the pump is held in an up position by the manifold vacuum created by the engine. On sudden opening of the throttle the vacuum drops off very rapidly and the vacuum piston (6) is released. When this occurs accelerating pump spring (7) forces pump piston (8) down which in turn forces a discharge of gasoline to be driven through the by-pass jet (18) and out the main discharge jet. This sudden surplus of fuel enrichens the mixture for the moment and furnishes the engine the extra power needed for fast acceleration. The amount of discharge can be controlled by the adjustment screw (3). Turn screw IN to lessen, OUT to make greater.

Idle System—

When the throttle valve is closed gasoline is delivered to the engine by means of the idle system of the carburetor. Gasoline is taken up through the idle tube (27) which meters the quantity of fuel for the idle system. It is mixed with air, the amount of which is governed by the idle needle valve (5) and reaches the engine by means of the idle holes (1) and up through the barrel of the carburetor. To make the mixture richer turn idle needle valve (5) **IN**, to make mixture leaner screw **OUT**.

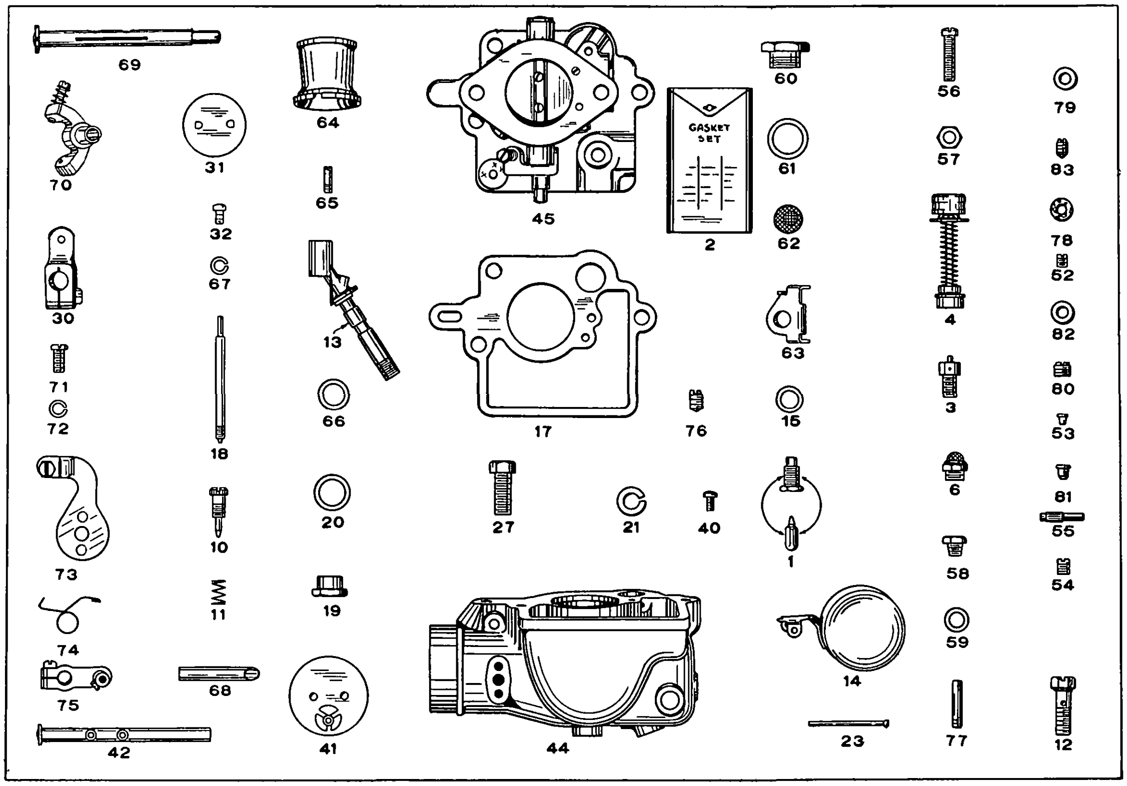
Fuel Level—

The gasoline level in the float chamber is properly set at the factory and should not be adjusted unless carburetor has been handled roughly or level has been changed for some other cause. For measuring fuel level it is advisable to use an open vessel with a leveled top, large enough to support the throttle valve body and to accommodate the float assembly. Place main body gasket between body and vessel before checking. Connect gas line to inlet in throttle body and allow gas to feed into measuring vessel at the fuel pump pressure until flow is stopped by the closing of the float needle valve. Fuel level should measure (see parts page) below top surface of vessel (without gasket). Use standard depth gauge for measuring fuel level. To correct fuel level hold throttle body in inverted position and set float to measure (see parts page) from top of float (14) to gasket surface of throttle body, which will give approximate fuel level.

MOTOR TUNE-UP DATA

Due to the number of Carburetor Specifications for various engines listed herein it is impossible to give Standard Motor Tune-up Data.

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Key No.	Part Name	
1	Float Needle Valve and Seat	(NOT VAR)
2	Complete Set of Gaskets	
3	Pump By Pass Jet	(VAR)
4	Pump Piston Assembly	
6	Pump Inlet Check Valve	
10	Idle Needle Valve	
11	Spring—Idle Needle Valve	
12	Metering Jet	(VAR)
13	Main Discharge Jet	(VAR.)
14	Float	
15	Gasket—Float Needle Valve Seat	
17	Gasket—Main Body	
18	Idle Tube	
19	Nut—Main Discharge Jet	
20	Gasket—Main Discharge Jet Nut	
21	Lockwasher—Main Body Attach Screw	
22	Lead Ball	
23	Fulcrum Pin—Float	
27	Screw—Main Body Attach	
30	Throttle Lever	
	Screw—Throttle Lever Clamp	
31	Throttle Valve	
32	Screw—Throttle Valve Attach	
40	Screw—Choke Valve Attach	
41	Choke Valve	
42	Choke Stem	
44	Main Body	
45	Throttle Body (Compt with idle holes thro val & stem)	(VAR)
52	Plug—Vacuum Suction Hole	
53	Plug—Pump Channel	
54	Plug—Idle Discharge Hole	
55	Pin—Choke Valve Stop	
56	Screw—Pump Adj	
57	Nut—Pump Adj Screw	
58	Plug—Gas Inlet	
59	Gasket—Metering Jet	
60	Plug—Gasoline Strainer	
61	Gasket—Gasoline Strainer Plug	
62	Strainer—Gasoline	
63	Hanger—Float	
64	Venturi	(VAR.)
65	Pin—Main Jet Locating	
66	Gasket—Main Discharge Jet	
67	Lockwasher—Valve Attach Screw	
68	Vent Tube	
69	Throttle Stem	
70	Throttle Stop	
	Screw—Idle Adj	
	Spring—Idle Adj Screw	
71	Screw—Tube Holder Attach	
72	Lockwasher—Tube Holder Attach Screw	
73	Tube Holder	
	Screw—Tube Clamp	
74	Spring—Choke Valve Return	
75	Choke Lever	
	Screw—Wire Conn	
	Screw—Clamp Screw	
76	Set Screw—Vent Tube	
77	High Speed Bleeder	(VAR)
78	Gasket—Idle Tube—Cork	
79	Washer—Idle Tube	
80	Plug—Governor Conn	
81	Plug—Idle Discharge Drill Hole	
82	Collar—Choke Stem	
83	Set Screw—Choke Stem Collar	

BENDIX PRODUCTS DIVISION
SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

KEY NO.	A-17624 **G.M.T.C.—1934** **MODEL T-74 C.O.E.** Sym. No. 053027 Code No. 23-9A 4-3/8″ x 5″—6 cyl. Own 450	A-17644 **G.M.T.C.** **1934 MODEL 1450** Sym. No. 053299 Code No. 23-11A 4-3/8″ x 5″—6 cyl.	A-18514 **YELLOW COACH** **1937 MODEL 450** Sym. No. 069831 Code No. 23-51A 4-3/8″ x 5″—6 cyl. Own 450	A-18024 **YELLOW COACH** **1939 MODEL F-79** Sym. No. 2103185 Code No. 23-90	A-18994 **YELLOW COACH** **1939 MODEL 451** Sym. No. 2090417 Code No. 23-73	380005 **YELLOW COACH** Sym. No. 2103626 Code No. 23-95
1	P-18811	P-18811	P-18811	P-18811	P-18811	P-18811
2	J-4270-G	J-4270-G	J-4270-G	J-4270-G	J-4270-G	J-4270-G
3	P-16786—**.050″**	P-16786—**.056″**	P-16786—**.056″**	P-16786—**.066″**	P-16786—**.056″**	P-16786—**.056″**
4	P-23126	P-23126	P-23126	P-23126	P-23126	P-23126
6	P-23135	P-23135	P-23135	P-23135	P-23135	P-23135
10	P-15396	P-15396	P-15396	P-15396	P-15396	P-15396
11	P-12530	P-12530	P-12530	P-12530	P-12530	P-12530
12	P-15384—**.070″**	P-15384—**.067″**	P-15384—**.067″**	P-15384—**.070″**	P-15384—**.072″**	P-15384—**.072″**
13	P-17250—**No. 28**	P-17250—**No. 28**	P-17250—**No. 28**	P-17250—**No. 28**	P-17250—**No. 28**	P-17250—**No. 28**
14	P-17501	P-17501	P-17501	P-17501	P-17501	P-17501
15	P-14364	P-14364	P-14364	P-14364	P-14364	P-14364
17	P-17496	P-17496	P-17496	P-17496	P-17496	P-17496
18	P-17497—**No. 60**	P-17497—**No. 66**	P-17497—**No. 66**	P-17497—**No. 66**	P-17497—**No. 66**	P-17497—**No. 66**
19	P-16762	P-16762	P-16762	P-16762	P-16762	P-16762
20	P-5636	P-5636	P-5636	P-5636	P-5636	P-5636
21	P-5364	P-5364	P-5364	P-5364	P-5364	P-5364
22	P-18772	P-18772	P-18772	P-18772	P-18772	P-18772
23	P-16760	P-16760	P-16760	P-16760	P-16760	P-16760
27	P-16849	P-16849	P-16849	P-16849	P-16849	P-16849
30	P-20244	P-20244	P-22914	P-22914	P-22914	P-22914
	P-15817	P-15817	P-15817	P-15817	P-15817	P-15817
31	P-23225—**21°**	P-23225—**21°**	P-23225—**21°**	P-23225—**21°**	P-23225—**21°**	P-23225—**21°**
32	P-285	P-285	P-285	P-285	P-285	P-285
40	P-15259	P-15259	P-15259	P-15259	P-15259	P-15259
41	P-17515	P-17515	P-17515	P-17515	P-17515	P-17515
42	P-20226	P-20226	P-17517	P-17517	P-17517	P-17517
44	P-17494	P-17494	P-22921	P-24842	P-22921	P-24842
45	P-24841	P-24841	P-24841	P-24841	P-24841	P-24841
	Nos. 54-60	**Nos. 54-60**	**Nos. 54-60**	**Nos. 54-60**	**Nos. 54-60**	**Nos. 54-60**
52	P-7098	P-7098	P-7098	P-7098	P-7098	P-7098
53	P-15458	P-15458	P-15458	P-15458	P-15458	P-15458
54	P-12780	P-12780	P-12780	P-12780	P-12780	P-12780
55	P-16764	P-16764	P-16764	P-16764	P-16764	P-16764
56	P-19911	P-19911	P-19911	P-19911	P-19911	P-19911
57	P-14618	P-14618	P-14618	P-14618	P-14618	P-14618
58	P-8387	P-8387	P-8387	P-8387	P-8387	P-8387
59	P-6855	P-6855	P-6855	P-6855	P-6855	P-6855
60	P-17140	P-17140	P-17140	P-17140	P-17140	P-17140
61	P-20235	P-20235	P-20235	P-20235	P-20235	P-20235
62	P-12958	P-12958	P-12958	P-12958	P-12958	P-12958
63	P-17500	P-17500	P-17500	P-17500	P-17500	P-17500
64	P-17498—**1-7/16″**	P-17498—**1-1/2″**	P-17498—**1-1/2″**	P-17498—**1-1/2″**	P-17498—**1-1/2″**	P-17498—**1-1/2″**
65	P-16850	P-16850	P-16850	P-16850	P-16850	P-16850
66	P-21372	P-21372	P-21372	P-21372	P-21372	P-21372
67	P-1693	P-1693	P-1693	P-1693	P-1693	P-1693
68	P-17499	P-17499	P-17499	P-17499	P-17499	P-17499
69	P-17519	P-17519	P-17519	P-17519	P-17519	P-17519
70	P-18449	P-16795	P-18449	P-18449	P-16795	P-18449
	P-18552	P-18552	P-18552	P-18552	P-18552	P-18552
	P-15831	P-15831	P-15831	P-15831	P-15831	P-15831
71			P-16766	P-16766	P-16766	P-16766
72			P-3157	P-3157	P-3157	P-3157
73			P-16805	P-16805	P-17461	P-16805
			P-16807	P-16807	P-16807	P-16807
74			P-16763	P-16763	P-17468	P-16763
75			P-22920	P-22920	P-22920	P-22920
			P-15297	P-15297	P-15297	P-15297
			P-3199	P-3199	P-3199	P-3199
76	P-14745	P-14745	P-14745	P-14745	P-14745	P-14745
77	P-16320—**No. 65**	P-16320—**No. 60**	P-16320—**No. 60**	P-16320—**No. 65**	P-16320—**No. 60**	P-16320—**No. 60**
78	P-14160	P-14160	P-14160	P-14160	P-14160	P-14160
79	P-22713	P-22713	P-22713	P-22713	P-22713	P-22713
80	P-3292	P-3292	P-3292	P-3292	P-3292	P-3292
81	P-15459	P-15459	P-15459	P-15459	P-15459	P-15459
82	P-19901	P-19901				
83	P-16161	P-16161				
	SETTINGS Fuel Pressure—2 lbs. Fuel Level—7/8″. Throttle Valve Location—Throttle valve to cover No. 54 idle hole so a No. 57 to No. 64 drill can pass.	SETTINGS Fuel Pressure—2 lbs. Fuel Level—7/8″. Throttle Valve Location—Throttle valve to cover No. 54 idle hole so a No. 57 to No. 64 drill can pass.	SETTINGS Fuel Pressure—2 lbs. Fuel Level—7/8″. Throttle Valve Location—Throttle valve to cover No. 54 idle hole so a No. 57 to No. 64 drill can pass.	SETTINGS Fuel Pressure—2 lbs. Fuel Level—7/8″. Throttle Valve Location—Throttle valve to cover No. 54 idle hole so a No. 57 to No. 64 drill can pass.	SETTINGS Fuel Pressure—2 lbs. Fuel Level—7/8″. Throttle Valve Location—Throttle valve to cover No. 54 idle hole so a No. 57 to No. 64 drill can pass.	SETTINGS Fuel Pressure—2 lbs. Fuel Level—7/8″. Throttle Valve Location—Throttle valve to cover No. 54 idle hole so a No. 57 to No. 64 drill can pass.

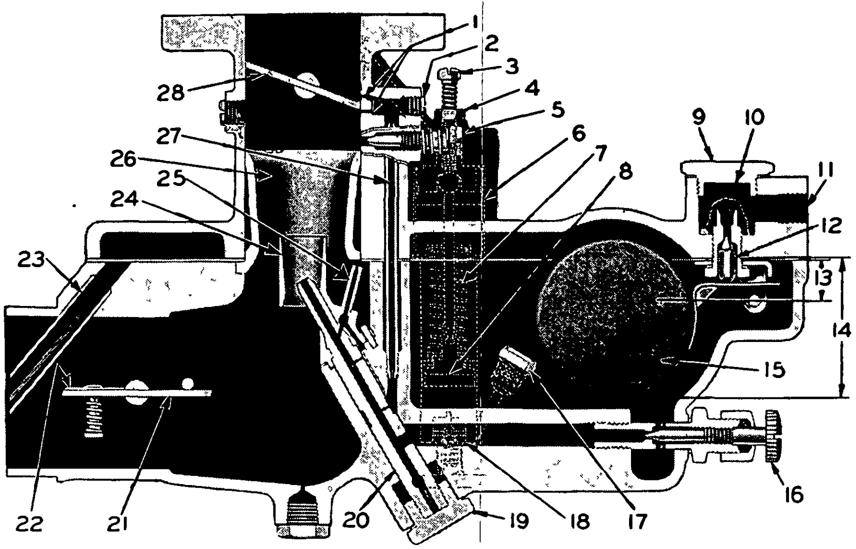
STROMBERG SF-5 CARBURETOR

FOR STROMBERG NUMBER, CODE NUMBER, MANUFACTURER'S SYMBOL NUMBER, MODEL, BORE AND STROKE INFORMATION SEE PARTS PAGE

SIZE: 2" UPDRAFT S.A.E. 3-9/16" FLANGE CENTER

PARTS ILLUSTRATED

1. Idle Discharge Holes
2. Idle Discharge Plug
3. Pump Adjustment Screw
4. Pump Adjustment Lock Screw
5. Idle Needle Valve
6. Vacuum Piston
7. Accelerating Pump Spring
8. Accelerating Pump Piston
9. Strainer Plug
10. Strainer
11. Gasoline Inlet
12. Float Needle Valve and Seat
13. Fuel Level (see instructions)
14. Float Setting (see instructions)
15. Float
16. Adjustable Metering Jet
17. Check Valve
18. Combination Power and Pump By-Pass Jet
19. Main Discharge Jet Nut
20. Main Discharge Jet
21. Choke Valve
22. Choke Poppet Valve
23. Vent Tube
24. Small Venturi
25. High Speed Bleed
26. Large Venturi
27. Idle Tube
28. Throttle Valve



Main Metering System—
The main metering system controls the flow of the fuel during the intermediate speed of the engine. Fuel enters the carburetor through the gasoline inlet (11) into the float chamber. From here the gasoline passes through the metering jet (16) which controls the supply of fuel for the main metering system, to the main discharge jet (20). The main discharge jet delivers the fuel to the small venturi (24) (auxiliary venturi) where it is mixed with air and flows into the carburetor barrel. The amount of air used in the mixture is controlled by the large venturi (26). (When replacing main discharge jet use new P-21372 gasket.)

Power System—
For maximum power or higher speeds a richer mixture is needed. This is accomplished by the power system. During the intermediate speed of the engine sufficient fuel is furnished by the main metering jet. However for hard pulls and wide open throttle this supply is not equivalent to the engine demands; therefore another valve comes into operation to supply this extra amount of gasoline needed. While the engine runs at a moderate speed a certain amount of manifold vacuum is created. This vacuum holds vacuum piston (6) in an up position but when the throttle is opened above normal to compensate for the extra power that may be needed from the engine the vacuum falls off accordingly and the vacuum piston drops until the pump piston (8), which is directly connected to the vacuum piston, comes in contact with and opens the valve in the by-pass jet (18). The opening of this valve allows an additional amount of gasoline to enter the main discharge jet and enrichens the mixture. This is known as the Power System.

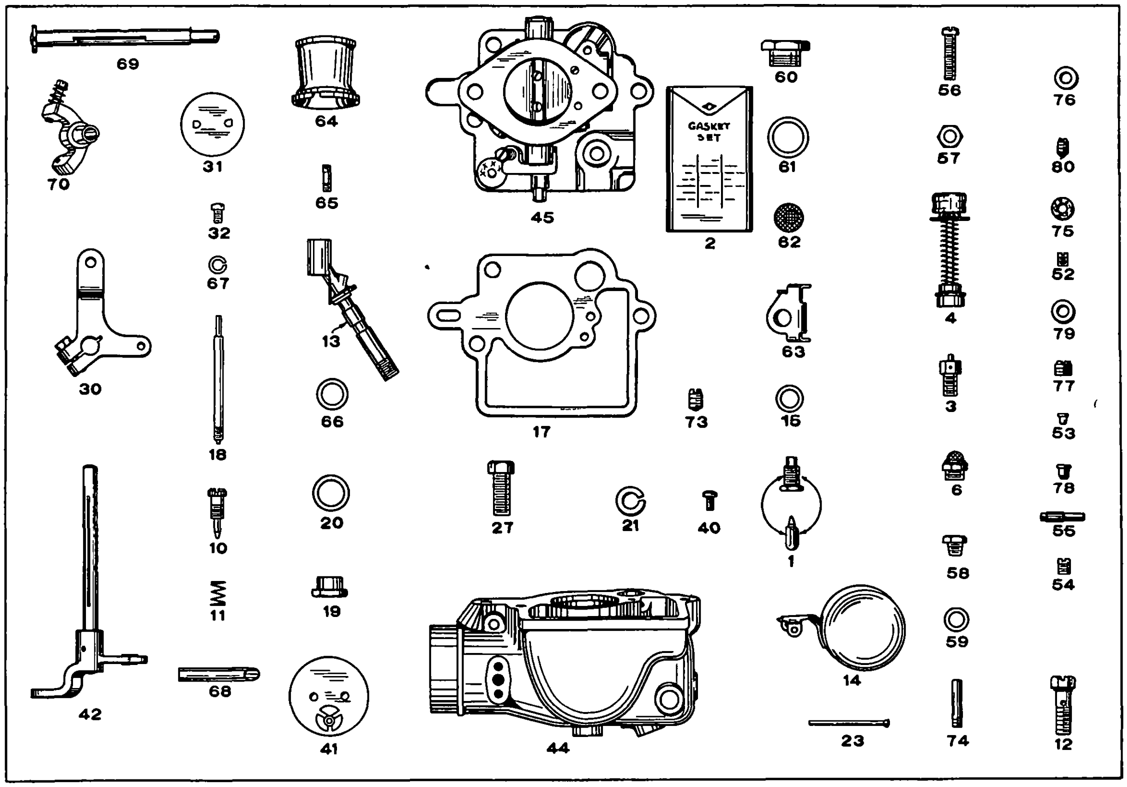
Accelerating System—
As explained above, the vacuum piston of the pump is held in an up position by the manifold vacuum created by the engine. On sudden opening of the throttle the vacuum drops off very rapidly and the vacuum piston (6) is released. When this occurs accelerating pump spring (7) forces pump piston (8) down which in turn forces a discharge of gasoline to be driven through the by-pass jet (18) and out the main discharge jet. This sudden surplus of fuel enrichens the mixture for the moment and furnishes the engine the extra power needed for fast acceleration. The amount of discharge can be controlled by the adjustment screw (3). Turn screw IN to lessen, OUT to make greater.

Idle System—
When the throttle valve is closed gasoline is delivered to the engine by means of the idle system of the carburetor. Gasoline is taken up through the idle tube (27) which meters the quantity of fuel for the idle system. It is mixed with air, the amount of which is governed by the idle needle valve (5) and reaches the engine by means of the idle holes (1) and up through the barrel of the carburetor. To make the mixture richer turn idle needle valve (5) **IN**, to make mixture leaner screw **OUT**.

Fuel Level—
The gasoline level in the float chamber is properly set at the factory and should not be adjusted unless carburetor has been handled roughly or level has been changed for some other cause. For measuring fuel level it is advisable to use an open vessel with a leveled top, large enough to support the throttle valve body and to accommodate the float assembly. Place main body gasket between body and vessel before checking. Connect gas line to inlet in throttle body and allow gas to feed into measuring vessel at the fuel pump pressure until flow is stopped by the closing of the float needle valve. Fuel level should measure (see parts page) below top surface of vessel (without gasket). Use standard depth gauge for measuring fuel level. To correct fuel level hold throttle body in inverted position and set float to measure (see parts page) from top of float (14) to gasket surface of throttle body, which will give approximate fuel level.

MOTOR TUNE-UP DATA

Due to the number of Carburetor Specifications for various engines listed herein it is impossible to give Standard Motor Tune-up Data.



SERVICE REPLACEMENT PARTS LIST

Key No.	Part Name	
1	Float Needle Valve and Seat	(NOT VAR)
2	Complete Set of Gaskets	
3	By-Pass Jet	(VAR)
4	Pump Piston	
6	Pump Inlet Check Valve	
10	Idle Needle Valve	
11	Spring—Idle Needle Valve	
12	Metering Jet	(VAR)
13	Main Discharge Jet	(VAR)
14	Float	
15	Gasket—Float Needle Valve Seat	
17	Gasket—Main Body	
18	Idle Tube	
19	Nut—Main Discharge Jet	
20	Gasket—Main Discharge Jet Nut	
21	Lockwasher—Main Body Attach Screw	
23	Fulcrum Pin—Float	
27	Screw—Main Body Attach	
30	Throttle Lever	
	Screw—Wire Conn	
31	Throttle Valve	
32	Screw—Throttle Valve Attach	
40	Screw—Choke Valve Attach	
41	Choke Valve	
42	Choke Stem	
44	Main Body	
45	Throttle Body (Comp with Idle Holes Thro Valve and Stem	(VAR)
52	Plug—Vacuum Channel	

Key No	Part Name	
53	Plug—Pump Channel	
54	Plug—Idle Discharge Holes	
55	Pin—Choke Valve	
56	Screw—Pump Adj	
57	Nut—Pump Adj Screw	
58	Plug—Gasoline Inlet	
59	Gasket—Metering Jet	
60	Plug—Gasoline Strainer	
61	Gasket—Gasoline Strainer Plug	
62	Strainer—Gasoline	
63	Hanger—Float	
64	Venturi	(VAR.)
65	Pin—Main Discharge Jet Locating	
66	Gasket—Main Discharge Jet	
67	Lockwasher—Valve Attach Screw	
68	Vent Tube	
69	Throttle Stem	
70	Throttle Stop	
	Screw—Idle Adj	
	Spring—Idle Adj Screw	
73	Set Screw—Vent Tube	
74	High Speed Bleeder	(VAR)
75	Gasket—Idle Tube—Cork	
76	Washer—Idle Tube	
77	Plug—Governor Conn	
78	Plug—Idle Drilling Hole	
79	Collar—Choke Stem	
80	Set Screw—Choke Stem Collar	

BENDIX PRODUCTS DIVISION

SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

Printed in U S A

Key No.	A-17575 **G.M.T.C.—1934** Sym. No. 053082 Code No. 23-10A 4-7/8" x 5-1/2"—6 cyl. Own 616	A-17645 **G.M.T.C.—1935** Sym. No. 053714 Code No. 23-34B 4-7/8" x 5-1/2"—6 cyl. Own 616
1	P-18812	P-18812
2	J-4271-G	J-4271-G
3	P-16786—**.074"**	P-16786—**.032"**
4	P-23126	P-23126
6	P-23135	P-23135
10	P-15396	P-15396
11	P-12530	P-12530
12	P-15384—**.072"**	P-15384—**.064"**
13	P-17250—**No. 28**	P-17250—**No. 28**
14	P-17501	382066
15	P-14364	P-14364
17	P-17585	P-17585
18	P-17497	P-19149
19	P-16762	P-16762
20	P-5636	P-5636
21	P-5364	P-5364
23	P-16760	P-16760
27	P-16849	P-16849
30	P-20227	P-21669
	P-15817	P-15817
31	P-16065 (21°)	P-16065 (21°)
32	P-285	P-285
40	P-15259	P-15259
41	P-17515	P-17515
42	P-20226	P-21671
44	P-17494	P-17494
45	382328—**Nos. 54-60**	382328—**Nos. 54-60**
52	P-7098	P-7098
53	P-15458	P-15458
54	P-12780	P-12780
55	P-16764	P-16764
56	P-19911	P-19911
57	P-14618	P-14618
58	P-8387	P-8387
59	P-6855	P-6855
60	P-17140	P-17140
61	P-20235	P-20235
62	P-12958	P-12958
63	P-17500	P-17500
64	P-17739—**1-1/2"**	P-17739—**1-3/8"**
65	P-16850	P-16850
66	P-21372	P-21372
67	P-1693	P-1693
68	P-17499	P-17499
69	P-17741	P-17741
70	P-18449	P-18449
	P-18552	P-18552
	P-15831	P-15831
73	P-14745	P-14745
74	P-16320—**No. 65**	P-16320—**No. 65**
75	P-14160	P-14160
76	P-22713	P-22713
77	P-3292	P-3292
78	P-15459	P-15459
79	P-19901	P-19901
80	P-16161	P-16161
	SETTINGS Fuel Level—7/8". Fuel Pressure—2 lbs. Throttle Valve Location—With throttle valve fully closed No. 54 idle hole should be open from a No. 64 to a No. 57 drill.	SETTINGS Fuel Level—31/32". Fuel Pressure—2 lbs. Throttle Valve Location—With throttle valve fully closed No. 54 idle hole should be open from a No. 64 to a No. 57 drill.

*Parts Not Illustrated.

STROMBERG DX-4 CARBURETOR

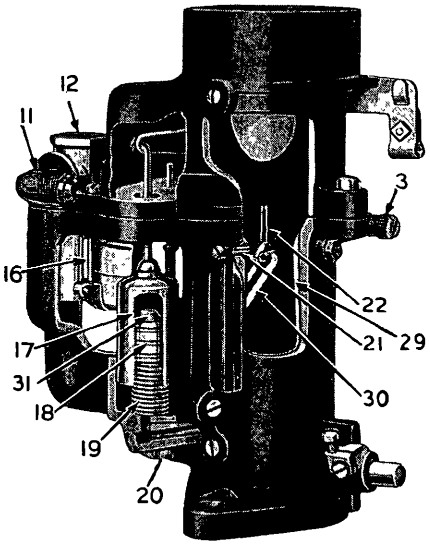
FOR STROMBERG NUMBER, CODE NUMBER, MANUFACTURER'S SYMBOL NUMBER, MODEL, BORE AND STROKE INFORMATION SEE PARTS PAGE

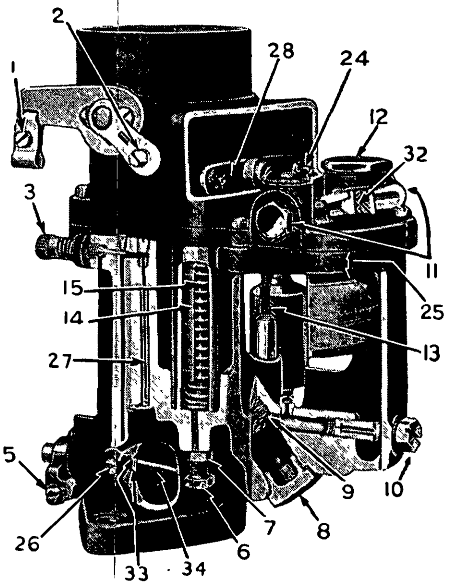
SIZE: 1-3/4" D.D. S.A.E. 3-5/16" FLANGE CENTER

G.M.T.C.
and
Yellow Coach

PARTS ILLUSTRATED

1. Choke Control Tube Holder
2. Choke Lever
3. Idle Needle Valve
5. Throttle Stop with Set Screw
6. Pump Adjustment Screw
7. Pump Adjustment Screw Lock Nut
8. Main Discharge Jet Plug
9. Main Discharge Jet Retainer Plug
10. Metering Jet
11. Gasoline Connection
12. Strainer Plug
13. Power Needle Valve
14. Vacuum Piston
15. Vacuum Piston Spring
16. Float Needle Valve and Seat
17. Pump Piston Sleeve
18. Pump Piston
19. Pump Piston Spring
20. Power By-Pass Jet
21. Pump Discharge Nozzle
22. High Speed Bleeder
24. Pump Piston Link
25. Float Setting (See Instructions)
26. Idle Discharge Plug
27. Idle Tube
28. Pump Lever
29. Venturi Tube
30. Main Discharge Jet
31. Pump Syringe Valve
32. Gasoline Strainer
33. Idle Discharge Holes
34. Throttle Valve





ADJUSTMENTS

Low Speed Adjustment—

The carburetor should carry the correct adjustment when delivered from the factory or car dealer. If the adjustment has been tampered with it may be restored as follows: *Have engine well warmed up, so that the intake pipe is at least warm to the hand.* Then slow engine down by gradual motion of the throttle lever till minimum steady idling speed is reached. Turn low speed adjustment "3" gradually right or left till steadiest running, and fastest running for that throttle position is obtained. This adjustment operates on air so that screwing it **in** gives a **richer** mixture, **out** a **leaner** one. If after this adjustment is made engine idles too fast, turn the small throttle stop screw at "5" counter-clockwise to reduce the minimum throttle opening until the desired idling speed is reached. If engine idles too slow, as shown by its "rolling" and stalling easily, screw the throttle stop screw inward or clockwise to increase the minimum idling speed. If after everything has been checked it is still impossible to get a satisfactory idle, remove plug "26" and see that the two holes near the lip of the throttle valve are open and clean. Also remove idle tube "27" and see that the small hole in the end is open and that air can be blown through the tube.

Intermediate Speed—

The mixture at intermediate speeds is controlled by the size of the Main metering orifice, No. "10." The size of this metering orifice is stamped on the outer face of the jet in decimal parts of an inch. This metering orifice has been calibrated at the factory to supply the proper amounts of fuel, and should not be changed without special instructions.

Wide Open Speed—

With wide open throttle an additional quantity of fuel is supplied by the Power By-Pass jet, No. "20."

Accelerating Pump Adjustment—

Pump Adjustment Screw, No. "6," controls the quantity of fuel delivered by the accelerating pump. This screw is properly set at the factory for normal operating conditions. **In hot weather the accelerating pump discharge may be reduced by turning this screw up, or to the right; and in winter the quantity may be increased by turning to the left, or down.** Lock nut, No. "7," should be re-tightened so that adjustment will not change.

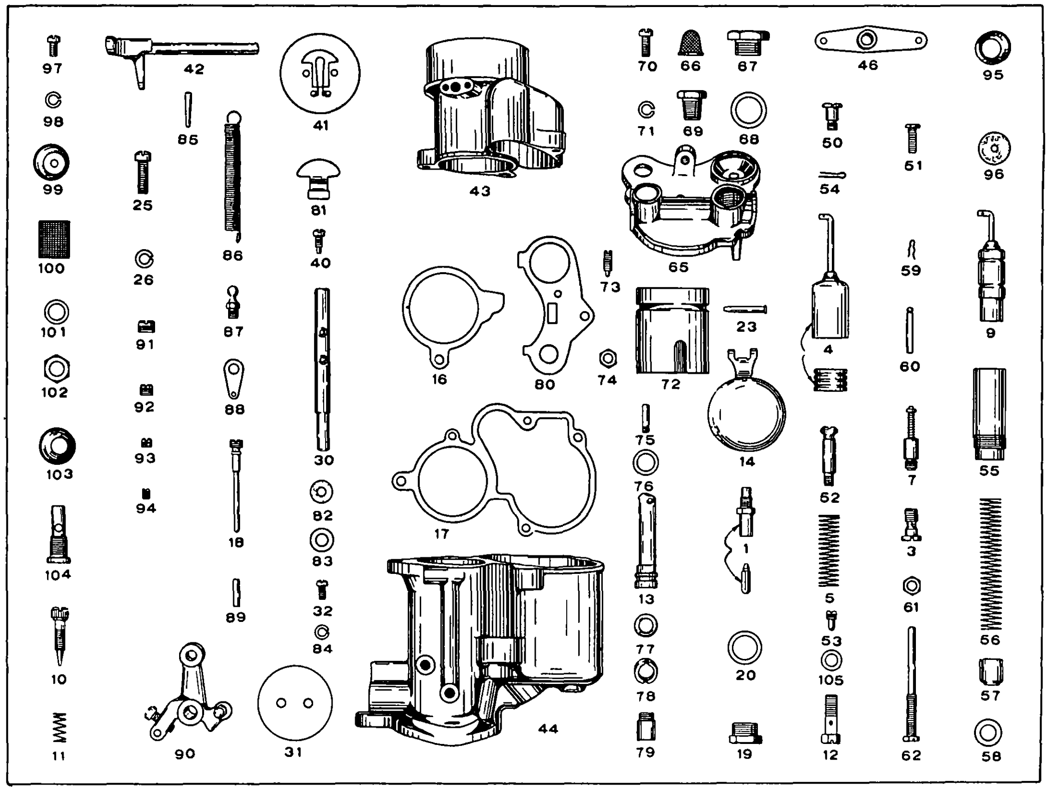
FLOAT LEVEL ADJUSTMENT

The gasoline level in the float chamber is properly set at the factory and should require no adjustment when the carburetor is assembled on the car. When the engine is not running, the gasoline level should stand 7/8" below the top of the float bowl.

Readjustment of the float setting is necessary only when rough handling of the carburetor or some other cause has changed the gasoline level. The correct setting for this series carburetor is 23/64" (shown as No. "25") from the lower surface or gasket face of the cover to the top of the float at the center. Readjustment may be made by bending the float lever arm in the corner between where it touches the float needle and where it meets the float body. If float is low, bend arm so as to move float upward toward float chamber cover the same distance as the level needs correction; that is, to raise the level 1/16", bend the float up 1/16". To lower the level hold the float arm tight where it touches the needle and bend the float downward away from the float chamber cover.

MOTOR TUNE-UP DATA

Due to the number of Carburetor Specifications for various engines listed herein it is impossible to give Standard Motor Tune-up Data.



SERVICE REPLACEMENT PARTS LIST

Key No	Part Name	
1	Float Needle Valve and Seat	(NOT VAR)
* 2	Complete Set of Gaskets	
3	Power By Pass Jet	(VAR)
4	Pump Piston Sleeve and Link	
5	Pump Piston Spring	
7	Power Needle Valve	
9	Vacuum Piston and Link	
10	Idle Needle Valve	
11	Spring—Idle Needle Valve	
12	Metering Jet	(VAR)
13	Main Discharge Jet	(VAR)
14	Float Assembly	
16	Gasket—Air Horn	
17	Gasket—Main Body	
18	Idle Tube	
19	Nut—Main Discharge Jet	
20	Gasket—Main Discharge Jet Nut	
23	Fulcrum Pin—Float	
25	Screw—Air Horn Attach	
26	Lockwasher—Air Horn Attach Screw	
30	Throttle Stem	
31	Throttle Valve	
32	Screw—Throttle Valve Attach	
40	Screw—Choke Valve Attach	
41	Choke Valve	
42	Choke Lever	
	Choke Stem	
43	Air Horn	
44	Main Body (Complete with idle holes)	
46	Pump Lever	
50	Fulcrum Screw—Pump Lever	
51	Lock Screw—Pump Lever Fulcrum Screw	
52	Pump Syringe Valve	
53	Pump Discharge Nozzle	(VAR)
54	Cotter Pin	
55	Vacuum Piston Sleeve	
56	Spring—Vacuum Piston Sleeve	
57	Cup—Vacuum Piston	
58	Gasket—Vacuum Piston Cup	
59	Cotter Pin—Push Rod	
60	Push Rod	
61	Nut—Pump Adj Screw Lock	
62	Screw—Pump Adj	
* 63	Vacuum Line Conn	
* 64	Collar—Pump Adj Screw	
65	Float Chamber Cover	
66	Strainer—Gasoline	
67	Plug—Strainer	
68	Gasket—Strainer Plug	
69	Plug—Gas Inlet	
70	Screw—Float Chamber Attach	
71	Lockwasher—Float Chamber Attach Screw	
72	Venturi	(VAR)
73	Set Screw—Venturi	
74	Nut—Set Screw Lock	
75	High Speed Bleeder	(VAR)
76	Gasket—Main Discharge Jet	
77	Washer—Main Discharge Jet	
78	Plug—Main Discharge Jet	
79	Tube—Main Discharge Jet Plug	
80	Gasket—Pump Cover	
81	Poppet—Choke Valve	
82	Packing—Throttle Stem	
83	Washer—Throttle Stem Packing	
84	Lockwasher—Throttle Valve Attach Screw	
85	Pin—Choke Lever	
86	Spring—Throttle Lever Return	
87	Ball Joint Connector	
88	Spring Clip	
89	Pin—Throttle Lever	
90	Throttle Lever	
91	Plug—Idle Discharge Holes	
92	Plug—Pump Channel	
93	Plug—Idle Channel	
94	Plug—Idle Channel	
95	Cap—Vacuum Piston Packing	
96	Packing—Vacuum Piston	
97	Screw—Air Vent Screen	
98	Lockwasher—Air Vent Screw	
99	Cap—Vent Screen	
100	Screen—Vent	
101	Gasket—Vent Screen Retainer	
102	Nut—Vent Stud	
103	Retainer—Vent Screen	
104	Stud—Vent	
105	Gasket—Metering Jet	
*106	Screw—Choke Tube Holder Attach	
*107	Choke Tube Holder	
	Screw—Clamp	
	Nut—Clamp Screw	
	Clamp—Holder	

*Parts Not Illustrated

BENDIX PRODUCTS DIVISION

SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

STROMBERG CARBURETOR

KEY NO.	A-14064 **YELLOW COACH** **Model Z** Code No. 23-24 Sym. No. 051776 4-7/8″ x 5-1/2″—6 cyl. Own 616	A-16044 **G.M.T.C.** 1931 Code No. 23-21 Sym. No. 052223	A-16064 **G.M.T.C.** 1931 Code No. 23-20 Sym. No. 052241 5″ x 6″—6 cyl. Own 707	A-17594 **G.M.T.C.** **1934 Model 450** Code No. 23-18 Sym. No. 052903 4-3/8″ x 5″—6 cyl.
1	P-18317	P-18317	P-18317	P-18317
* 2	J-4206-G	J-4206-G	J-4206-G	J-4206-G
3	P-12465—**.036″**	P-12465—**.036″**	P-12465—**.052″**	P-12465—**.055″**
4	P-14475	P-14475	P-14475	P-14475
5	P-14355	P-14355	P-14355	P-14355
7	P-13564	P-13564	P-13564	P-13564
9	P-15821	P-15821	P-15821	P-15821
10	P-14196	P-14196	P-14196	P-14196
11	P-14768	P-14768	P-14768	P-14768
12	P-13395—**.079″**	P-13395—**.084″**	P-13395—**.090″**	P-13395—**.075″**
13	P-14989	P-14989	P-14989	P-14989
14	P-10356	P-10356	P-10356	P-10356
16	P-15302	P-15302	P-15302	P-15302
17	P-15001	P-15001	P-15001	P-15001
18	P-15004	P-15004	P-15004	P-15004
19	P-12944	P-12944	P-12944	P-12944
20	P-5429	P-5429	P-5429	P-5429
23	P-14180	P-14180	P-14180	P-14180
25	P-15554	P-15554	P-15554	P-15554
26	P-3157	P-3157	P-3157	P-3157
30	P-14995	P-14995	P-14995	P-19834
31	P-6055	P-6055	P-6055	P-6055
32	P-285	P-285	P-285	P-285
40	P-15275	P-15275	P-15275	P-4522
41	P-14356	P-14356	P-14356	P-15269
42	P-15006	P-15006	P-15006	P-15271
	P-15007	P-15007	P-15007	
43	P-15226	P-15226	P-15226	P-15226
44	P-14994—**Nos. 52-62**	P-14994—**Nos. 52-62**	P-14994—**Nos. 52-62**	P-17319—**Nos. 52-62**
46	P-14347	P-14347	P-14347	P-14347
50	P-15433	P-15433	P-15433	P-15433
51	P-15434	P-15434	P-15434	P-15434
52	P-14638	P-14638	P-14638	P-14638
53	P-14622—**No. 60**	P-14622—**No. 60**	P-14622—**No. 60**	P-14786—**No. 60**
54	P-7170	P-7170	P-7170	P-7170
55	P-14338	P-14338	P-14338	P-14338
56	P-14344	P-14344	P-14344	P-14344
57	P-14583	P-14583	P-14583	P-14583
58	P-5319	P-5319	P-5319	P-5319
59	P-15390	P-15390	P-15390	P-15390
60	P-15881	P-15881	P-15881	P-15881
61				P-14648
62				P-14642
* 63	P-15820	P-15820	P-15820	
* 64				P-15858
65	P-14993	P-14993	P-14993	P-19795
66	P-12958	P-12958	P-12958	P-12958
67	P-12356	P-12356	P-12356	P-12356
	Continued on page 4	Continued on page 4	Continued on page 4	Continued on page 4

*Parts Not Illustrated.

KEY NO.	A-14064 **YELLOW COACH** **Model Z** Code No. 23-24 Sym. No. 051776 4-7/8" x 5-1/2"—6 cyl. Own 616	A-16044 **G.M.T.C.** **1931** Code No. 23-21 Sym. No. 052223	A-16064 **G.M.T.C.** **1931** Code No. 23-20 Sym. No. 052241 5" x 6"—6 cyl. Own 707	A-17594 **G.M.T.C.** **1934 Model 450** Code No. 23-18 Sym. No. 052903 4-3/8" x 5"—6 cyl.
68	P-5439	P-5439	P-5439	P-20235
69	P-26	P-26	P-26	P-8387
70	P-2475	P-2475	P-2475	P-2475
71	P-12606	P-12606	P-12606	P-6668
72	P-14999—**1-1/2"**	P-14999—**1-1/2"**	P-14999—**1-1/2"**	P-14999—**1-7/16"**
73	P-14639	P-14639	P-14639	P-14639
74	P-14618	P-14618	P-14618	P-14618
75	P-14334—**No. 54**	P-14334—**No. 54**	P-14334—**No. 54**	P-14334—**No. 56**
76	P-14364	P-14364	P-14364	P-14364
77	P-14686	P-14686	P-14686	P-14686
78	P-14773	P-14773	P-14773	P-14773
79	P-14774	P-14774	P-14774	P-14774
70	P-15303	P-15303	P-15303	P-15303
81	P-14126	P-14126	P-14126	
82	P-14203	P-14203	P-14203	P-14203
83	P-14192	P-14192	P-14192	P-14192
84	P-1693	P-1693	P-1693	P-1693
85	P-10734	P-10734	P-10734	P-10734
86	P-14990	P-14990	P-14990	
87	P-13150	P-13150	P-13150	
88	P-15002	P-15002	P-15002	
89	P-9745	P-9745	P-9745	P-9745
90	P-14998	P-14998	P-14998	P-15615
91	P-12780	P-12780	P-12780	P-12780
92	P-14374	P-14374	P-14374	P-14374
93	P-7098	P-7098	P-7098	P-7098
94	P-6207	P-6207	P-6207	P-6207
95	P-14616	P-14616	P-14616	P-14616
96	P-15882	P-15882	P-15882	P-15882
97	P-2866	P-2866	P-2866	P-2866
98	P-4627	P-4627	P-4627	P-4627
99	P-15440	P-15440	P-15440	P-15440
100	P-15437	P-15437	P-15437	P-15437
101	P-16579	P-16579	P-16579	P-16579
102	P-15438	P-15438	P-15438	P-15438
103	P-15441	P-15441	P-15441	P-15441
104	P-15439	P-15439	P-15439	P-15439
105	P-6855	P-6855	P-6855	P-6855
*106				P-11531
*107				P-19845
				P-12868
				P-8806
				P-11561
	SETTINGS Fuel Level—7/8". Fuel Pressure—2-1/2 lbs. Throttle Valve Location—With throttle valve fully closed, lower lip of valve should be Flush with No. 52 idle hole. Pump Capacity—33-37 c.c. per 10 strokes.	SETTINGS Fuel Level—7/8". Fuel Pressure—2-1/2 lbs. Throttle Valve Location—With throttle valve fully closed, lower lip of valve should be Flush with No. 52 idle hole. Pump Capacity—27-34 c.c. per 10 strokes.	SETTINGS Fuel Level—7/8". Fuel Pressure—2-1/2 lbs. Throttle Valve Location—With throttle valve fully closed, lower lip of valve should be Flush with No. 52 idle hole. Pump Capacity—27-34 c.c. per 10 strokes.	SETTINGS Fuel Level—7/8". Fuel Pressure—2-1/2 lbs. Throttle Valve Location—With throttle valve fully closed, lower lip of valve should be Flush with No. 52 idle hole. Pump Capacity—33-37 c.c. per 10 strokes.

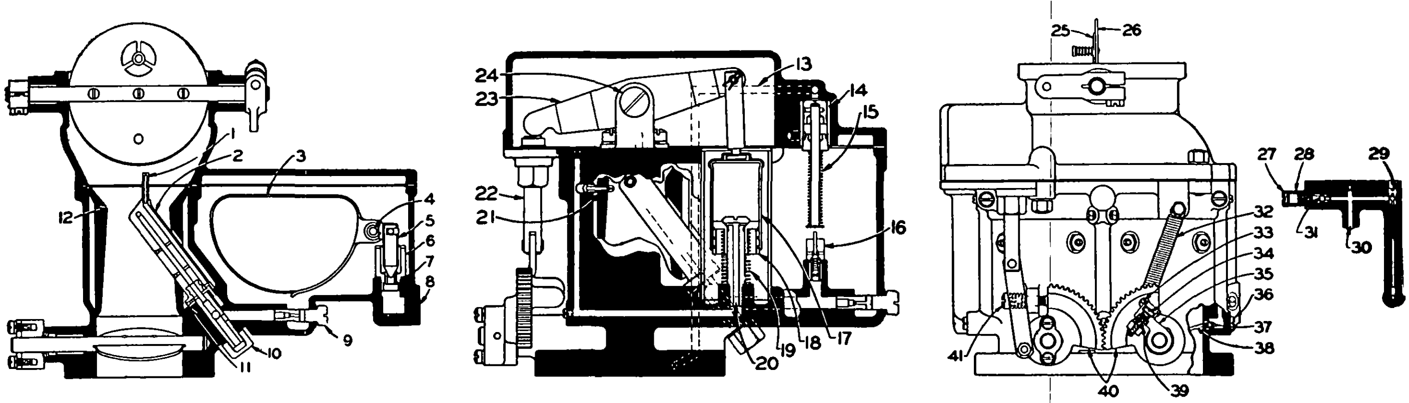
*Parts Not Illustrated.

STROMBERG DDR-5 CARBURETOR

FOR STROMBERG NUMBER, CODE NUMBER, MANUFACTURER'S SYMBOL NUMBER, MODEL, BORE AND STROKE INFORMATION SEE PARTS PAGE

SIZE 2" DUAL D D. 4-HOLE FLANGE

G.M.T.C.
and
Yellow Coach



1 High Speed Bleeder
2 Main Discharge Jet
3 Float
4 Float Fulcrum Pin
5 Float Needle Valve
6 Float Needle Valve Seat
7 Float Seat Gasket
8 Gasoline Inlet
9 Main Metering Jet
10 Main Discharge Jet Plug
11 Main Discharge Jet Gasket
12 Venturi
13 Vacuum Channel
14 Vacuum Piston
15 Vacuum Piston Spring
16 Power By Pass Jet
17 Accelerating Pump Sleeve
18 Accelerating Pump Piston
19 Pump Piston Spring
20 Pump Piston Valve
21 Pump Discharge Nozzle
22 Pump Link
23 Pump Fulcrum Arm
24 Pump Fulcrum Screw
25 Choke Relief Valve
26 Choke Valve
27 Idle Needle Valve
28 Idle Needle Valve Spring
29 Idle Tube
30 Idle Channel
31 Idle Air Bleeder
32 Throttle Return Spring
33 Synchro Screw Cot. Pin
34 Synchronizing Screw
35 Synchronizing Lever
36 Idle Discharge Plug
37 Idle Discharge Holes
38. Throttle Valve
39 Synchro Screw Spring
40 Throttle Gears
41 Throttle Stop Screw

Main Metering System—

Fuel enters the carburetor at gasoline inlet "8" through the float needle valve and seat "5" and "6" into the float bowl where it is maintained at constant level by float "3". Air enters the carburetor through the air entrance at top and places suction on the main discharge jet "2" or idle discharge holes, depending on the amount of throttle opening The main metering jets "9" are of the fixed type They control the flow of gas during the intermediate or part throttle position From the metering jet the fuel passes into the main discharge jet "2" where it is mixed with air from high speed bleeder "1" and flows into the carburetor barrel down to the intake manifold All jets of the fixed type are calibrated at the factory to supply the correct mixture for normal operating conditions and should not be changed without special instructions from the factory. The size of the jet is stamped on the outer face in thousandths of an inch.

Maximum Power—

For maximum power or high speed running a richer mixture is required than that necessary for normal throttle opening Operation of the power by-pass jet is controlled by manifold vacuum with channel "13" being open to the manifold below the throttle valves On closed throttle, with a high manifold vacuum, piston "14" is raised up and as the throttle is opened manifold vacuum decreases to the point where piston spring "15" has more force, moving the assembly downward and opening power by-pass jet "16" which allows fuel to flow through the power valve in addition to that supplied by the main metering jet The metering orifice of the by pass jet is located in the cup at the bottom

Acceleration—

For smooth, rapid acceleration and flexibility it is necessary to supply momentarily an extra amount of fuel when throttle is opened The accelerating pump is directly connected to the throttle by linkage "22" and fulcrum arm "23". As the throttle is opened pump sleeve "17" is moved downward compressing the fuel in its chamber and forcing piston "18" off its seat so that fuel passes through valve "20" and is discharged through nozzles "21" into each barrel. When the throttle is held in a steady position spring "19" returns piston "18" to its seat and cuts off the fuel supply.

Idle Metering and Adjustment—

When adjusting the idle needle valves have the engine well warmed up so that the intake manifold is at least warm to the hand. Slow down the engine gradually until a minimum idling speed is reached. Fuel for idle speeds is taken through idle tube "29". Air is fed in through bleeder hole "31" through needle valve adjustment and mixed with the fuel which passes down channel "30" to be discharged through idle holes "37" On "curb idle" or closed throttle position fuel is drawn only from the lower idle discharge hole and as the throttle is opened for increased engine speed the upper idle discharge hole is exposed to suction and fuel is also taken from it. Adjust one barrel at a time. Idle needle valves "27" control the air and turning "in" the adjustment gives a richer mixture and "out" a leaner mixture Turn one idle adjustment out slowly until the engine begins to "lag" or run irregular, then slowly turn in until the engine begins to "roll"; finally, very slowly turn out the adjustment again just enough so that the engine runs smoothly for this throttle opening. Do the same with the other idle needle valve It may be necessary after making the adjustments to cut down or increase the engine speed slightly which can be done by adjusting throttle stop screw "41". If it is not possible to get satisfactory idle adjustment, remove plug "36" and make certain that idle discharge holes are open

Synchronizing Throttle Valves—

It is very essential that the throttle valves have exactly the same amount of opening to obtain smooth performance To accomplish this synchronizing lever "35" is provided on the gear sector. To synchronize the throttle valves, carburetor must be removed from the manifold and proceed as follows —Turn out stop screw "41" with sufficient clearance so that both throttle valves close completely. Place a 3/16" wide strip of tissue paper between the throttle valve and body of both barrels Draw the strips from the barrels to see that both have approximately the same amount of resistance. If clearance needs to be adjusted, it can be done by removing cotter pin "33" and adjusting screw "34" so that both barrels are closed.

Fuel Level—

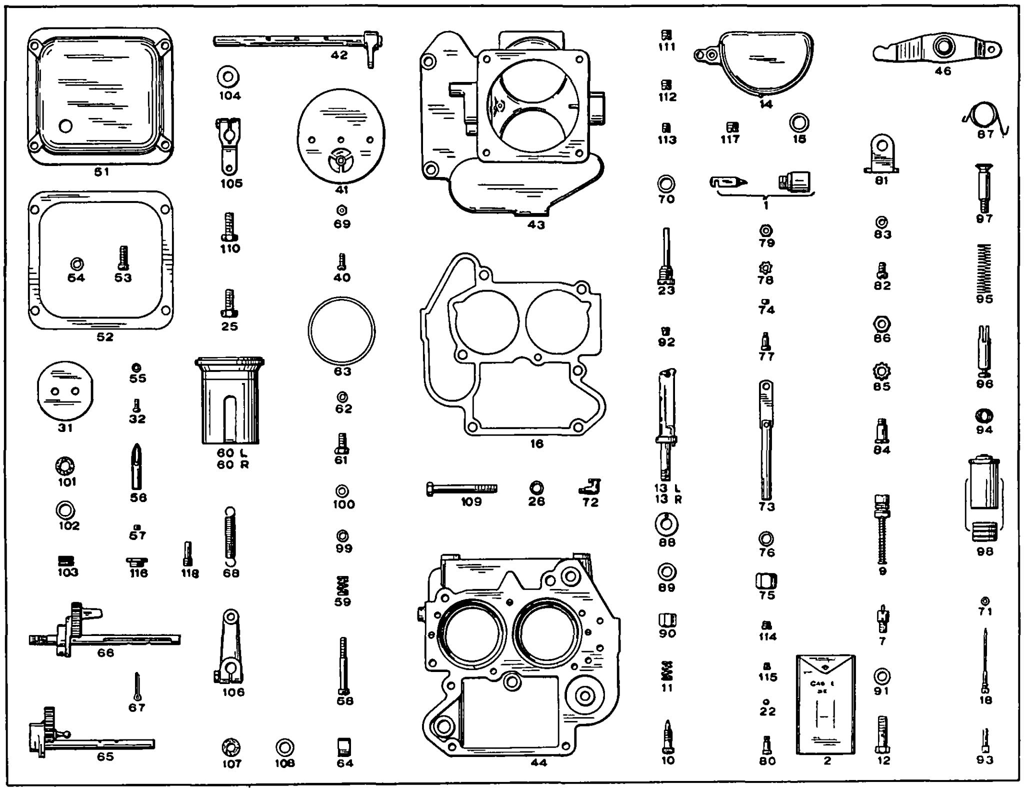
The fuel level in the float chamber is set at the factory at 1-3/32" below the top surface of the float chamber. It is not necessary to reset the float unless someone has tampered with it or the carburetor has been handled roughly.

NOTE: When ordering venturi tubes high speed bleeders metering jets main discharge jet or by-pass jets etc specify the size required and always state type of carburetor and serial number as well as model and make of car for which part is intended

MOTOR TUNE-UP DATA

Due to the number of Carburetor Specifications for various engines covered herein it is impossible to give Standard Motor Tune-up Data.

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Key No	Part Name	
1	Float Needle Valve and Seat	(NOT VAR)
2	Complete Gasket Set	
7	Power By Pass Jet	(VAR)
9	Vacuum Power Piston	
10	Idle Needle Valve	
11	Spring—Idle Needle Valve	
12	Metering Jet	(VAR)
13 L	Main Discharge Jet (Left)	(NOT VAR)
13 R	Main Discharge Jet (Right)	(NOT VAR)
14	Float with Lever	
15	Gasket—Float Needle Valve Seat	
16	Gasket—Air Horn	
18	Idle Tube	
22	Lead Ball	
23	Fulcrum Pin—Float Lever	
25	Screw—Air Horn Attaching	
26	Lockwasher—Air Horn Attaching Screw	
31	Throttle Valve	
32	Screw—Throttle Valve Attaching	
40	Screw—Choke Valve Attach	
41	Choke Valve	
42	Choke Stem and Lever	
43	Assy—Air Horn	
44	Assy—Main Body	
46	Pump Lever with Bearing	
51	Cover—Throttle Gear Box	
52	Gasket—Throttle Gear Box Cover	
53	Screw—Throttle Gear Box Cover Attach	
54	Lockwasher—Throttle Gear Box Cover Attach Screw	
55	Lockwasher—Throttle Valve Attach Screw	
56	Vent Tube	
57	Set Screw—Vent Tube	
58	Screw—Idle Adj	
59	Spring—Idle Adj Screw	
60 L	Venturi Tube (Left)	(VAR)
60 R	Venturi Tube (Right)	(VAR)
61	Set Screw—Venturi Tube	
62	Lockwasher—Venturi Tube Set Screw	
63	Gasket—Venturi Tube	
64	Bearing—Thro Stem Pump Lever and Choke Stem	
65	Throttle Gear and Stem (Left)	
66	Throttle Gear and Stem (Right)	
67	Cotter Pin—Thro Gear Adj Lever	
68	Spring—Thro Valve Return	
69	Lock Nut—Choke Valve Attach Screw	
70	Gasket—Float Lever Fulcrum Screw	
71	Gasket—Idle Tube	

Key No.	Part Name	
72	Oiler—Push Rod	
73	Push Rod with Link	
74	Bushing—Push Rod Link Fulcrum Screw	
75	Nut—Packing—Push Rod	
76	Felt Packing—Nut—Push Rod	
77	Screw—Push Rod Link Fulcrum	
78	Lockwasher—Push Rod and Piston Link Fulcrum Screw	
79	Nut—Push Rod and Piston Link Fulcrum Screw	
80	Screw—Piston Link Fulcrum	
81	Bracket—Pump Lever	
82	Screw—Pump Lever Bracket Attach	
83	Lockwasher—Pump Lever Bracket Attach Screw	
84	Screw—Pump Lever Fulcrum	
85	Lockwasher—Pump Lever Fulcrum Screw	
86	Nut—Pump Lever Fulcrum Screw	
87	Torsion Spring—Pump Lever	
88	Gasket—Main Disch Jet	
89	Gasket—Main Disch Jet Nut	
90	Nut—Main Disch Jet	
91	Gasket—Metering Jet	
92	High Speed Bleeder	(VAR)
93	Pump Discharge Nozzle	(VAR.)
94	Spring—Pump Piston Sleeve Link	
95	Spring—Pump Piston	
96	Link—Pump Piston Sleeve	
97	Pump Valve	(VAR.)
98	Pump Sleeve and Piston	
99	Washer—Slow Idle Adj Screw	
100	Felt Packing—Slow Idle Adj Screw	
101	Felt Packing—Thro Stem Seal	
102	Washer—Thro Stem Seal	
103	Spring—Throttle Stem Seal	
104	Washer—Choke Stem Seal	
105	Choke Lever	
106	Throttle Lever	
107	Felt Washer	
108	Washer—Steel	
109	Cap Screw—Air Horn Attach	
110	Screw—Air Horn Attach	
111	Plug—Pump Disch and Idle Channel	
112	Plug—Vacuum Suction Hole	
113	Plug—Primer Hole	
114	Plug—Idle Disch and Fuel Level Sight	
115	Plug—Idle Channel	
116	Nut—Throttle Stem	
117	Plug—M Body and Air Horn	
118	Pin—Choke Valve Stop	

BENDIX PRODUCTS DIVISION

SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

KEY NO.	A-17665 DDR-5 **G.M.T.C. YELLOW COACH MODEL 743 COACH—** 1st, 2nd, 3rd Series, 5X6 6-Cyl. Own 707 Sym. No. 069932 Code No. 23-57C	A-17685 DDR-5 **G.M.T.C. YELLOW COACH MODEL 742 PARLOR CAR—** 1st, 2nd Series, 5X6 6-Cyl. Own 707 Sym. No. 2050769 Code No. 23-62C	A-17695 DDR-5 **G.M.T.C. YELLOW COACH MODEL 740 CITY SERVICE—** 2nd Series, 5X6 6-Cyl. Own 707 Sym. No. 2050768 Code No. 23-63C	A-17715 DDR-5 **G.M.T.C. YELLOW COACH** 5X6 6-Cyl. Own 707 Sym. No. 2051381 Code No. 23-65A	A-17725 DDR-5 **G.M.T.C. YELLOW COACH MODEL 720**—4th and 5th Series **MODEL 735**—2nd Series 5X6 6-Cyl. Own 707 Sym. No. 2050934 Code No. 23-64C
1	P-23044—.196″	P-23044—.196″	P-23044—.196″	P-23044—.196″	P-23044—.196″
2	J-4382-G	J-4382-G	J-4382-G	J-4382-G	J-4382-G
7	P-15405—**.066″**	P-15405—**.056″**	P-15405—**.046″**	P-15405—**.056″**	P-15405—**.046″**
9	P-16217	P-16217	P-16217	P-16217	P-16217
10	P-23161	P-23161	P-23161	P-23161	P-23161
11	P-23162	P-23162	P-23162	P-23162	P-23162
12	P-15384—**.074″**	P-15384—**.074″**	P-15384—**.064″**	P-15384—**.074″**	P-15384—**.064″**
13-L	P-22541—**No. 34**	P-22541—**No. 34**	P-22541—**No. 34**	P-22541—**No. 34**	P-22541—**No. 34**
13-R	P-22540—**No. 34**	P-22540—**No. 34**	P-22540—**No. 34**	P-22540—**No. 34**	P-22540—**No. 34**
14	P-18056	P-18056	P-18056	P-18056	P-18056
15	P-14427	P 14427	P-14427	P-14427	P-14427
16	P-16181	P-16181	P-16181	P-16181	P-16181
18	P-23045—**No. 68**	P-23557—**No. 70**	P-23557—**No. 70**	P-23557—**No. 68**	P-23557—**No. 70**
22	P-18772	P-18772	P-18772	P-18772	P-18772
23	P-13688	P-13688	P-13688	P-13688	P-13688
25	P-3316	P-3316	P-3316	P-3316	P-3316
26	P-6592	P-6592	P-6592	P-6592	P-6592
31	P-23180	P-23180	P-23180	P-23180	P-23180
32	P-285	P-285	P-285	P-285	P-285
40	P-22399	P-22399	P-22399	P-22399	P-22399
41	P-23038	P-23038	P-23038	P-23038	P-23038
42	P-23036	P-23036	P-23036	P-23820	P-23608
43	P-23113	P-23113	P-23113	P-23113	P-23113
*44	**See Note**	**See Note**	**See Note**	**See Note**	**See Not**
46	P-23009	P-23009	P-23009	P-23009	P-23009
51	P-23041	P-23041	P-23041	P-23041	P-23041
52	P-23042	P-23042	P-23042	P-23042	P-23042
53	P-13041	P-13041	P-13041	P-13041	P-13041
54	P-3157	P-3157	P-3157	P-3157	P-3157
55	P-1693	P-1693	P-1693	P-1693	P-1693
56	P-16498	P-16498	P-16498	P-16498	P-16498
57	P-23179	P-23179	P-23179	P-23179	P-23179
58	P-23024	P-23024	P-23024	P-23024	P-23024
59	P-23177	P-23177	P-23177	P-23177	P-23177
60-L	P-23689—**1-1/2″**	P-23689—**1-1/2″**	P-23689—**1-3/8″**	P-23689—**1-1/2″**	P-23689—**1-3/8″**
60-R	P-23690—**1-1/2″**	P-23690—**1-1/2″**	P-23690—**1-3/8″**	P-23690—**1-1/2″**	P-23690—**1-3/8″**
61	P-23691	P-23691	P-23691	P-23691	P-23691
62	P-3157	P-3157	P-3157	P-3157	P-3157
63	P-16184	P-16184	P-16184	P-16184	P-16184
64	P-23005	P-23005	P-23005	P-23005	P-23005
65	P-23031	P-23031	P-23031	P-23031	P-23031
66	P-23028	P-23028	P-23028	P-23028	P-23028
67	P-79	P-79	P-79	P-79	P-79
68	P-15745	P-15745	P-15745	P-15745	P-15745
69	P-16639	P-16639	P-16639	P-16639	P-16639
70	P-10666	P-10666	P-10666	P-10666	P-10666
71	P-22071	P-22071	P-22071	P-22071	P-22071
72	P-23043	P-23043	P-23043	P-23043	P-23043
	Continued on Page 4.	Continued on Page 4.	Continued on Page 4.	Continued on Page 4.	Continued on Page 4.

***N te**—When ordering Main Body (Key No. 44) specify No. 382031—No. 54-56 idle holes and also give Stromberg number of Carburetor and G.M.T.C. Symbol Number. This number covers Assembly Main Body (complete with idle holes, throttle valve, stem and gear).

KEY NO.	A-17665 DDR-5 **G.M.T.C. YELLOW COACH MODEL 743 COACH—** 1st, 2nd, 3rd Series, 5X6 6-Cyl. Own 707 Sym. No. 069932 Code No. 23-57C	A-17685 DDR-5 **G.M.T.C. YELLOW COACH MODEL 742 PARLOR CAR—** 1st, 2nd Series, 5X6 6-Cyl. Own 707 Sym. No. 2050769 Code No. 23-62C	A-17695 DDR-5 **G.M.T.C. YELLOW COACH MODEL 740 CITY SERVICE—** 2nd Series, 5X6 6-Cyl. Own 707 Sym. No. 2050768 Code No. 23-63C	A-17715 DDR-5 **G.M.T.C. YELLOW COACH** 5X6 6-Cyl. Own 707 Sym. No. 2051381 Code No. 23-65A	A-17725 DDR-5 **G.M.T.C. YELLOW COACH MODEL 720**—4th and 5th Series **MODEL 735**—2nd Series 5X6 6-Cyl. Own 707 Sym. No. 2050934 Code No. 23-64C
73	P-23018	P-23018	P-23018	P-23018	P-23018
74	P-18752	P-18752	P-18752	P-18752	P-18752
75	P-23022	P-23022	P-23022	P-23022	P-23022
76	P-23023	P-23023	P-23023	P-23023	P-23023
77	P-23021	P-23021	P-23021	P-23021	P-23021
78	P-23017	P-23017	P-23017	P-23017	P-23017
79	P-10750	P-10750	P-10750	P-10750	P-10750
80	P-23016	P-23016	P-23016	P-23016	P-23016
81	P-23015	P-23015	P-23015	P-23015	P-23015
82	P-15606	P-15606	P-15606	P-15606	P-15606
83	P-6664	P-6664	P-6664	P-6664	P-6664
84	P-23014	P-23014	P-23014	P-23014	P-23014
85	P-9891	P-9891	P-9891	P-9891	P-9891
86	P-16200	P-16200	P-16200	P-16200	P-16200
87	P-23013	P-23013	P-23013	P-23013	P-23013
88	P-16192	P-16192	P-16192	P-16192	P-16192
89	P-15505	P-15505	P-15505	P-15505	P-15505
90	P-16193	P-16193	P-16193	P-16193	P-16193
91	P-6855	P-6855	P-6855	P-6855	P-6855
92	P-16179—**No. 68**	P-16179—**No. 68**	P-16179—**No. 68**	P-16179—**No. 68**	P-16179—**No. 68**
93	P-16194—**No. 52**	P-16194—**No. 55**	P-17901—**No. 52**	P-16194—**No. 56**	P-17901—**No. 52**
94	P-16203	P-16203	P-16203	P-16203	P-16203
95	P-14355	P-14355	P-14355	P-14355	P-14355
96	P-23008	P-23008	P-23008	P-23008	P-23008
97	P-13960—**No. 50**	P-13960—**No. 50**	P-13960—**No. 50**	P-13960—**No. 50**	P-13960—**No. 50**
98	P-16067	P-16067	P-16067	P-16067	P-16067
99	P-15344	P-15344	P-15344	P-15344	P-15344
100	P-16089	P-16089	P-16089	P-16089	P-16089
101	P-8598	P-8598	P-8598	P-8598	P-8598
102	P-21411	P-21411	P-21411	P-21411	P-21411
103	P-13850	P-13850	P-13850	P-13850	P-13850
104	P-23040	P-23040	P-23040	P-23040	P-23040
105	P-22371	P-22371	P-22371	P-22371	P-22371
106	P-23090	P-23090	P-23090	P-23090	P-23090
107	P-15070	P-15070	P-15070	P-15070	P-15070
108	P-21411	P-21411	P-21411	P-21411	P-21411
109	P-6877	P-6877	P-6877	P-6877	P-6877
110	P-16879	P-16879	P-16879	P-16879	P-16879
111	P-12780	P-12780	P-12780	P-12780	P-12780
112	P-6387	P-6387	P-6387	P-6387	P-6387
113	P-8387	P-8387	P-8387	P-8387	P-8387
114	P-6406	P-6406	P-6406	P-6406	P-6406
115	P-7098	P-7098	P-7098	P-7098	P-7098
116	P-23743	P-23743	P-23743	P-23743	P-23743
117	P-14374	P-14374	P-14374	P-14374	P-14374
118	P-22329	P-22329	P-22329	P-22329	P-22329
			P-23609 Collar	P-23609 Collar	
			82-S-1 Set Screw	82-S-1 Set Screw	
	SETTINGS Fuel Level—1-3/32″. Fuel Pressure—2 lbs. Throttle Valve Location—Lower lip of throttle valve to be **Flush** + — .002″ from No. 54 idle hole. Pump Capacity—**44-54** c.c. per 10 strokes with 9/16″ travel of piston.	SETTINGS Fuel Level—1-3/32″. Fuel Pressure—2 lbs. Throttle Valve Location—Lower lip of throttle valve to be **Flush** + — .002″ from No. 54 idle hole. Pump Capacity—**44-54** c.c. per 10 strokes with 9/16″ travel of piston.	SETTINGS Fuel Level—1-3/32″. Fuel Pressure—2 lbs. Throttle Valve Location—Lower lip of throttle valve to be **Flush** + — .002″ from No. 54 idle hole. Pump Capacity—**44-54** c.c. per 10 strokes with 9/16″ travel of piston.	SETTINGS Fuel Level—1-3/32″. Fuel Pressure—2 lbs. Throttle Valve Location—Lower lip of throttle valve to be **Flush** + — .002″ from No. 54 idle hole. Pump Capacity—**44-54** c.c. per 10 strokes with 9/16″ travel of piston.	SETTINGS Fuel Level—1-3/32″. Fuel Pressure—2 lbs. Throttle Valve Location—Lower lip of throttle valve to be **Flush** + — .002″ from No. 54 idle hole. Pump Capacity—**44-54** c.c. per 10 strokes with 9/16″ travel of piston.

***Note**—When ordering Main Body (Key No. 44) specify No. 382031—No. 54-56 idle holes and also give Stromberg number of Carburetor and G.M.T.C. Symbol Number. This number covers Assembly Main Body (complete with idle holes, throttle valve, stem and gear).

KEY NO.	A-17745 DDR-5 **G.M.T.C. YELLOW COACH MODEL 742 PARLOR CAR—** 5X6 6-Cyl. Own 707 Sym. No. 2090731 Code No. 23-76	380002 DDR-5 **G.M.T.C. YELLOW COACH MODEL 743** 5X6 6-Cyl. Own 707 Sym. No. 2103858 Code No. 23-94
1	P-23044—.196″	P-23044—.196″
2	J-4382-G	J-4382-G
7	P-15405—**.056″**	P-15405—**.066″**
9	P-16217	P-16217
10	P-23161	P-23161
11	P-23162	P-23162
12	P-15384—**.074″**	P-15384—**.074″**
13-L	P-22541—**No. 34**	P-22541—**No. 34**
13-R	P-22540—**No. 34**	P-22540—**No. 34**
14	P-18056	P-18056
15	P-14427	P-14427
16	P-16181	P-16181
18	P-23557—**No. 70**	P-23045—**No. 68**
22	P-18772	P-18772
23	P-13688	P-13688
25	P-3316	P-3316
26	P-6592	P-6592
31	P-23180	P-23180
32	P-285	P-285
40	P-22399	P-22399
41	P-23038	P-23038
42	P-23036	P-23036
43	P-23113	P-23113
*44	**See Note**	**See Note**
46	P-23009	P-23009
51	P-23041	P-23041
52	P-23042	P-23042
53	P-13041	P-13041
54	P-3157	P-3157
55	P-1693	P-1693
56	P-16498	P-16498
57	P-23179	P-23179
58	P-23024	P-23024
59	P-23177	P-23177
60-L	P-23689—**1-1/2″**	P-23689—**1-1/2″**
60-R	P-23690—**1-1/2″**	P-23690—**1-1/2″**
61	P-23691	P-23691
62	P-3157	P-3157
63	P-16184	P-16184
64	P-23005	P-23005
65	P-23031	P-23031
66	P-23028	P-23028
67	P-79	P-79
68	P-15745	P-15745
69	P-16639	P-16639
70	P-10666	P-10666
71	P-22071	P-22071
72	P-23043	P-23043

Continued on Page 6.

Continued on Page 6.

***Note**—When ordering Main Body (Key No. 44) specify No. 382031—No. 54-56 idle holes and also give Stromberg number of Carburetor and G.M.T.C. Symbol Number. This number covers Assembly Main Body (complete with idle holes, throttle valve, stem and gear).

KEY NO.	A-17745 DDR-5 **G.M T.C. YELLOW COACH MODEL 742 PARLOR CAR—** 5X6 6-Cyl. Own 707 Sym. No. 2090731 Code No. 23-76	380002 DDR-5 **G.M.T.C. YELLOW COACH MODEL 743** 5X6 6-Cyl. Own 707 Sym. No. 2103858 Code No. 23-94
73	P-23018	P-23018
74	P-18752	P-18752
75	P-23022	P-23022
76	P-23023	P-23023
77	P-23021	P-23021
78	P-23017	P-23017
79	P-10750	P-10750
80	P-23016	P-23016
81	P-23015	P-23015
82	P-15606	P-15606
83	P-6664	P-6664
84	P-23014	P-23014
85	P-9891	P-9891
86	P-16200	P-16200
87	P-23013	P-23013
88	P-16192	P-16192
89	P-15505	P-15505
90	P-16193	P-16193
91	P-6855	P-6855
92	P-16179—**No. 74**	P-16179—**No. 68**
93	P-16194—**No. 58**	P-16194—**No. 52**
94	P-16203	P-16203
95	P-14355	P-14355
96	P-23008	P-23008
97	P-13960—**No. 50**	P-13960—**No. 50**
98	P-16067	P-16067
99	P-15344	P-15344
100	P-16089	P-16089
101	P-8598	P-8598
102	P-21411	P-21411
103	P-13850	P-13850
104	P-23040	P-23040
105	P-22371	P-22371
106	P-23090	382034
107	P-15070	P-15070
108	P-21411	P-21411
109	P-6877	P-6877
110	P-16879	P-16879
111	P-12780	P-12780
112	P-6387	P-6387
113	P-8387	P-8387
114	P-6406	P-6406
115	P-7098	P-7098
116	P-23743	P-23743
117	P-14374	P-14374
118	P-22329	P-22329
	SETTINGS Fuel Level—1-3/32″. Fuel Pressure—2 lbs. Throttle Valve Location—Lower lip of throttle valve to be **Flush** +—.002″ from No. 54 idle hole. Pump Capacity—**44-54** c.c. per 10 strokes with 9/16″ travel of piston.	SETTINGS Fuel Level—1-3/32″. Fuel Pressure—2 lbs. Throttle Valve Location—Lower lip of throttle valve to be **Flush** +—.002″ from No. 54 idle hole. Pump Capacity—**44-54** c.c. per 10 strokes with 9/16″ travel of piston.

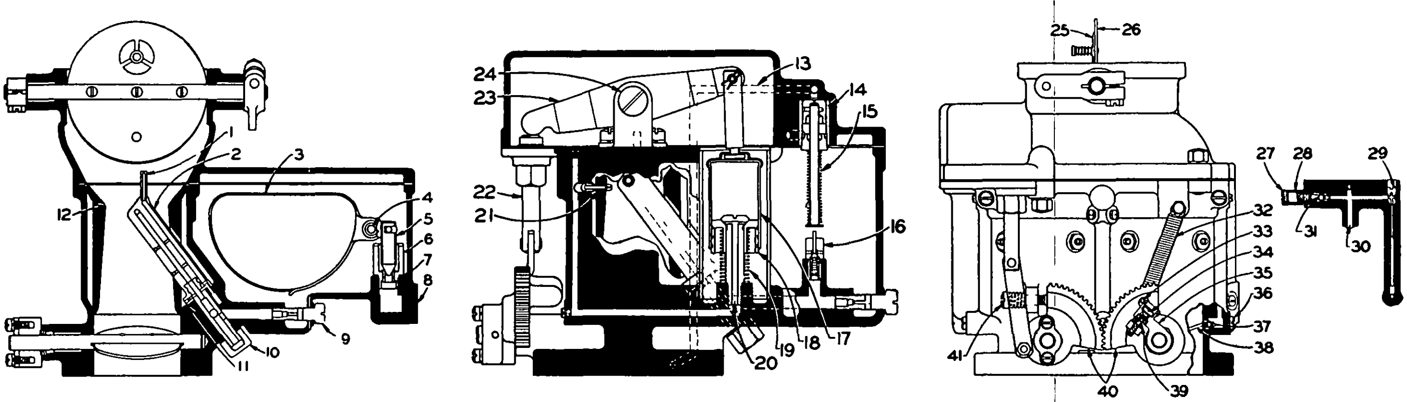
***Note**—When ordering Main Body (Key No. 44) specify No. 382031—No. 54-56 idle holes and also give Stromberg number of Carburetor and G.M.T.C. Symbol Number. This number covers Assembly Main Body (complete with idle holes, throttle valve, stem and gear).

STROMBERG DDR-5 CARBURETOR

FOR STROMBERG NUMBER, CODE NUMBER, MANUFACTURER'S SYMBOL NUMBER, MODELS, BORE AND STROKE INFORMATION SEE PARTS PAGE

SIZE: 2" DUAL D.D. 4-HOLE FLANGE

G.M.T.C.
and
Yellow Coach
(Old Style)



1 High Speed Bleeder
2 Main Discharge Jet
3 Float
4 Float Fulcrum Pin
5 Float Needle Valve
6 Float Needle Valve Seat
7 Float Seat Gasket
8 Gasoline Inlet
9 Main Metering Jet
10 Main Discharge Jet Plug
11 Main Discharge Jet Gasket
12 Venturi
13 Vacuum Channel
14 Vacuum Piston
15 Vacuum Piston Spring
16 Power By-Pass Jet
17 Accelerating Pump Sleeve
18 Accelerating Pump Piston
19 Pump Piston Spring
20 Pump Piston Valve
21 Pump Discharge Nozzle
22 Pump Link
23 Pump Fulcrum Arm
24 Pump Fulcrum Screw
25 Choke Relief Valve
26 Choke Valve
27. Idle Needle Valve
28 Idle Needle Valve Spring
29 Idle Tube
30 Idle Channel
31 Idle Air Bleeder
32 Throttle Return Spring
33. Synchro Screw Cot Pin
34 Synchronizing Screw
35. Synchronizing Lever
36 Idle Discharge Plug
37 Idle Discharge Holes
38. Throttle Valve
39. Synchro Screw Spring
40. Throttle Gears
41 Throttle Stop Screw

Main Metering System—

Fuel enters the carburetor at gasoline inlet "8" through the float needle valve and seat "5" and "6" into the float bowl where it is maintained at constant level by float "3". Air enters the carburetor through the air entrance at top and places suction on the main discharge jet "2" or idle discharge holes, depending on the amount of throttle opening. The main metering jets "9" are of the fixed type. They control the flow of gas during the intermediate or part throttle position. From the metering jet the fuel passes into the main discharge jet "2" where it is mixed with air from high speed bleeder "1" and flows into the carburetor barrel down to the intake manifold. All jets of the fixed type are calibrated at the factory to supply the correct mixture for normal operating conditions and should not be changed without special instructions from the factory. The size of the jet is stamped on the outer face in thousandths of an inch.

Maximum Power—

For maximum power or high speed running a richer mixture is required than that necessary for normal throttle opening Operation of the power by-pass jet is controlled by manifold vacuum with channel "13" being open to the manifold below the throttle valves. On closed throttle, with a high manifold vacuum, piston "14" is raised up and as the throttle is opened manifold vacuum decreases to the point where piston spring "15" has more force, moving the assembly downward and opening power by-pass jet "16" which allows fuel to flow through the power valve in addition to that supplied by the main metering jet. The metering orifice of the by-pass jet is located in the cup at the bottom.

Acceleration—

For smooth, rapid acceleration and flexibility it is necessary to supply momentarily an extra amount of fuel when throttle is opened. The accelerating pump is directly connected to the throttle by linkage "22" and fulcrum arm "23". As the throttle is opened pump sleeve "17" is moved downward compressing the fuel in its chamber and forcing piston "18" off its seat so that fuel passes through valve "20" and is discharged through nozzles "21" into each barrel. When the throttle is held in a steady position spring "19" returns piston "18" to its seat and cuts off the fuel supply.

Idle Metering and Adjustment—

When adjusting the idle needle valves have the engine well warmed up so that the intake manifold is at least warm to the hand. Slow down the engine gradually until a minimum idling speed is reached. Fuel for idle speeds is taken through idle tube "29". Air is fed through bleeder hole "31" through needle valve adjustment and mixed with the fuel which passes down channel "30" to be discharged through idle holes "37". On "curb idle" or closed throttle position fuel is drawn only from the lower idle discharge hole and as the throttle is opened for increased engine speed the upper idle discharge hole is exposed to suction and fuel is also taken from it. Adjust one barrel at a time. Idle needle valves "27" control the air and turning "in" the adjustment gives a richer mixture and "out" a leaner mixture. Turn one idle adjustment out slowly until the engine begins to "lag" or run irregular, then slowly turn in until the engine begins to "roll"; finally, very slowly turn out the adjustment again just enough so that the engine runs smoothly for this throttle opening Do the same with the other idle needle valve. It may be necessary after making the adjustments to cut down or increase the engine speed slightly which can be done by adjusting throttle stop screw "41". If it is not possible to get satisfactory idle adjustment, remove plug "36" and make certain that idle discharge holes are open.

Synchronizing Throttle Valves—

It is very essential that the throttle valves have exactly the same amount of opening to obtain smooth performance. To accomplish this synchronizing lever "35" is provided on the gear sector. To synchronize the throttle valves, carburetor must be removed from the manifold and proceed as follows.—Turn out stop screw "41" with sufficient clearance so that both throttle valves close completely. Place a 3/16" wide strip of tissue paper between the throttle valve and body of both barrels. Draw the strips from the barrels to see that both have approximately the same amount of resistance. If clearance needs to be adjusted, it can be done by removing cotter pin "33" and adjusting screw "34" so that both barrels are closed.

Fuel Level—

The fuel level in the float chamber is set at the factory at 1-3/32" below the top surface of the float chamber. It is not necessary to reset the float unless someone has tampered with it or the carburetor has been handled roughly.

NOTE: When ordering venturi tubes, high speed bleeders metering jets, main discharge jet, or by-pass jets etc specify the size required, and always state type of carburetor and serial number as well as model and make of car for which part is intended

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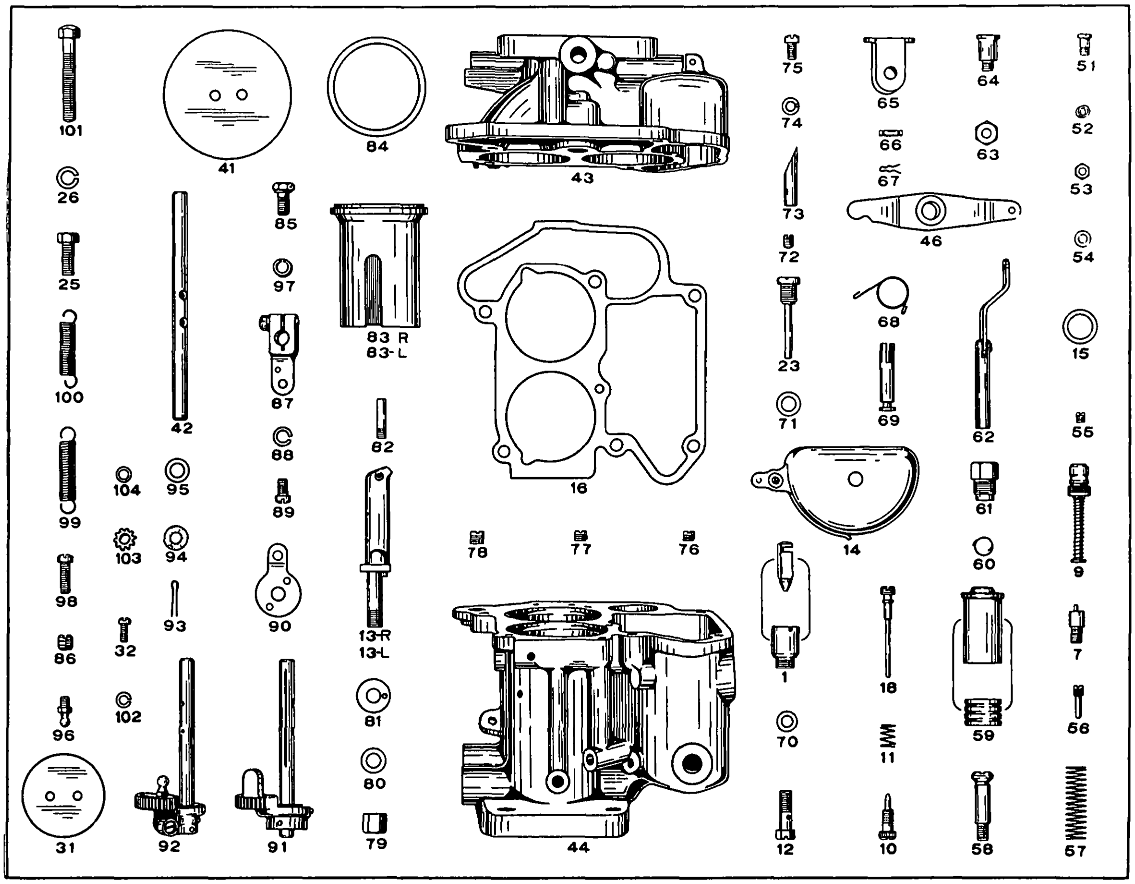
MOTOR TUNE-UP DATA

Due to the number of Carburetor Specifications for various engines listed herein it is impossible to give Standard Motor Tune-up Data.



SERVICE REPLACEMENT PARTS LIST

Key No.	Part Name	
1	Float Needle Valve and Seat	(NOT VAR)
2	Complete Gasket Set	
7	Power By-Pass Jet	(VAR)
9	Vacuum Power Piston	
10	Idle Needle Valve	
11	Spring—Idle Needle Valve	
12	Metering Jet	(VAR)
13-L	Main Discharge Jet (Left)	(NOT VAR)
13-R	Main Discharge Jet (Right)	(NOT VAR)
14	Float	
15	Gasket—Float Needle Valve Seat	
16	Gasket—Air Horn	
18	Idle Tube	
23	Fulcrum Pin—Float Lever	
25	Screw—Air Horn Attach	
26	Lockwasher—Air Horn Attach Screw	
31	Throttle Valve	
32	Screw—Throttle and Choke Valve Attach	
41	Choke Valve	
42	Choke Stem and Lever	
43	Assy —Air Horn	
44	Assy —Main Body	(VAR)
46	Pump Lever	
51	Fulcrum Screw—Pump Rod	
52	Bushing—Pump Rod Fulcrum Screw	
53	Nut—Pump Rod Fulcrum Screw	
54	Washer—Pump Rod Link Fulcrum Screw Nut	
55	Plug—Vacuum Suction Channel	
56	Nozzle—Pump Discharge	(VAR)
57	Spring—Pump Syringe Valve	
58	Syringe Valve—Pump	(VAR)
59	Assy —Pump Sleeve and Piston	
60	Spring—Pump Link	
61	Bushing—Pump Rod	
62	Pump Rod and Link	
63	Nut—Pump Lever Fulcrum Screw	
64	Screw—Pump Lever Fulcrum	
65	Bracket—Pump Lever	
66	Pin—Pump Link Fulcrum	
67	Cotter Pin—Pump Link Fulcrum Pin	
68	Spring—Torsion—Pump Lever	
69	Link—Pump Sleeve	
70	Gasket—Metering Jet	
71	Gasket—Float Fulcrum Screw	
72	Set Screw—Vent Tube	
73	Vent Tube	
74	Lockwasher—Pump Lever Bracket Screw	
75	Screw—Pump Lever Bracket	
76	Plug—Idle Channel	
77	Plug—Pump Discharge	
78	Plug—Idle Discharge Holes	
79	Nut—Main Discharge Jet	
80	Gasket—Main Discharge Jet Nut	
81	Gasket—Main Discharge Jet	
82	High Speed Bleeder	(VAR.)
83 L	Venturi (Left)	(VAR.)
83 R	Venturi (Right)	(VAR.)
84	Gasket—Venturi	
85	Cap Screw—Venturi Set	
86	Plug—No 10-24	
87	Choke Lever	
	Screw—Choke Lever Clamp	
88	Lockwasher—Throttle Lever Attach Screw	
89	Screw—Throttle Lever Attach	
90	Throttle Lever	
91	Throttle Gear and Stem (Right)	
92	Throttle Gear and Stem (Left)	
	Screw—Throttle Gear Adj	
	Spring—Throttle Gear Adj Screw	
93	Cotter Pin—Throttle Gear Adj Lever	
94	Packing—Throttle Stem	
95	Washer—Throttle Stem Packing	
96	Ball Connector	
97	Lockwasher—Venturi Set Screw	
98	Screw—Idle Adjust	
99	Spring—Throttle Valve Return	
100	Spring—Choke Valve Return	
101	Cap Screw—Air Horn Attach	
102	Lockwasher—Throttle and Choke Valve Attach Screw	
103	Lockwasher—Pump Lever Fulcrum Screw Nut	
104	Gasket—Idle Tube	
*105	Pump Adj Valve	
*106	Float Chamber Vent	
*107	Set Screw—Venturi (Headless)	
*108	Nut—Venturi Set Screw	
*109	Screw—Choke Valve Attach	
*110	Nut—Choke Valve Attach Screw	
*111	Pin—Choke Valve Stop	
*112	Lead Ball	

*Parts Not Illustrated

BENDIX PRODUCTS DIVISION

SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

STROMBERG CARBURETOR

Key No.	A-14065 DDR-5 **G.M.T.C.** **1931 MODEL T-85** Sym. No. 052003 Code No. 23-42 4-1/4″ x 5-1/2″—6, Own 468	A-15555 DDR-5 **G.M.T.C.** **1931 MODEL T-95** Sym. No. 052092 Code No. 23-30 4-1/2″ x 5-1/2″—6. Own 525	A-15595 DDR-5 **G.M.T.C.—1931-32** **MODELS T-85, T-95, T-96** Sym. No. 052139 Code No. 23-2 4-7/8″ x 5-1/2″—6, Own 468, 525, 616	A-15605 DDR-5 **G.M.T.C.—1931** **MODELS T-85, 95, 96** Sym. No. 052138 4-1/4″ x 5-1/2″—6, Own 468	A-15655 DDR 5 **G.M.T.C.—1931** **MODELS T-85, 95, 96** Sym. No. 052188 Code No. 23-3 5″ x 6″—6, Own 707	A-15635 DDR-5 **G.M.T.C.—1931** **MODELS T-100, 110** Sym. No. 052093 4-7/8″ x 5-1/2″—6, Own 616
1	P-19551	P-19551	P-19551	P-19551	P-19551	P-19551
* 2	J-4382-G	J-4382-G	J-4382-G	J-4382-G	J-4382-G	J-4382-G
7	P-15405—**.040″**	P-15405—**.056″**	P-15405—**.040″**	P-15405—**.040″**	P-15405—**.042″**	P-15405—**.064″**
9	P-16217	P-16217	P-16217	P-16217	P-16217	P-16217
10	P-15396	P-15396	P-15396	P-15396	P-15396	P-15396
11	P-12530	P-12530	P-12530	P-12530	P-12530	P-12530
12	P-15384—**.070″**	P-15384—**.068″**	P-15384—**.070″**	P-15384—**.076″**	P-15384—**.074″**	P-15384—**.068″**
13-L	P-22591—**No. 33**	P-22591—**No. 33**	P-22593—**No. 42**	P-22593—**No. 42**	P-22595—**No. 34**	P-22591—**No. 33**
13-R	P-22592—**No. 33**	P-22592—**No. 33**	P-22594—**No. 42**	P-22594—**No. 42**	P-22596—**No. 34**	P-22592—**No. 33**
14	P-13687	P-13687	P-13687	P-13687	P-13687	P-13687
15	P-5319	P-5319	P-5319	P-5319	P-5319	P-5319
16	P-16181	P-16181	P-16181	P-16181	P-16181	P-16181
18	P-16381	P-16381	P-16672	P-16672	P-16381	P-16381
23	P-13688	P-13688	P-13688	P-13688	P-13688	P-13688
25	P-3316	P-3316	P-3316	P-3316	P-3316	P-3316
26	P-6592	P-6592	P-6592	P-6592	P-6592	P-6592
31	P-6004	P-6004	P-6004	P-6004	P-6004	P-6004
32	P-285	P-285	P-285	P-285	P-285	P-285
41	P-6082	P-6082	P-6082	P-6082	P-6082	P-6082
42	P-16216	P-16216	P-16216	P-16216	P-16216	P-16216
43	P-16616	P-16616	P-16126	P-16126	P-16616	P-16616
44	P-16125	P-16125	P-16665	P-16665	P-20291	P-16125
	Nos. 54-64	**Nos. 54-64**	**Nos. 53-64**	**Nos. 53-64**	**Nos. 52-64**	**Nos. 54-64**
46	P-16195	P-16195	P-16195	P-16195	P-16195	P-16195
51	P-18751	P-18751	P-18751	P-18751	P-18751	P-18751
52	P-18752	P-18752	P-18752	P-18752	P-18752	P-18752
53	P-10750	P-10750	P-10750	P-10750	P-10750	P-10750
54	P-15108	P-15108	P-15108	P-15108	P-15108	P-15108
55	P-6387	P-6387	P-6387	P-6387	P-6387	P-6387
56	P-16194—**No. 55**	P-16194—**No. 55**	P-16194—**No. 52**	P-16194—**No. 55**	P-16194—**No. 55**	P-16194—**No. 55**
57	P-14355	P-14355	P-14355	P-14355	P-14355	P-14355
58	P-13960	P-13960	P-13960	P-13960	P-13960	P-13960
	2 No. 50	**2 No. 50**	**2 No. 50**	**2 No. 50**	**2 No. 50**	**2 No. 50**
59	P-16067	P-16067	P-16067	P-16067	P-16067	P-16067
60	P-16203	P-16203	P-16203	P-16203	P-16203	P-16203
61	P-22825	P-22825	P-22825	P-22825	P-22825	P-22825
62	P-18749	P-18749	P-18749	P-18749	P-18749	P-18749
63	P-16200	P-16200	P-16200	P-16200	P-16200	P-16200
64	P-16199	P-16199	P-16199	P-16199	P-16199	P-16199
65	P-16198	P-16198	P-16198	P-16198	P-16198	P-16198
66	P-16202	P-16202	P-16202	P-16202	P-16202	P-16202
67	P-15390	P-15390	P-15390	P-15390	P-15390	P-15390
68	P-23013	P-23013	P-23013	P-23013	P-16204	P-23013
69	P-16201	P-16201	P-16201	P-16201	P-16201	P-16201
70	P-6855	P-6855	P-6855	P-6855	P-6855	P-6855
71	P-10666	P-10666	P-10666	P-10666	P-10666	P-10666
72			P-23179	P-23179		
73			P-16499	P-16499		
	Continued on Page 4.	Continued on Page 4	Continued on Page 4.	Continued on Page 4.	Continued on Page 4.	Continued on Page 4.

*Parts Not Illustrated.

STROMBERG CARBURETOR

Key No.	A-14065 DDR-5 **G.M.T.C.** **1931 MODEL T-85** Sym. No. 052003 Code No. 23-42 4-1/4″ x 5-1/2″—6, Own 468	A-15555 DDR-5 **G.M.T.C.** **1931 MODEL T-95** Sym. No. 052092 Code No. 23-30 4-1/2″ x 5-1/2″—6, Own 525	A-15595 DDR-5 **G.M.T.C.—1931-32** **MODELS T-85, T-95, T-96** Sym. No. 052139 Code No. 23-2 4-7/8″ x 5-1/2″—6, Own 468, 525, 616	A-15605 DDR-5 **G.M.T.C.—1931** **MODELS T-85, 95, 96** Sym. No. 052138 4-1/4″ x 5-1/2″—6, Own 468	A-15655 DDR-5 **G.M.T.C.—1931** **MODELS T-85, 95, 96** Sym. No. 052188 Code No. 23-3 5″ x 6″—6, Own 707	A-15635 DDR-5 **G.M.T.C.—1931** **MODELS T-100, 110** Sym. No. 052093 4-7/8″ x 5-1/2″—6, Own 616
74	P-6664	P-6664	P-6664	P-6664	P-6664	P-6664
75	P-15606	P-15606	P-15606	P-15606	P-15606	P-15606
76	P-7098	P-7098	P-7098	P-7098	P-7098	P-7098
77	P-12780	P-12780	P-12780	P-12780	P-12780	P-12780
78	P-6406	P-6406	P-6406	P-6406	P-6406	P-6406
79	P-16193	P-16193	P-16193	P-16193	P-16193	P-16193
80	P-15505	P-15505	P-15505	P-15505	P-15505	P-15505
81	P-16192	P-16192	P-16192	P-16192	P-16192	P-16192
82	P-16320—**No. 68**	P-16320—**No. 68**	P-16320—**No. 68**	P-16527—**No. 68**	P-16527—**No. 54**	P-16320—**No. 68**
83-L	P-16182—**1-1/2″**	P-16182—**1-1/2″**	P-23689—**1-3/8″**	P-23689—**1-1/2″**	P-16182—**1-9/16″**	P-16182—**1-1/2″**
83-R	P-16183—**1-1/2″**	P-16183—**1-1/2″**	P-23690—**1-3/8″**	P-23690—**1-1/2″**	P-16183—**1-9/16″**	P-16183—**1-1/2″**
84	P-16184	P-16184	P-16184	P-16184	P-16184	P-16184
85			P-23691	P-23691		
86	P-14374	P-14374	P-14374	P-14374	P-14374	P-14374
87	P-16223	P-16223	P-16223	P-16223	P-16223	P-16223
	P-22375	P-22375	P-22375	P-22375	P-22375	P-22375
88	P-6668	P-6668	P-6668	P-6668	P-6668	P-6668
89	P-46	P-46	P-46	P-46	P-46	P-46
90	P-16186	P-16186	P-16186	P-16186	P-16186	P-16186
91	P-18744	P-18744	P-18744	P-18744	P-18744	P-18744
92	P-18745	P-18745	P-18745	P-18745	P-18745	P-18745
	P-14649	P-14649	P-14649	P-14649	P-14649	P-14649
	P-14650	P-14650	P-14650	P-14650	P-14650	P-14650
93	P-79	P-79	P-79	P-79	P-79	P-79
94	P-14203	P-14203	P-14203	P-14203	P-14203	P-14203
95	P-16215	P-16215	P-16215	P-16215	P-16215	P-15215
96	P-13150	P-13150	P-13150	P-13150	P-13150	P-13150
97			P-3157	P-3157		
98	P-15554	P-15554	P-15554	P-15554	P-15554	P-15554
99	P-15745	P-15745	P-15745	P-15745	P-15745	P-15745
100	P-16226	P-16226	P-16226	P-16226	P-16226	P-16226
101	P-6877	P-6877	P-6877	P-6877	P-6877	P-6877
102	P-1693	P-1693	P-1693	P-1693	P-1693	P-1693
103	P-9891	P-9891	P-9891	P-9891	P-9891	P-9891
104	P-22071	P-22071	P-22071			
*105	P-16096					P-16096
*106	P-15454	P-15454			P-15454	P-15454
*107	P-14639	P-14639			P-14639	P-14639
*108	P-14618	P-14618			P-14618	P-14618
*109						
*110						
*111						
*112						
	SETTINGS Fuel Pressure—2 lbs. Fuel Level—15/16″. Throttle Valve Location—Edge of throttle valve to be Flush + — .004″ from No. 54 idle hole.	SETTINGS Fuel Pressure—2 lbs. Fuel Level—15/16″. Throttle Valve Location—Edge of throttle valve to be Flush + — .004″ from No. 54 idle hole. Pump Capacity—80 c.c. per 10 strokes. Full travel.	SETTINGS Fuel Pressure—2 lbs. Fuel Level—15/16″. Throttle Valve Location—Edge of throttle valve to be Flush + — .004″ from No. 53 idle hole. Pump Capacity—65 c.c. per 10 strokes. Full travel.	SETTINGS Fuel Pressure—2 lbs Fuel Level—15/16″. Throttle Valve Location—Edge of throttle valve to be Flush + — .004″ from No. 53 idle hole. Pump Capacity—65 c.c. per 10 strokes. Full travel.	SETTINGS Fuel Pressure—2 lbs. Fuel Level—15/16″. Throttle Valve Location—Edge of throttle valve to be Flush + — .004″ from No. 52 idle hole. Pump Capacity—65 c.c. per 10 strokes. Full travel.	SETTINGS Fuel Pressure—2 lbs. Fuel Level—15/16″. Throttle Valve Location—Edge of throttle valve to be Flush + — .004″ from No. 54 idle hole.

*Parts Not Illustrated.

STROMBERG CARBURETOR

Key No.	A-16045 DDR-5 **G.M.T.C.** **1932 MODEL Z-250** Sym. No. 052369 Code No. 23-1 5″ x 6″—6, Own 707	A-16815 DDR-5 **G.M.T.C.** **1932 MODEL V-225** Sym. No. 052406 Code No. 23-4 4-1/2″ x 5-1/2″—6, Own 525	A-17605 DDR-5 **G.M.T.C.** **1934 MODEL** Sym. No. 053026 Code No. 23-13 4-1/4″ x 5-1/2″—6, Own 468	A-17635 DDR-5 **G.M.T.C.—1936** **MODELS 719, 734, 740** Sym. No. 053959 Code No. 23-39A 5″ x 6″—6 Cyl. Own 707	A-17655 DDR-5 **G.M.T.C.—1936** **MODELS 720, 735** Sym. No. 069438 Code No. 23-45 5″ x 6″—6, Own 707	A-17675 DDR-5 **YELLOW COACH** **1937 MODEL 732** Sym. No. 2050087 Code No. 23-58 5″ x 6″—6, Own 707
1	P-19551	P-19551	P-19551	P-19551	P-19551	P-19551
* 2	J-4382-G	J-4382-G	J-4382-G	J-4382-G	J-4382-G	J-4382-G
7	P-15405—**.080″**	P-15405—**.064″**	P-15405—**.048″**	P-15405—**.066″**	P-15405—**.046″**	P-15405—**.056″**
9	P-16217	P-16217	P-16217	P-16217	P-16217	P-16217
10	P-15396	P-15396	P-15396	P-15396	P-15396	P-15396
11	P-12530	P-12530	P-12530	P-12530	P-12530	P-12530
12	P-12512—**.079″**	P-12512—**.072″**	P-15384—**.067″**	P-15384—**.074″**	P-15384—**.064″**	P-15384—**.074″**
13-L	P-22595—**No. 34**	P-22593—**No. 42**	P-22589—**No. 38**	P-22541—**No. 34**	P-22541—**No. 34**	P-22541—**No. 34**
13-R	P-22596—**No. 34**	P-22594—**No. 42**	P-22590—**No. 38**	P-22542—**No. 34**	P-22542—**No. 34**	P-22542—**No. 34**
14	P-13687	P-13687	P-13687	P-13687	P-13687	P-13687
15	P-5319	P-5319	P-5319	P-5319	P-5319	P-5319
16	P-16181	P-16181	P-16181	P-16181	P-16181	P-16181
18	P-17701	P-17701	P-17701	P-17701	P-22843	P-22843
23	P-13688	P-13688	P-13688	P-13688	P-13688	P-13688
25	P-3316	P-3316	P-3316	P-3316	P-3316	P-3316
26	P-6592	P-6592	P-6592	P-6592	P-6592	P-6592
31	P-17700	P-17700	P-17700	P-22532	P-22532	P-22532
32	P-285	P-285	P-285	P-285	P-285	P-285
41	P-6082	P-6082	P-6082	P-22400	P-22400	P-22400
42	P-16216	P-16216	P-16216	P-22538	P-22538	P-22538
43	P-16126	P-16126	P-16126	P-22098	P-22098	P-22098
44	P-16665	P-16665	P-16665	P-16665	P-16665	P-16665
	Nos. 52-64	**Nos. 52-64**	**Nos. 52-64**	**Nos. 52-56**	**Nos. 52-56**	**Nos. 52-56**
46	P-16195	P-16195	P-16195	P-16195	P-16195	P-16195
51	P-18751	P-18751	P-18751	P-18751	P-18751	P-18751
52	P-18752	P-18752	P-18752	P-18752	P-18752	P-18752
53	P-10750	P-10750	P-10750	P-10750	P-10750	P-10750
54	P-15108	P-15108	P-15108	P-15108	P-15108	P-15108
55	P-6387	P-6387	P-6387	P-6387	P-6387	P-6387
56	P-16194—**No. 52**	P-17901—**No. 52**	P-17901—**No. 52**	P-16194—**No. 52**	P-17901—**No. 52**	P-16194—**No. 55**
57	P-14355	P-14355	P-14355	P-14355	P-14355	P-14355
58	P-13960	P-13960	P-13960	P-13960	P-13960	P-13960
	2 No. 50	**2 No. 50**	**2 No. 50**	**2 No. 50**	**2 No. 50**	**2 No. 50**
59	P-16067	P-16067	P-16067	P-16067	P-16067	P-16067
60	P-16203	P-16203	P-16203	P-16203	P-16203	P-16203
61	P-22825	P-22825	P-22825	P-22825	P-22825	P-22825
62	P-18749	P-18749	P-18749	P-18749	P-18749	P-18749
63	P-16200	P-16200	P-16200	P-16200	P-16200	P-16200
64	P-16199	P-16199	P-16199	P-16199	P-16199	P-16199
65	P-16198	P-16198	P-16198	P-16198	P-16198	P-16198
66	P-16202	P-16202	P-16202	P-16202	P-16202	P-16202
67	P-15390	P-15390	P-15390	P-15390	P-15390	P-15390
68	P-23013	P-23013	P-23013	P-23013	P-23013	P-23013
69	P-16201	P-16201	P-16201	P-16201	P-16201	P-16201
70	P-6855	P-6855	P-6855	P-6855	P-6855	P-6855
71	P-10666	P-10666	P-10666	P-10666	P-10666	P-10666
72	P-23179	P-23179	P-23179	P-23179	P-23179	P-23179
73	P-16498	P-16498	P-16499	P-16498	P-16498	P-16498
	Continued on Page 6.	Continued on Page 6.	Continued on Page 6.	Continued on Page 6.	Continued on Page 6.	Continued on Page 6.

*Parts Not Illustrated.

Printed in U. S. A.

STROMBERG CARBURETOR

Key No.	A-16045 DDR-5 **G.M.T.C.** **1932 MODEL Z-250** Sym. No. 052369 Code No. 23-1 5″ x 6″—6. Own 707	A-16815 DDR-5 **G.M.T.C.** **1932 MODEL V-225** Sym. No. 052406 Code No. 23-4 4-1/2″ x 5-1/2″—6, Own 525	A-17605 DDR-5 **G.M.T.C.** **1934 MODEL** Sym. No. 053026 Code No. 23-13 4-1/4″ x 5-1/2″—6, Own 468	A-17635 DDR-5 **G.M.T.C.—1936** **MODELS 719, 734, 740** Sym. No. 053959 Code No. 23-39A 5″ x 6″—6 Cyl. Own 707	A-17655 DDR-5 **G.M.T.C.—1936** **MODELS 720, 735** Sym. No. 069438 Code No. 23-45 5″ x 6″—6, Own 707	A-17675 DDR-5 **YELLOW COACH** **1937 MODEL 732** Sym. No. 2050087 Code No. 23-58 5″ x 6″—6, Own 707
74	P-6664	P-6664	P-6664	P-6664	P-6664	P-6664
75	P-15606	P-15606	P-15606	P-15606	P-15606	P-15606
76	P-7098	P-7098	P-7098	P-7098	P-7098	P-7098
77	P-12780	P-12780	P-12780	P-12780	P-12780	P-12780
78	P-6406	P-6406	P-6406	P-6406	P-6406	P-6406
79	P-16193	P-16193	P-16193	P-16193	P-16193	P-16193
80	P-15505	P-15505	P-15505	P-15505	P-15505	P-15505
81	P-16192	P-16192	P-16192	P-16192	P-16192	P-16192
82	P-16320—**No. 68**	P-16527—**No. 68**	P-16527—**No. 60**	P-16527—**No. 68**	P-16527—**No. 68**	P-16527—**No. 68**
83-L	P-23689—**1-1/2″**	P-23689—**1-3/8″**	P-23689—**1-3/8″**	P-23689—**1-1/2″**	P-23689—**1-3/8″**	P-23689—**1-1/2″**
83-R	P-23690—**1-1/2″**	P-23690—**1-3/8″**	P-23690—**1-3/8″**	P-23690—**1-1/2″**	P-23690—**1-3/8″**	P-23690—**1-1/2″**
84	P-16184	P-16184	P-16184	P-16184	P-16184	P-16184
85	P-23691	P-23691	P-23691	P-23691	P-23691	P-23691
86	P-14374	P-14374	P-14374	P-14374	P-14374	P-14374
87	P-16223	P-16223	P-16223	P-22371	P-22371	P-22371
	P-22375	P-22375	P-22375	P-15817	P-15817	P-15817
88	P-6668	P-6668	P-6668	P-6668	P-6668	P-6668
89	P-46	P-46	P-46	P-46	P-46	P-46
90	P-16186	P-16186	P-16186	P-16186	P-16186	P-16186
91	P-18744	P-18744	P-18744	P-18744	P-18744	P-18744
92	P-18745	P-18745	P-18745	P-18745	P-18745	P-18745
	P-14649	P-14649	P-14649	P-14649	P-14649	P-14649
	P-14650	P-14650	P-14650	P-14650	P-14650	P-14650
93	P-79	P-79	P-79	P-79	P-79	P-79
94	P-14203	P-14203	P-14203	P-14203	P-14203	P-14203
95	P-16215	P-16215	P-16215	P-16215	P-16215	P-16215
96	P-13150	P-13150	P-13150	P-13150	P-13150	P-13150
97	P-3157	P-3157	P-3157	P-3157	P-3157	P-3157
98	P-15554	P-15554	P-15554	P-15554	P-15554	P-15554
99	P-15745	P-15745	P-15745	P-15745	P-15745	P-15745
100	P-16226	P-16226	P-16226	P-16226	P-16226	P-16226
101	P-6877	P-6877	P-6877	P-6877	P-6877	P-6877
102	P-1693	P-1693	P-1693	P-1693	P-1693	P-1693
103	P-9891	P-9891	P-9891	P-9891	P-9891	P-9891
104	P-22071	P-22071	P-22071	P-22071	P-22071	P-22071
*105						
*106						
*107						
*108						
*109				P-22399	P-22399	P-22399
*110				P-16639	P-16639	P-16639
*111				P-22329	P-22329	P-22329
*112				P-21700	P-21700	P-21700
	SETTINGS Fuel Pressure—2 lbs. Fuel Level—15/16″. Throttle Valve Location—Edge of throttle valve to be Flush + — .004″ from No. 52 idle hole. Pump Capacity — 44-54 c.c. per 10 strokes. 9/16″ pump travel.	SETTINGS Fuel Pressure—2 lbs. Fuel Level—15/16″. Throttle Valve Location—Edge of throttle valve to be Flush + — .004″ from No. 52 idle hole. Pump Capacity—70 c.c. per 10 strokes. Full travel.	SETTINGS Fuel Pressure—2 lbs. Fuel Level—15/16″. Throttle Valve Location—Edge of throttle valve to be Flush + — .004″ from No. 52 idle hole. Pump Capacity—65 c.c. per 10 strokes. Full travel.	SETTINGS Fuel Pressure—2 lbs. Fuel Level—1-1/16″—1-1/8″. Throttle Valve Location—Edge of throttle valve to be Flush + — .002″ from No. 52 idle hole.	SETTINGS Fuel Pressure—2 lbs. Fuel Level—1-1/16″—1-1/8″. Throttle Valve Location—Edge of throttle valve to be Flush + — .002″ from No. 52 idle hole	SETTINGS Fuel Pressure—2 lbs. Fuel Level—1-1/16″—1-1/8″. Throttle Valve Location—Edge of throttle valve to be Flush + — .002″ from No. 52 idle hole.

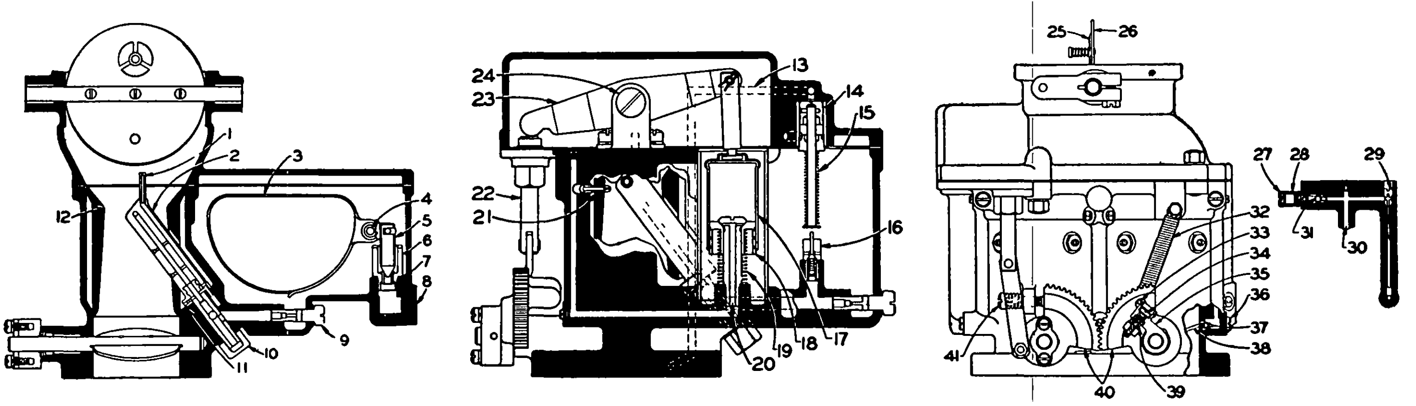
*Parts Not Illustrated.

STROMBERG DDR-55 CARBURETOR

FOR STROMBERG NUMBER, CODE NUMBER, MANUFACTURER'S SYMBOL NUMBER, MODEL, BORE AND STROKE INFORMATION SEE PARTS PAGE

SIZE: 2" DUAL D.D. 4-HOLE FLANGE

G.M.T.C. and Yellow Coach



1. High Speed Bleeder
2. Main Discharge Jet
3. Float
4. Float Fulcrum Pin
5. Float Needle Valve
6. Float Needle Valve Seat
7. Float Seat Gasket
8. Gasoline Inlet
9. Main Metering Jet
10. Main Discharge Jet Plug
11. Main Discharge Jet Gasket
12. Venturi
13. Vacuum Channel
14. Vacuum Piston
15. Vacuum Piston Spring
16. Power By Pass Jet
17. Accelerating Pump Sleeve
18. Accelerating Pump Piston
19. Pump Piston Spring
20. Pump Piston Valve
21. Pump Discharge Nozzle
22. Pump Link
23. Pump Fulcrum Arm
24. Pump Fulcrum Screw
25. Choke Relief Valve
26. Choke Valve
27. Idle Needle Valve
28. Idle Needle Valve Spring
29. Idle Tube
30. Idle Channel
31. Idle Air Bleeder
32. Throttle Return Spring
33. Synchro Screw Cot Pin
34. Synchronizing Screw
35. Synchronizing Lever
36. Idle Discharge Plug
37. Idle Discharge Holes
38. Throttle Valve
39. Synchro Screw Spring
40. Throttle Gears
41. Throttle Stop Screw

Main Metering System—

Fuel enters the carburetor at gasoline inlet "8" through the float needle valve and seat "5" and "6" into the float bowl where it is maintained at constant level by float "3". Air enters the carburetor through the air entrance at top and places suction on the main discharge jet "2" or idle discharge holes, depending on the amount of throttle opening. The main metering jets "9" are of the fixed type. They control the flow of gas during the intermediate or part throttle position From the metering jet the fuel passes into the main discharge jet '2" where it is mixed with air from high speed bleeder "1" and flows into the carburetor barrel down to the intake manifold. All jets of the fixed type are calibrated at the factory to supply the correct mixture for normal operating conditions and should not be changed without special instructions from the factory. The size of the jet is stamped on the outer face in thousandths of an inch.

Maximum Power—

For maximum power or high speed running a richer mixture is required than that necessary for normal throttle opening. Operation of the power by-pass jet is controlled by manifold vacuum with channel "13" being open to the manifold below the throttle valves On closed throttle, with a high manifold vacuum, piston "14" is raised up and as the throttle is opened manifold vacuum decreases to the point where piston spring "15" has more force, moving the assembly downward and opening power by-pass jet "16" which allows fuel to flow through the power valve in addition to that supplied by the main metering jet. The metering orifice of the by-pass jet is located in the cup at the bottom.

Acceleration—

For smooth, rapid acceleration and flexibility it is necessary to supply momentarily an extra amount of fuel when throttle is opened. The accelerating pump is directly connected to the throttle by linkage "22" and fulcrum arm "23". As the throttle is opened pump sleeve "17" is moved downward compressing the fuel in its chamber and forcing piston "18" off its seat so that fuel passes through valve "20" and is discharged through nozzles "21" into each barrel. When the throttle is held in a steady position spring "19" returns piston "18" to its seat and cuts off the fuel supply.

Idle Metering and Adjustment—

When adjusting the idle needle valves have the engine well warmed up so that the intake manifold is at least warm to the hand. Slow down the engine gradually until a minimum idling speed is reached. Fuel for idle speeds is taken through idle tube "29". Air is fed through bleeder hole "31" through needle valve adjustment and mixed with the fuel which passes down channel "30" to be discharged through idle holes "37". On "curb idle" or closed throttle position fuel is drawn only from the lower idle discharge hole and as the throttle is opened for increased engine speed the upper idle discharge hole is exposed to suction and fuel is also taken from it Adjust one barrel at a time. Idle needle valves "27" control the air and turning "in" the adjustment gives a richer mixture and "out" a leaner mixture. Turn one idle adjustment out slowly until the engine begins to "lag" or run irregular, then slowly turn in until the engine begins to "roll"; finally, very slowly turn out the adjustment again just enough so that the engine runs smoothly for this throttle opening. Do the same with the other idle needle valve It may be necessary after making the adjustments to cut down or increase the engine speed slightly which can be done by adjusting throttle stop screw "41". If it is not possible to get satisfactory idle adjustment, remove plug "36" and make certain that idle discharge holes are open.

Synchronizing Throttle Valves—

It is very essential that the throttle valves have exactly the same amount of opening to obtain smooth performance. To accomplish this synchronizing lever "35" is provided on the gear sector. To synchronize the throttle valves, carburetor must be removed from the manifold and proceed as follows—Turn out stop screw "41" with sufficient clearance so that both throttle valves close completely. Place a 3/16" wide strip of tissue paper between the throttle valve and body of both barrels. Draw the strips from the barrels to see that both have approximately the same amount of resistance. If clearance needs to be adjusted, it can be done by removing cotter pin "33" and adjusting screw "34" so that both barrels are closed.

Fuel Level—

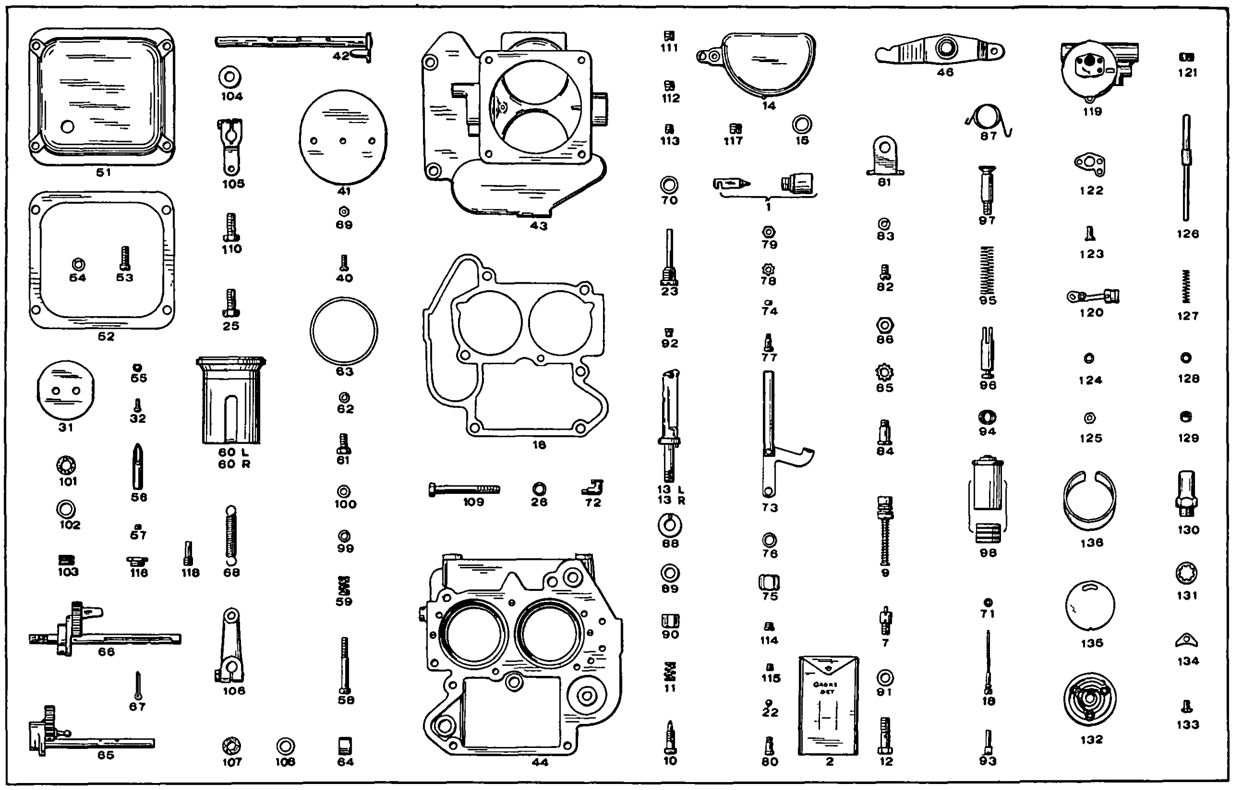
The fuel level in the float chamber is set at the factory at 1-3/32" below the top surface of the float chamber. It is not necessary to reset the float unless someone has tampered with it or the carburetor has been handled roughly.

NOTE: When ordering venturi tubes, high speed bleeders, metering jets main discharge jet, or by pass jets etc , specify the size required, and always state type of carburetor and serial number as well as model and make of car for which part is intended

MOTOR TUNE-UP DATA

Due to the number of Carburetor Specifications for various engines covered herein it is impossible to give Standard Motor Tune-up Data.

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Key No.	Part Name	
1	Float Needle Valve and Seat	(NOT VAR.)
2	Complete Gasket Set	
7	Power By Pass Jet	(VAR.)
9	Vacuum Power Piston	
10	Idle Needle Valve	
11	Spring—Idle Needle Valve	
12	Metering Jet	(VAR)
13 L	Main Discharge Jet (Left)	(NOT VAR)
13 R	Main Discharge Jet (Right)	(NOT VAR)
14	Float with Lever	
15	Gasket—Float Needle Valve Seat	
16	Gasket—Air Horn	
18	Idle Tube	
22	Lead Ball	
23	Fulcrum Pin—Float Lever	
25	Screw—Air Horn Attaching	
26	Lockwasher—Air Horn Attaching Screw	
31	Throttle Valve	
32	Screw—Throttle Valve Attaching	
40	Screw—Choke Valve Attach	
41	Choke Valve	
42	Choke Stem and Lever	
43	Assy —Air Horn	
*44	Assy —Main Body (complete with idle holes throttle stem and Valves)	(VAR)
46	Pump Lever with Bearing	
51	Cover—Throttle Gear Box	
52	Gasket—Throttle Gear Box Cover	
53	Screw—Throttle Gear Box Cover Attach	
54	Lockwasher—Throttle Gear Box Cover Attach Screw	
55	Lockwasher—Throttle Valve Attach Screw	
56	Vent Tube	
57	Set Screw—Vent Tube	
58	Screw—Idle Adj	
59	Spring—Idle Adj Screw	
60-L	Venturi Tube (Left)	(VAR)
60 R	Venturi Tube (Right)	(VAR)
61	Set Screw—Venturi Tube	
62	Lockwasher—Venturi Tube Set Screw	
63	Gasket—Venturi Tube	
64	Bearing—Thro Stem Pump Lever and Choke Stem	
65	Throttle Gear and Stem (Left)	
66	Throttle Gear and Stem (Right)	
67	Cotter Pin—Thro Gear Adj Lever	
68	Spring—Thro Valve Return	
69	Lock Nut—Thro Valve Attach Screw	
70	Gasket—Float Lever Fulcrum Screw	
71	Gasket—Idle Tube	
72	Oiler—Push Rod	
73	Push Rod with Link	
74	Bushing—Push Rod Link Fulcrum Screw	
75	Nut—Packing—Push Rod	
76	Felt Packing—Nut—Push Rod	
77	Screw—Push Rod Link Fulcrum	
78	Lockwasher—Push Rod and Piston Link Fulcrum Screw	
79	Nut—Push Rod and Piston Link Fulcrum Screw	
80	Screw—Piston Link Fulcrum	
81	Bracket—Pump Lever	
82	Screw—Pump Lever Bracket Attach	
83	Lockwasher—Pump Lever Bracket Attach Screw	
84	Screw—Pump Lever Fulcrum	
85	Lockwasher—Pump Lever Fulcrum Screw	
86	Nut—Pump Lever Fulcrum Screw	
87	Torsion Spring—Pump Lever	
88	Gasket—Main Disch Jet	
89	Gasket—Main Disch Jet Nut	
90	Nut—Main Disch Jet	
91	Gasket—Metering Jet	
92	High Speed Bleeder	(VAR)
93	Pump Discharge Nozzle	(VAR)
94	Spring—Pump Piston Sleeve Link	
95	Spring—Pump Piston	
96	Link—Pump Piston Sleeve	
97	Pump Valve	(VAR.)
98	Pump Sleeve and Piston	
99	Washer—Slow Idle Adj Screw	
100	Felt Packing—Slow Idle Adj Screw	
101	Felt Packing—Thro Stem Seal	
102	Washer—Thro Stem Seal	
103	Spring—Throttle Stem Seal	
104	Washer—Choke Stem Seal	
105	Choke Lever	
106	Throttle Lever	
107	Felt Washer	
108	Washer—Steel	
109	Cap Screw—Air Horn Attach	
110	Screw—Air Horn Attach	
111	Plug—Pump Disch and Idle Channel	
112	Plug—Vacuum Suction Hole	
113	Plug—Primer Hole	
114	Plug—Idle Disch and Fuel Level Sight	
115	Plug—Idle Channel	
116	Nut—Throttle Stem	
117	Plug—M Body and Air Horn	
118	Pin—Choke Valve Stop	
119	Auto Choke Housing	
120	Vacuum Piston and Link	
121	Plug—Vacuum Piston Channel	
122	Gasket—Auto Choke Housing	
123	Screw—Auto Choke Housing Attach	
124	Lockwasher—Vacuum Piston Attach Nut	
125	Nut—Vacuum Piston Attach	
126	Rod—Wide Open Kick	
127	Spring—Wide Open Kick Rod	
128	Washer—Wide Open Kick Rod Spring	
129	Washer—Wide Open Kick Rod Spring Felt	
130	Bushing—Wide Open Kick Rod Guide	
131	Lockwasher—Wide Open Guide Bushing	
132	Assy —Thermostat and Elect Unit	
133	Screw—Electric Unit Attach	
134	Washer—Electric Unit Attach Screw	
135	Plate—Insulator	
136	Insulator—Cork	

***Note**—Complete Service Assembly.

BENDIX PRODUCTS DIVISION

SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

Printed in U S A

A-17755 DDR-55
G.M.T.C. YELLOW COACH
1939—MODEL "740"

Symbol No. 2090741
Code No. 23-79
5" x 6"—6 cyl. Own 707

KEY NO.		KEY NO.	
1	P-23044—.196"	88	P-16192
2	382400	89	P-15505
7	P-15405—**.046"**	90	P-16193
9	P-16217	91	P-6855
10	P-23161	92	P-16179—**No. 68**
11	P-23162	93	P-17901—**No. 52**
12	P-15384—**.064"**	94	P-16203
13-L	P-22541—**No. 34**	95	P-14355
13-R	P-22540—**No. 34**	96	P-23008
14	P-18056	97	P-13960—**No. 50**
15	P-14427	98	P-16067
16	P-16181	99	P-15344
18	P-23557—**No. 70**	100	P-16089
22	P-18772	101	P-8589
23	P-13688	102	P-21411
25	P-3316	103	P-13850
26	P-6592	104	P-23040
31	P-23180	105	P-22371
32	P-285	106	P-23090
40	P-22399	107	P-15070
41	P-24526	108	P-21411
42	P-24520	109	P-6877
43	P-24583	110	P-16879
44	P-24582—**No. 54-56**	111	P-12780
46	P-23009	112	P-6387
51	P-23041	113	P-8387
52	P-23042	114	P-6406
53	P-13041	115	P-7098
54	P-3157	116	P-23743
55	P-1693	117	P-14374
56	P-16498	118	P-22329
57	P-23179	119	P-24524
58	P-23024	120	P-24113
59	P-23177	121	P-23158
60-L	P-23689—**1-3/8"**	122	P-24523
60-R	P-23690—**1-3/8"**	123	P-24585
61	P-23691	124	P-15875
62	P-3157	125	P-16571
63	P-16184	126	P-24534
64	P-23005	127	P-24533
65	P-23031	128	P-24532
66	P-23028	129	P-24531
67	P-79	130	P-24530
68	P-15745	131	76-S-29
69	P-16639	132	P-24527
70	P-10666	133	P-21596
71	P-22071	134	P-24179
72	P-23043	135	P-23051
73	P-24584	136	P-23052
74	P-18752		
75	P-23022		
76	P-23023		
77	P-23021		
78	P-23017		
79	P-10750		
80	P-23016		
81	P-23015		
82	P-15606		
83	P-6664		
84	P-23014		
85	P-9891		
86	P-16200		
87	P-23013		

SETTINGS

Fuel Level—1-3/32".
Fuel Pressure—2 lbs.
Throttle Valve Location—Lower lip of throttle valve to be **Flush** + — .002" from No. 54 idle hole.
Pump Capacity—**44-54** c.c. per 10 strokes with 9/16" travel of piston.
Deflooder Adjustment — With throttle valve held in wide open position choke valve should be open from .343" to .375" or from a **11/32"** drill to a **3/8"** drill.
Thermostat Setting—Set thermostat **8** notches rich.

A-17765 DDR-55
G.M.T.C. YELLOW COACH
1939—MODEL 1210

Symbol No. 2090742
Code No. 23-80
5" x 6"—6 cyl. Own 707

KEY NO.		KEY NO.	
1	P-23044—.196"	88	P-16192
2	382400	89	P-15505
7	P-15405—**.056"**	90	P-16193
9	P-16217	91	P-6855
10	P-23161	92	P-16179—**No. 68**
11	P-23162	93	P-17901—**No. 55**
12	P-15384—**.074"**	94	P-16203
13-L	P-22541—**No. 34**	95	P-14355
13-R	P-22540—**No. 34**	96	P-23008
14	P-18056	97	P-13960—**No. 50**
15	P-14427	98	P-16067
16	P-16181	99	P-15344
18	P-23557—**No. 70**	100	P-17089
22	P-18772	101	P-8589
23	P-13688	102	P-21411
25	P-3316	103	P-13850
26	P-6592	104	P-23040
31	P-23180	105	P-22371
32	P-285	106	P-23090
40	P-22399	107	P-15070
41	P-24526	108	P-21411
42	P-24520	109	P-6877
43	P-24583	110	P-16879
44	P-24582—**No. 54-56**	111	P-12780
46	P-23009	112	P-6387
51	P-23041	113	P-8387
52	P-23042	114	P-6406
53	P-13041	115	P-7098
54	P-3157	116	P-23743
55	P-1693	117	P-14374
56	P-16498	118	P-22329
57	P-23179	119	P-24524
58	P-23024	120	P-24113
59	P-23177	121	P-23158
60-L	P-23689—**1-1/2"**	122	P-24523
60-R	P-23690—**1-1/2"**	123	P-24585
61	P-23691	124	P-15875
62	P-3157	125	P-16571
63	P-16184	126	P-24534
64	P-23005	127	P-24533
65	P-23031	128	P-24532
66	P-23028	129	P-24531
67	P-79	130	P-24530
68	P-15745	131	76-S-29
69	P-16639	132	P-24527
70	P-10666	133	P-21596
71	P-22071	134	P-24179
72	P-23043	135	P-23051
73	P-24584	136	P-23052
74	P-18752		
75	P-23022		
76	P-23023		
77	P-23021		
78	P-23017		
79	P-10750		
80	P-23016		
81	P-23015		
82	P-15606		
83	P-6664		
84	P-23014		
85	P-9891		
86	P-16200		
87	P-23013		

SETTINGS

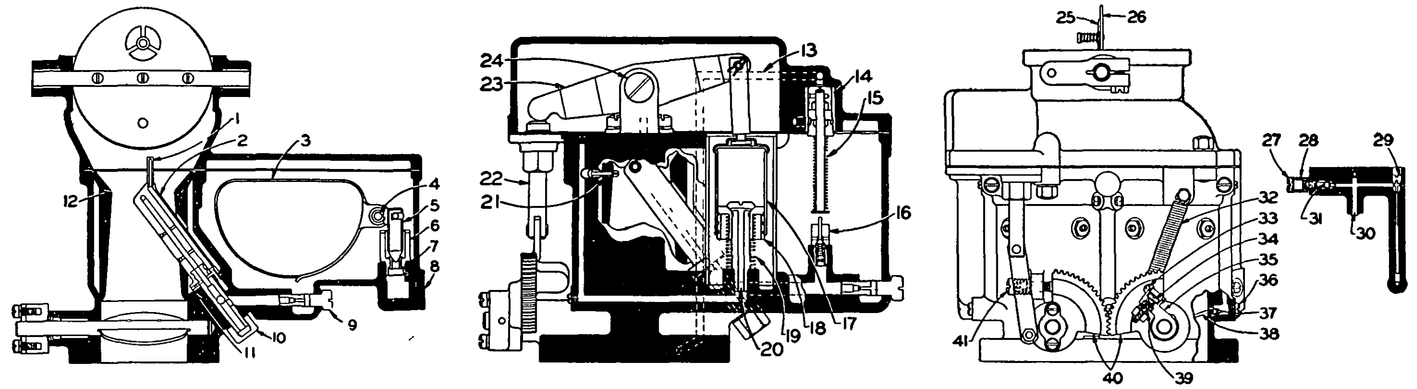
Fuel Level—1-3/32".
Fuel Pressure—2 lbs.
Throttle Valve Location—Lower lip of throttle valve to be **Flush** + — .002" from No. 54 idle hole.
Pump Capacity—**44-54** c.c. per 10 strokes with 9/16" travel of piston.
Deflooder Adjustment — With throttle valve held in wide open position choke valve should be open from .343" to .375" or from a **11/32"** drill to a **3/8"** drill.
Thermostat Setting—Set thermostat **8** notches rich.

STROMBERG DDR-55 CARBURETOR

FOR STROMBERG NUMBER, CODE NUMBER, MANUFACTURER'S SYMBOL NUMBER, MODEL, BORE AND STROKE INFORMATION SEE PARTS PAGE

SIZE: 2" DUAL D.D. 4-HOLE FLANGE

G.M.T.C. and Yellow Coach



1	High Speed Bleeder
2	Main Discharge Jet
3	Float
4	Float Fulcrum Pin
5	Float Needle Valve
6	Float Needle Valve Seat
7.	Float Seat Gasket
8	Gasoline Inlet
9	Main Metering Jet
10	Main Discharge Jet Plug
11	Main Discharge Jet Gasket
12	Venturi
13	Vacuum Channel
14	Vacuum Piston
15	Vacuum Piston Spring
16	Power By Pass Jet
17	Accelerating Pump Sleeve
18	Accelerating Pump Piston
19	Pump Piston Spring
20	Pump Piston Valve
21	Pump Discharge Nozzle
22	Pump Link
23	Pump Fulcrum Arm
24	Pump Fulcrum Screw
25	Choke Relief Valve
26	Choke Valve
27	Idle Needle Valve
28	Idle Needle Valve Spring
29	Idle Tube
30	Idle Channel
31	Idle Air Bleeder
32	Throttle Return Spring
33	Synchro Screw Cot Pin
34	Synchronizing Screw
35	Synchronizing Lever
36	Idle Discharge Plug
37	Idle Discharge Holes
38	Throttle Valve
39	Synchro Screw Spring
40	Throttle Gears
41	Throttle Stop Screw

Main Metering System—

Fuel enters the carburetor at gasoline inlet "8" through the float needle valve and seat "5" and "6" into the float bowl where it is maintained at constant level by float "3" Air enters the carburetor through the air entrance at top and places suction on the main discharge jet "2" or idle discharge holes, depending on the amount of throttle opening The main metering jets "9" are of the fixed type. They control the flow of gas during the intermediate or part throttle position From the metering jet the fuel passes into the main discharge jet "2" where it is mixed with air from high speed bleeder "1" and flows into the carburetor barrel down to the intake manifold All jets of the fixed type are calibrated at the factory to supply the correct mixture for normal operating conditions and should not be changed without special instructions from the factory The size of the jet is stamped on the outer face in thousandths of an inch.

Maximum Power—

For maximum power or high speed running a richer mixture is required than that necessary for normal throttle opening Operation of the power by pass jet is controlled by manifold vacuum with channel "13" being open to the manifold below the throttle valves On closed throttle, with a high manifold vacuum, piston "14" is raised up and as the throttle is opened manifold vacuum decreases to the point where piston spring "15" has more force, moving the assembly downward and opening power by-pass jet "16" which allows fuel to flow through the power valve in addition to that supplied by the main metering jet The metering orifice of the by-pass jet is located in the cup at the bottom

Acceleration—

For smooth, rapid acceleration and flexibility it is necessary to supply momentarily an extra amount of fuel when throttle is opened The accelerating pump is directly connected to the throttle by linkage "22" and fulcrum arm "23". As the throttle is opened pump sleeve "17" is moved downward compressing the fuel in its chamber and forcing piston "18" off its seat so that fuel passes through valve "20" and is discharged through nozzles "21" into each barrel When the throttle is held in a steady position spring "19" returns piston "18" to its seat and cuts off the fuel supply.

Idle Metering and Adjustment—

When adjusting the idle needle valves have the engine well warmed up so that the intake manifold is at least warm to the hand. Slow down the engine gradually until a minimum idling speed is reached Fuel for idle speeds is taken through idle tube "29". Air is fed through bleeder hole "31" through needle valve adjustment and mixed with the fuel which passes down channel "30" to be discharged through idle holes "37". On "curb idle" or closed throttle position fuel is drawn only from the lower idle discharge hole and as the throttle is opened for increased engine speed the upper idle discharge hole is exposed to suction and fuel is also taken from it Adjust one barrel at a time Idle needle valves "27" control the air and turning "in" the adjustment gives a richer mixture and "out" a leaner mixture Turn one idle adjustment out slowly until the engine begins to "lag" or run irregular, then slowly turn in until the engine begins to "roll"; finally, very slowly turn out the adjustment again just enough so that the engine runs smoothly for this throttle opening Do the same with the other idle needle valve It may be necessary after making the adjustments to cut down or increase the engine speed slightly which can be done by adjusting throttle stop screw "41" If it is not possible to get satisfactory idle adjustment, remove plug "36" and make certain that idle discharge holes are open.

Synchronizing Throttle Valves—

It is very essential that the throttle valves have exactly the same amount of opening to obtain smooth performance. To accomplish this synchronizing lever "35" is provided on the gear sector. To synchronize the throttle valves, carburetor must be removed from the manifold and proceed as follows —Turn out stop screw "41" with sufficient clearance so that both throttle valves close completely. Place a 3/16" wide strip of tissue paper between the throttle valve and body of both barrels. Draw the strips from the barrels to see that both have approximately the same amount of resistance. If clearance needs to be adjusted, it can be done by removing cotter pin "33' and adjusting screw "34" so that both barrels are closed.

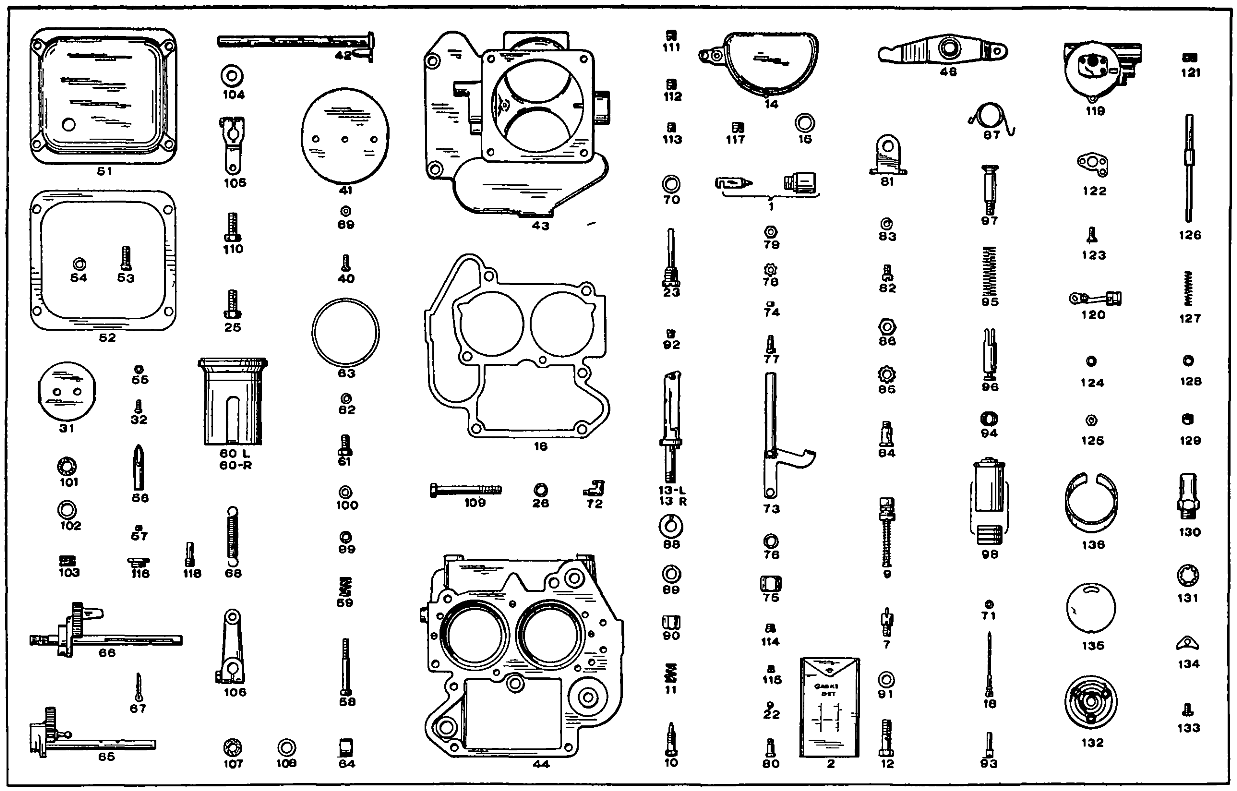
Fuel Level—

The fuel level in the float chamber is set at the factory at 1-3/32" below the top surface of the float chamber. It is not necessary to reset the float unless someone has tampered with it or the carburetor has been handled roughly.

NOTE. When ordering venturi tubes high speed bleeders, metering jets main discharge jet or by pass jets etc, specify the size required and always state type of carburetor and serial number as well as model and make of car for which part is intended.

MOTOR TUNE-UP DATA

Due to the number of Carburetor Specifications for various engines covered herein it is impossible to give Standard Motor Tune-up Data.



SERVICE REPLACEMENT PARTS LIST

Key No.	Part Name	
1	Float Needle Valve and Seat	(NOT VAR)
2	Complete Gasket Set	
7	Power By Pass Jet	(VAR)
9	Vacuum Power Piston	
10	Idle Needle Valve	
11	Spring—Idle Needle Valve	
12	Metering Jet	(VAR)
13 L	Main Discharge Jet (Left)	(NOT VAR)
13 R	Main Discharge Jet (Right)	(NOT VAR)
14	Float with Lever	
15	Gasket—Float Needle Valve Seat	
16	Gasket—Air Horn	
18	Idle Tube	
22	Lead Ball	
23	Fulcrum Pin—Float Lever	
25	Screw—Air Horn Attaching	
26	Lockwasher—Air Horn Attaching Screw	
31	Throttle Valve	
32	Screw—Throttle Valve Attaching	
40	Screw—Choke Valve Attach	
41	Choke Valve	
42	Choke Stem and Lever	
43	Assy —Air Horn	
*44	Assy —Main Body (complete with idle holes throttle stem and Valves)	(VAR)
46	Pump Lever with Bearing	
51	Cover—Throttle Gear Box	
52	Gasket—Throttle Gear Box Cover	
53	Screw—Throttle Gear Box Cover Attach	
54	Lockwasher—Throttle Gear Box Cover Attach Screw	
55	Lockwasher—Throttle Valve Attach. Screw	
56	Vent Tube	
57	Set Screw—Vent Tube	
58	Screw—Idle Adj	
59	Spring—Idle Adj Screw	
60 L	Venturi Tube (Left)	(VAR)
60 R	Venturi Tube (Right)	(VAR)
61	Set Screw—Venturi Tube	
62	Lockwasher—Venturi Tube Set Screw	
63	Gasket—Venturi Tube	
64	Bearing—Thro Stem Pump Lever and Choke Stem	
65	Throttle Gear and Stem (Left)	
66	Throttle Gear and Stem (Right)	
67	Cotter Pin—Thro Gear Adj Lever	
68	Spring—Thro Valve Return	
69	Lock Nut—Thro Valve Attach Screw	
70	Gasket—Float Lever Fulcrum Screw	
71	Gasket—Idle Tube	
72	Oiler—Push Rod	
73	Push Rod with Link	
74	Bushing—Push Rod Link Fulcrum Screw	
75	Nut—Packing—Push Rod	
76	Felt Packing—Nut—Push Rod	
77	Screw—Push Rod Link Fulcrum	
78	Lockwasher—Push Rod and Piston Link Fulcrum Screw	
79	Nut—Push Rod and Piston Link Fulcrum Screw	
80	Screw—Piston Link Fulcrum	
81	Bracket—Pump Lever	
82	Screw—Pump Lever Bracket Attach	
83	Lockwasher—Pump Lever Bracket Attach Screw	
84	Screw—Pump Lever Fulcrum	
85	Lockwasher—Pump Lever Fulcrum Screw	
86	Nut—Pump Lever Fulcrum Screw	
87	Torsion Spring—Pump Lever	
88	Gasket—Main Disch Jet	
89	Gasket—Main Disch Jet Nut	
90	Nut—Main Disch Jet	
91	Gasket—Metering Jet	
92	High Speed Bleeder	(VAR)
93	Pump Discharge Nozzle	(VAR)
94	Spring—Pump Piston Sleeve Link	
95	Spring—Pump Piston	
96	Link—Pump Piston Sleeve	
97	Pump Valve	(VAR)
98	Pump Sleeve and Piston	
99	Washer—Slow Idle Adj Screw	
100	Felt Packing—Slow Idle Adj Screw	
101	Felt Packing—Thro Stem Seal	
102	Washer—Thro Stem Seal	
103	Spring—Throttle Stem Seal	
104	Washer—Choke Stem Seal	
105	Choke Lever	
106	Throttle Lever	
107	Felt Washer	
108	Washer—Steel	
109	Cap Screw—Air Horn Attach	
110	Screw—Air Horn Attach	
111	Plug—Pump Disch and Idle Channel	
112	Plug—Vacuum Suction Hole	
113	Plug—Primer Hole	
114	Plug—Idle Disch and Fuel Level Sight	
115	Plug—Idle Channel	
116	Nut—Throttle Stem	
117	Plug—M Body and Air Horn	
118	Pin—Choke Valve Stop	
119	Auto Choke Housing	
120	Vacuum Piston and Link	
121	Plug—Vacuum Piston Channel	
122	Gasket—Auto Choke Housing	
123	Screw—Auto Choke Housing Attach	
124	Lockwasher—Vacuum Piston Attach Nut	
125	Nut—Vacuum Piston Attach	
126	Rod—Wide Open Kick	
127	Spring—Wide Open Kick Rod	
128	Washer—Wide Open Kick Rod Spring	
129	Washer—Wide Open Kick Rod Spring Felt	
130	Bushing—Wide Open Kick Rod Guide	
131	Lockwasher—Wide Open Guide Bushing	
132	Assy —Thermostat and Elect Unit	
133	Screw—Electric Unit Attach	
134	Washer—Electric Unit Attach Screw	
135	Plate—Insulator	
136	Insulator—Cork	
137	Lockwasher—Piston Link Fulcrum Screw Nut (Not Illustrated)	
138	Sleeve Nut (Not Illustrated)	
139	Throttle Gear Tension Spring (Not Illustrated)	
140	Throttle Gear Tension Spring Anchor (Not Illustrated)	
141	Throttle Tension Spring Clip (Not Illustrated)	
142	Throttle Tension Spring Screw (Not Illustrated)	

***Note**—Complete Service Assembly.

BENDIX PRODUCTS DIVISION

SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

Printed in U S A

A-17755 DDR-55
G.M.T.C. YELLOW COACH
1939—MODEL "740"

Symbol No. 2090741
Code No. 23-79
5″ x 6″—6 cyl. Own 707

KEY NO.	
1	P-23044—.196″
2	382400
7	P-15405—**.046″**
9	P-16217
10	P-23161
11	P-23162
12	P-15384—**.064″**
13-L	P-22541—**No. 34**
13-R	P-22540—**No. 34**
14	P-18056
15	P-14427
16	P-16181
18	P-23557—**No. 70**
22	P-18772
23	P-13688
25	P-3316
26	P-6592
31	P-23180
32	P-285
40	P-22399
41	P-24526
42	P-24520
43	P-24583
44	P-24582—**No. 54-56**
46	P-23009
51	P-23041
52	P-23042
53	P-13041
54	P-3157
55	P-1693
56	P-16498
57	P-23179
58	P-23024
59	P-23177
60-L	P-23689—**1-3/8″**
60-R	P-23690—**1-3/8″**
61	P-23691
62	P-3157
63	P-16184
64	P-23005
65	P-23031
66	P-23028
67	P-79
68	P-15745
69	P-16639
70	P-10666
71	P-22071
72	P-23043
73	P-24584
74	P-18752
75	P-23022
76	P-23023
77	P-23021
78	P-23017
79	P-10750
80	P-23016
81	P-23015
82	P-15606
83	P-6664
84	P-23014
85	P-9891
86	P-16200
87	P-23013

KEY NO	
88	P-16192
89	P-15505
90	P-16193
91	P-6855
92	P-16179—**No. 68**
93	P-17901—**No. 52**
94	P-16203
95	P-14355
96	P-23008
97	P-13960—**No. 50**
98	P-16067
99	P-15344
100	P-16089
101	P-8589
102	P-21411
103	P-13850
104	P-23040
105	P-22371
106	P-23090
107	P-15070
108	P-21411
109	P-6877
110	P-16879
111	P-12780
112	P-6387
113	P-8387
114	P-6406
115	P-7098
116	P-23743
117	P-14374
118	P-22329
119	P-24524
120	P-24113
121	P-23158
122	P-24523
123	P-24585
124	P-15875
125	P-16571
126	P-24534
127	P-24533
128	P-24532
129	P-24531
130	P-24530
131	76-S-29
132	P-24527
133	P-21596
134	P-24179
135	P-23051
136	P-23052

SETTINGS

Fuel Level—1-3/32″.
Fuel Pressure—2 lbs
Throttle Valve Location—Lower lip of throttle valve to be **Flush** + — .002″ from No. 54 idle hole.
Pump Capacity—**44-54** c c per 10 strokes with 9/16″ travel of piston.
Deflooder Adjustment — With throttle valve held in wide open position choke valve should be open from .343″ to .375″ or from a **11/32″** drill to a **3/8″** drill.
Thermostat Setting—Set thermostat **8** notches rich.

A-17765 DDR-55
G.M.T.C. YELLOW COACH
1939—MODEL 1210

Symbol No. 2090742
Code No. 23-80
5″ x 6″—6 cyl. Own 707

KEY NO	
1	P-23044—.196″
2	382400
7	P-15405—**.056″**
9	P-16217
10	P-23161
11	P-23162
12	P-15384—**.074″**
13-L	P-22541—**No. 34**
13-R	P-22540—**No. 34**
14	P-18056
15	P-14427
16	P-16181
18	P-23557—**No. 70**
22	P-18772
23	P-13688
25	P-3316
26	P-6592
31	P-23180
32	P-285
40	P-22399
41	P-24526
42	P-24520
43	P 24583
44	P-24582—**No. 54-56**
46	P-23009
51	P-23041
52	P-23042
53	P-13041
54	P-3157
55	P-1693
56	P-16498
57	P-23179
58	P-23024
59	P-23177
60-L	P-23689—**1-1/2″**
60-R	P-23690—**1-1/2″**
61	P-23691
62	P-3157
63	P-16184
64	P-23005
65	P-23031
66	P-23028
67	P-79
68	P-15745
69	P-16639
70	P-10666
71	P-22071
72	P-23043
73	P-24584
74	P-18752
75	P-23022
76	P-23023
77	P-23021
78	P-23017
79	P-10750
80	P-23016
81	P-23015
82	P-15606
83	P-6664
84	P-23014
85	P-9891
86	P-16200
87	P-23013

KEY NO.	
88	P-16192
89	P-15505
90	P-16193
91	P-6855
92	P-16179—**No. 68**
93	P-17901—**No. 55**
94	P-16203
95	P-14355
96	P-23008
97	P-13960—**No. 50**
98	P-16067
99	P-15344
100	P-17089
101	P-8589
102	P-21411
103	P-13850
104	P-23040
105	P-22371
106	P-23090
107	P-15070
108	P-21411
109	P-6877
110	P-16879
111	P-12780
112	P-6387
113	P-8387
114	P-6406
115	P-7098
116	P-23743
117	P-14374
118	P-22329
119	P-24524
120	P-24113
121	P-23158
122	P-24523
123	P-24585
124	P-15875
125	P-16571
126	P-24534
127	P-24533
128	P-24532
129	P-24531
130	P-24530
131	76-S-29
132	P-24527
133	P-21596
134	P-24179
135	P-23051
136	P-23052

SETTINGS

Fuel Level—1-3/32″.
Fuel Pressure—2 lbs.
Throttle Valve Location—Lower lip of throttle valve to be **Flush** + — .002″ from No. 54 idle hole.
Pump Capacity—**44-54** c.c. per 10 strokes with 9/16″ travel of piston.
Deflooder Adjustment — With throttle valve held in wide open position choke valve should be open from .343″ to .375″ or from a **11/32″** drill to a **3/8″** drill.
Thermostat Setting—Set thermostat **8** notches rich.

380008 DDR-55
G.M.T.C. YELLOW COACH
1940—MODEL "740"
Symbol No. 2090453
Code No. 23-96
5" x 6"—6 cyl. Own 707

KEY NO.	
1	P-23044—.196"
2	382400
7	P-15405—**.046"**
9	P-16217
10	P-23161
11	P-23162
12	P-15384—**.064"**
13-L	P-22541—**No. 34**
13-R	P-22540—**No. 34**
14	P-18056
15	P-14427
16	P-16181
18	P-23557—**No. 70**
22	P-18772
23	P-13688
25	P-3316
26	P-6592
31	P-23180
32	P-285
40	P-22399
41	P-24526
42	P-24520
43	P-24583
44	382127—**No. 54-56**
46	P-23009
51	P-23041
52	P-23042
53	P-13041
54	P-3157
55	P-1693
56	P-16498
57	P-23179
58	P-23024
59	P-23177
60-L	P-23689—**1-3/8"**
60-R	P-23690—**1-3/8"**
61	P-23691
62	P-3157
63	P-16184
64	P-23005
65	382082
66	382084
67	P-79
68	382092
69	P-16639
70	P-10666
71	P-22071
72	P-23043
73	P-24584
74	P-18752
75	P-23022
76	P-23023
77	P-23021
78	P-23017
79	P-10750
80	382079
81	P-23015
82	P-15606
83	P-6664
84	P-23014
85	P-9891
86	P-16200
87	P-23013
88	P-16192
89	P-15505

KEY NO	
90	P-16193
91	P-6855
92	P-16179—**No. 68**
93	P-17901—**No. 52**
94	P-16203
95	P-14355
96	P-23008
97	P-13960—**No. 50**
98	P-16067
99	P-15344
100	P-16089
101	P-8589
102	P-21411
103	P-13850
104	P-23040
105	P-22371
106	P-23090
107	P-15070
108	P-21411
109	P-6877
110	P-16879
111	P-12780
112	P-6387
113	P 8387
114	P-6406
115	P-7098
116	P-23743
117	P-14374
118	P-22329
119	P-24524
120	P-24113
121	P-23158
122	P-24523
123	P-24585
124	P-15875
125	P-16571
126	P-24534
127	P-24533
128	P-24532
129	P-24531
130	P-24530
131	76-S-29
132	P-24527
133	P-21596
134	P-24179
135	P-23051
136	P-23052
137	76-S-65
138	382081
139	382090
140	382091
141	382093
142	382094

SETTINGS

Fuel Level—1-3/32".
Fuel Pressure—2 lbs.
Throttle Valve Location—Lower lip of throttle valve to be **Flush** + — .002" from No. 54 idle hole.
Pump Capacity—**44-54** c.c. per 10 strokes with 9/16" travel of piston.
Deflooder Adjustment—With throttle valve held in wide open position choke valve should be open from .343" to .375" or from a 11/32" drill to a 3/8" drill.
Thermostat Setting—Set thermostat **8** notches rich.

STROMBERG SFM-2 CARBURETOR

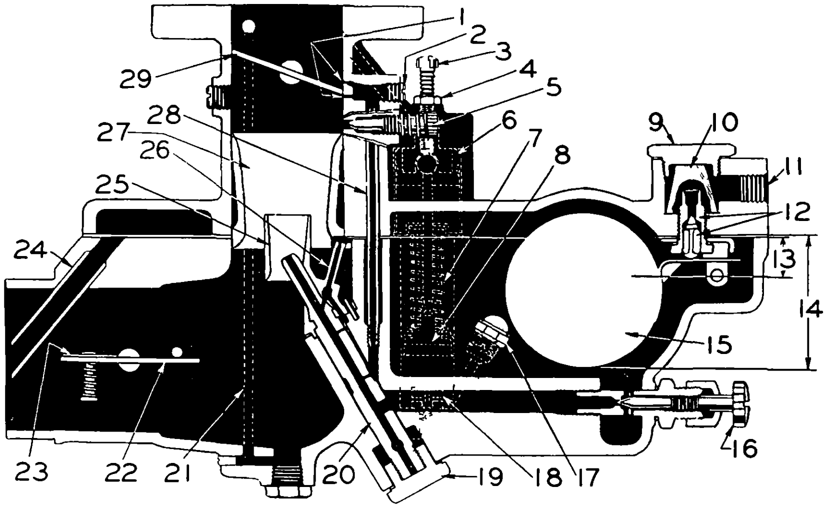
G.M.T.C.
and
Yellow Coach

FOR STROMBERG NUMBER, CODE NUMBER, MANUFACTURER'S SYMBOL NUMBER, MODEL, BORE AND STROKE INFORMATION SEE PARTS PAGE

SIZE 1-1/4" UPDRAFT S A E 2-11/16" FLANGE CENTER

PARTS ILLUSTRATED

1 Idle Discharge Holes
2 Idle Discharge Hole Plug
3 Pump Stroke Adjustment Screw
4 Pump Adjustment Screw Locknut
5 Idle Needle Valve
6 Pump Vacuum Piston
7 Pump Duration Spring
8 Pump Piston
9 Strainer Plug
10 Gasoline Strainer
11 Gasoline Inlet
12 Float Needle Valve and Seat
13 Fuel Level
14 Float Level
15 Float
16 Metering Jet
17 Pump Inlet Check Valve
18 By Pass Jet
19 Main Discharge Jet Plug
20 Main Discharge Jet
21 Drain By Pass Channel
22 Choke Valve
23 Choke Poppet Valve
24 Vent Tube
25 Auxiliary Venturi
26 High Speed Bleeder
27 Primary Venturi
28 Idle Tube
29 Throttle Valve



Main Metering System—
The main metering system controls the flow of the fuel during the intermediate speed of the engine Fuel enters the carburetor through the gasoline inlet (11) into the float chamber From here the gasoline passes through the metering jet (16) which controls the supply of fuel for the main metering system, to the main discharge jet (20) The main discharge jet delivers the fuel to the small venturi (25) (auxiliary venturi) where it is mixed with air and flows into the carburetor barrel The amount of air used in the mixture is controlled by the large venturi (27) (When replacing main discharge jet use new P-21372 gasket)

Power System—
For maximum power or higher speeds a richer mixture is needed This is accomplished by the power system During the intermediate speed of the engine sufficient fuel is furnished by the main metering jet However for hard pulls and wide open throttle this supply is not equivalent to the engine demands, therefore another valve comes into operation to supply this extra amount of gasoline needed While the engine runs at a moderate speed a certain amount of manifold vacuum is created This vacuum holds vacuum piston (6) in an up position but when the throttle is opened above normal to compensate for the extra power that may be needed from the engine the vacuum falls off accordingly and the vacuum piston drops until the pump piston (8), which is directly connected to the vacuum piston, comes in contact with and opens the valve in the by pass jet (18) The opening of this valve allows an additional amount of gasoline to enter the main discharge jet and enrichens the mixture This is known as the Power System

Accelerating System—
As explained above, the vacuum piston of the pump is held in an up position by the manifold vacuum created by the engine On sudden opening of the throttle the vacuum drops off very rapidly and the vacuum piston (6) is released When this occurs accelerating pump spring (7) forces pump piston (8) down which in turn forces a discharge of gasoline to be driven through the by pass jet (18) and out the main discharge jet This sudden surplus of fuel enrichens the mixture for the moment and furnishes the engine the extra power needed for fast acceleration The amount of discharge can be controlled by the adjustment screw (3) Turn screw IN to lessen, OUT to make greater

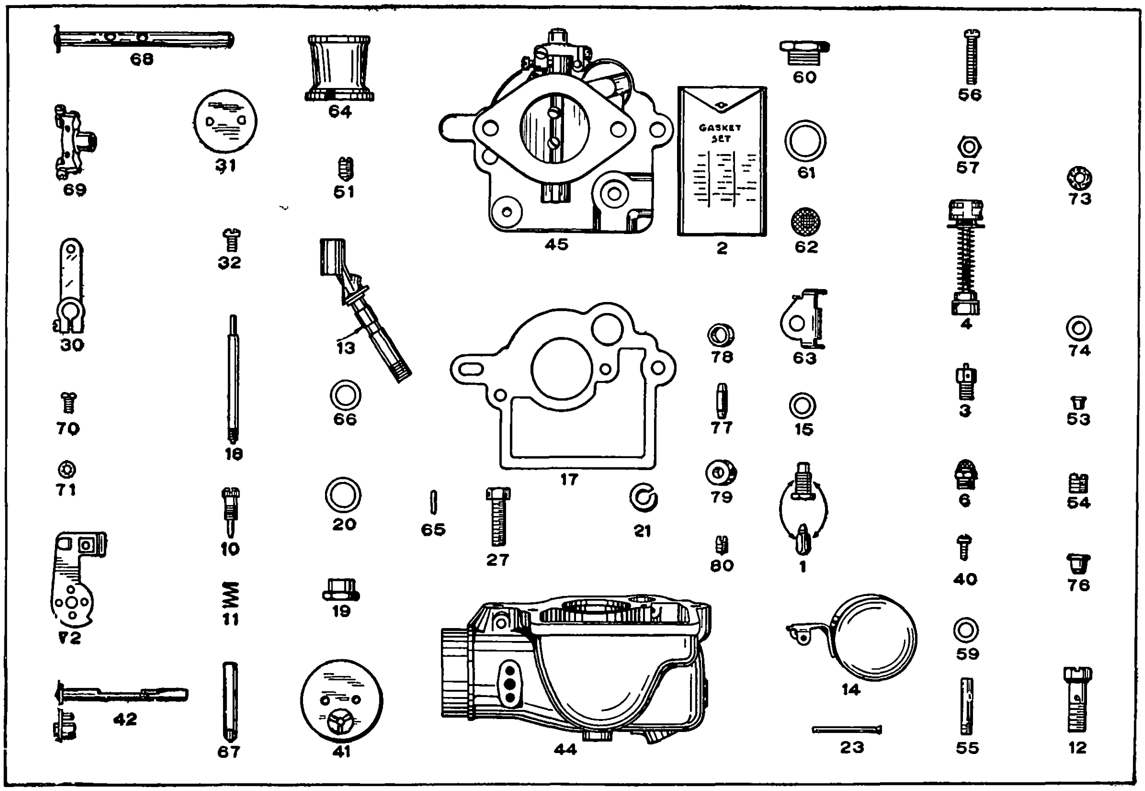
Idle System—
When the throttle valve is closed gasoline is delivered to the engine by means of the idle system of the carburetor Gasoline is taken up through the idle tube (28) which meters the quantity of fuel for the idle system It is mixed with air the amount of which is governed by the idle needle valve (5) and reaches the engine by means of the idle holes (1) and up through the barrel of the carburetor To make the mixture richer turn idle needle valve (5) **IN**, to make mixture leaner screw **OUT.**

Self Draining Feature—
The danger of any flame or fire which might result from premature spark in the engine is eliminated by the incorporation of the self draining feature of the SFM carburetor Should for any reason the carburetor become flooded or loaded with gasoline, the excessive amount of which is not delivered to the carburetor manifold it will accumulate in the bowl of the main body or air inlet The self draining of this unit is accomplished by means of a channel (21) leading from the bowl of the carburetor air inlet to a hole above the carburetor throttle valve which is exposed to manifold vacuum and draws the excessive fuel from the carburetor bowl and delivers it into the carburetor manifold This action prevents any gasoline that might be exposed to any back fire, from remaining in the carburetor

Fuel Level—
The gasoline level in the float chamber is properly set at the factory and should not be adjusted unless carburetor has been handled roughly or level has been changed for some other cause For measuring fuel level it is advisable to use an open vessel with a leveled top, large enough to support the throttle valve body and to accommodate the float assembly Place main body gasket between body and vessel before checking Connect gas line to inlet in throttle body and allow gas to feed into measuring vessel at the fuel pump pressure until flow is stopped by the closing of the float needle valve Fuel level should measure (see parts page) below top surface of vessel (without gasket) Use standard depth gauge for measuring fuel level To correct fuel level hold throttle body in inverted position and set float to measure (see parts page) from top of float (14) to gasket surface of throttle body, which will give approximate fuel level

MOTOR TUNE-UP DATA

Due to the number of carburetor specifications for different engines listed herein it is impossible to give standard motor tune-up information.



SERVICE REPLACEMENT PARTS LIST

Key No.	Part Name	
1	Float Needle Valve and Seat	(NOT VAR)
2	Complete Set of Gaskets	
3	By Pass Jet	(VAR)
4	Pump Piston Link and Spring	
6	Pump Inlet Check Valve	
10	Idle Needle Valve	
11	Spring—Idle Needle Valve	
12	Metering Jet	(VAR)
13	Main Discharge Jet	(VAR)
14	Float	
15	Gasket—Float Needle Valve Seat	
17	Gasket—Main Body	
18	Idle Tube	
19	Nut—Main Discharge Jet	
20	Gasket—Main Discharge Jet Nut	
21	Lockwasher—Main Body Attach	
23	Fulcrum Pin—Float	
27	Screw—Main Body Attach	
30	Throttle Lever	
	Screw—Throttle Lever Clamp	
31	Throttle Valve	
32	Screw—Throttle Valve Attach	
40	Screw—Choke Valve Attach	
41	Choke Valve	
42	Choke Stem	
44	Main Body	
45	Throttle Body (complete with idle holes throttle valve and stem)	(VAR)
51	Set Screw—Vent Tube	
53	Plug—Pump Channel	
54	Plug—Idle Discharge Channel	
55	High Speed Bleeder	(VAR)
56	Screw—Pump Adj	
57	Nut—Pump Adj Screw	
59	Gasket—Metering Jet	
60	Plug—Strainer	
61	Gasket—Strainer Plug	
62	Strainer—Gas	
63	Hanger—Float	
64	Venturi	(VAR)
65	Pin—Main Discharge Jet Locating	
66	Gasket—Main Discharge Jet	
67	Vent Tube	
68	Throttle Stem	
69	Throttle Stop	
70	Screw—Choke Tube Holder Attach	
71	Lockwasher—Choke Tube Holder Attach Screw	
72	Choke Tube Holder	
	Screw—Choke Tube Clamp	
	Nut—Choke Tube Clamp Screw	
73	Washer—Idle Tube Cork	
74	Washer—Idle Tube	
*75	Plug—Gov Conn	
76	Plug—Idle Drilling Hole	
77	Pin—Choke Stem	
78	Bushing—Choke Lever Spacer	
79	Collar—Choke Stem	
80	Set Screw—Choke Stem Collar	
*81	Drain By Pass Jet	(VAR)

*Parts Not Illustrated

BENDIX PRODUCTS DIVISION

SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

Printed in U S A

Key No.	425074 G.M.T.C. Mod. AF-500, AF-550 Sym. No. 2136107 3-5/8" x 4-1/8"—6 cyl. Own 12T8	425075 G.M.T.C. Mod. AF-600, AF-650 Sym. No. 2136108 3-13/16" x 4-1/2"— 6 cyl. Own 1308
1	P-17282	P-17282
2	J-4436-G	J-4436-G
3	P-16786—.032"	P-16786—.032"
4	P-23133	P-23133
6	P-23135	P-23135
10	P-15396	P-15396
11	P-12530	P-12530
12	P-15384—.054"	P-15384—.055"
13	P-16773—**No. 32**	P-16773—**No. 32**
14	P-16767	P-16767
15	P-11572	P-11572
17	P-18496	P-18496
18	P-16754	P-16754
19	P-16762	P-16762
20	P-5636	P-5636
21	P-6592	P-6592
23	P-16760	P-16760
27	P-16765	P-16765
30	P-22881 P-3199	P-22881 P-3199
31	P-16755	P-16755
32	P-16716	P-16716
40	P-16717	P-16717
41	P-22929	P-22929
42	P-23890	P-23890
44	425354	425354
45	425355	425355
51	P-14745	P-14745
53	P-15458	P-15458
54	P-12780	P-12780
55	P-16776—**No. 60**	P-16776—**No. 60**
56	P-5546	P-5546
57	P-14618	P-14618
59	P-6855	P-6855
60	P-17140	P-17140
61	P-20235	P-20235
62	P-12958	P-12958
63	P-16761	P-16761
64	P-16753—**1-1/8"**	P-16753—**1-1/8"**
65	P-16850	P-16850
66	P-21372	P-21372
67	P-16757	P-16757
68	P-16793	P-16793
69	P-7041	P-7041
70	P-14646	P-14646
71	P-15346	P-15346
72	P-11969 P-12868 P-8806	P-11969 P-12868 P-8806
73	P-14160	P-14160
74	P-22713	P-22713
*75	P-3292	P-3292
76	P-20454	P-20454
77	P-3881	P-3881
78	P-13828	P-13828
79	P-17081	P-17081
80	P-16161	P-16161
*81	P-16179—**No. 58**	P-16179—**No. 58**

*Not Illustrated.

SETTINGS	SETTINGS
Fuel Level—9/16". Fuel Pressure—2 lbs. Throttle Valve Location — Lower lip of throttle valve to be **Flush** + — .004" from No. 58 idle hole.	Fuel Level—9/16". Fuel Pressure—2 lbs. Throttle Valve Location — Lower lip of throttle valve to be **Flush** + — .004" from No. 58 idle hole.

STROMBERG SFM-3 CARBURETOR

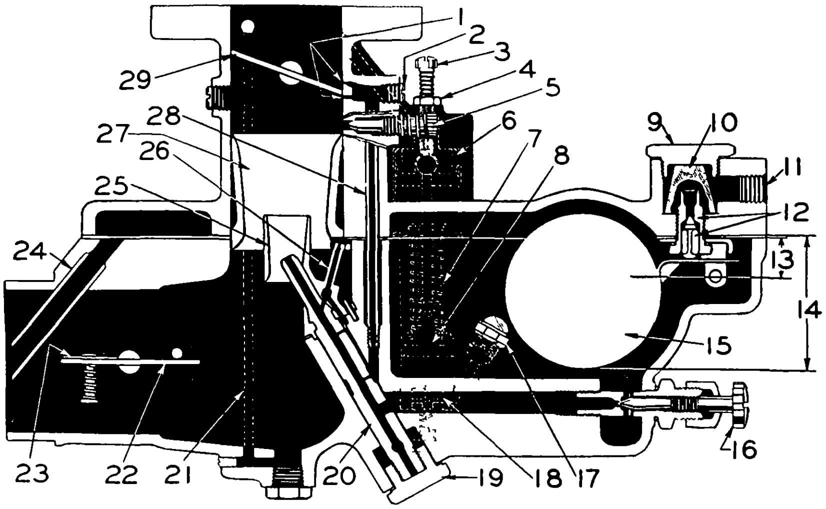
FOR STROMBERG NUMBER, CODE NUMBER, MANUFACTURER'S SYMBOL NUMBER, MODEL, BORE AND STROKE INFORMATION SEE PARTS PAGE

SIZE 1-1/2" UPDRAFT S A.E. 2-15/16" FLANGE CENTER

G.M.T.C.
and
Yellow Coach

PARTS ILLUSTRATED

1 Idle Discharge Holes
2 Idle Discharge Hole Plug
3 Pump Stroke Adjustment Screw
4 Pump Adjustment Screw Locknut
5 Idle Needle Valve
6 Pump Vacuum Piston
7 Pump Duration Spring
8 Pump Piston
9 Strainer Plug
10 Gasoline Strainer
11 Gasoline Inlet
12 Float Needle Valve and Seat
13 Fuel Level
14 Float Level
15 Float
16 Metering Jet
17 Pump Inlet Check Valve
18 By Pass Jet
19 Main Discharge Jet Plug
20 Main Discharge Jet
21 Drain By Pass Channel
22 Choke Valve
23. Choke Poppet Valve
24 Vent Tube
25 Auxiliary Venturi
26 High Speed Bleeder
27 Primary Venturi
28 Idle Tube
29 Throttle Valve



Main Metering System—
The main metering system controls the flow of the fuel during the intermediate speed of the engine. Fuel enters the carburetor through the gasoline inlet (11) into the float chamber. From here the gasoline passes through the metering jet (16) which controls the supply of fuel for the main metering system, to the main discharge jet (20). The main discharge jet delivers the fuel to the small venturi (25) (auxiliary venturi) where it is mixed with air and flows into the carburetor barrel The amount of air used in the mixture is controlled by the large venturi (27). (When replacing main discharge jet use new P-21372 gasket)

Power System—
For maximum power or higher speeds a richer mixture is needed This is accomplished by the power system. During the intermediate speed of the engine sufficient fuel is furnished by the main metering jet However for hard pulls and wide open throttle this supply is not equivalent to the engine demands; therefore another valve comes into operation to supply this extra amount of gasoline needed While the engine runs at a moderate speed a certain amount of manifold vacuum is created. This vacuum holds vacuum piston (6) in an up position but when the throttle is opened above normal to compensate for the extra power that may be needed from the engine the vacuum falls off accordingly and the vacuum piston drops until the pump piston (8), which is directly connected to the vacuum piston, comes in contact with and opens the valve in the by-pass jet (18). The opening of this valve allows an additional amount of gasoline to enter the main discharge jet and enrichens the mixture. This is known as the Power System

Accelerating System—
As explained above, the vacuum piston of the pump is held in an up position by the manifold vacuum created by the engine On sudden opening of the throttle the vacuum drops off very rapidly and the vacuum piston (6) is released. When this occurs accelerating pump spring (7) forces pump piston (8) down which in turn forces a discharge of gasoline to be driven through the by-pass jet (18) and out the main discharge jet This sudden surplus of fuel enrichens the mixture for the moment and furnishes the engine the extra power needed for fast acceleration The amount of discharge can be controlled by the adjustment screw (3). Turn screw IN to lessen, OUT to make greater

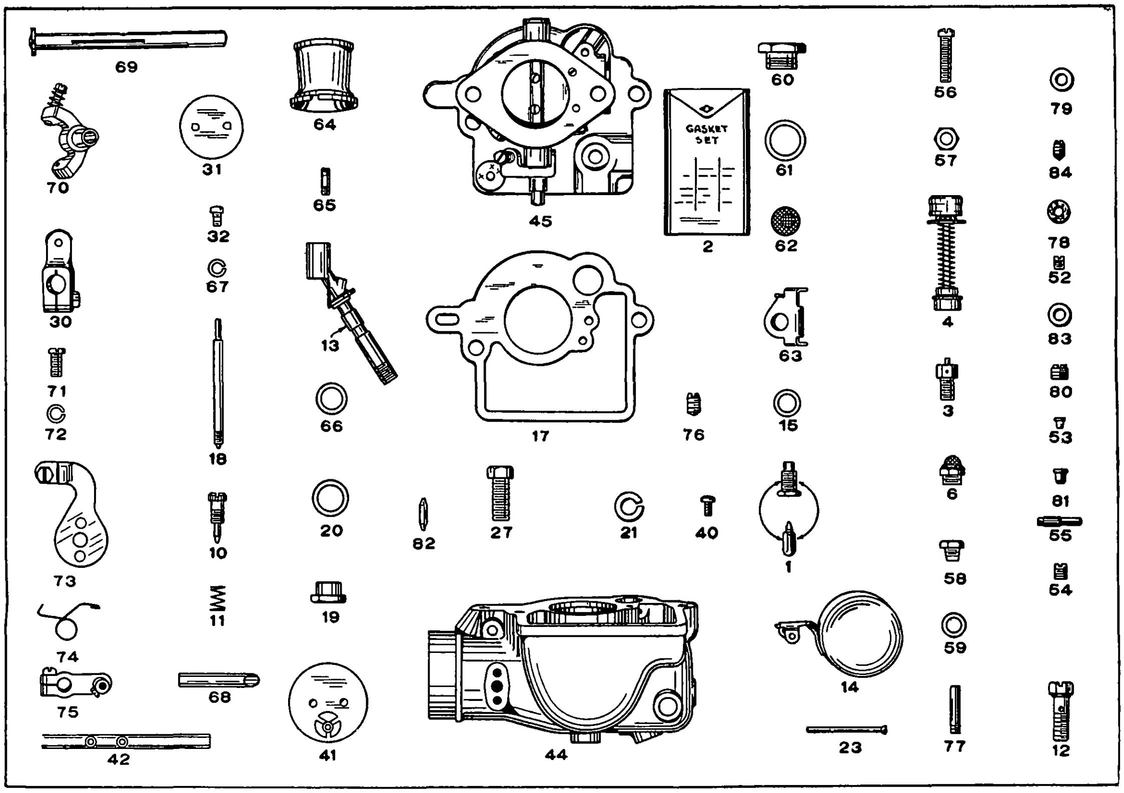
Idle System—
When the throttle valve is closed gasoline is delivered to the engine by means of the idle system of the carburetor. Gasoline is taken up through the idle tube (28) which meters the quantity of fuel for the idle system. It is mixed with air, the amount of which is governed by the idle needle valve (5) and reaches the engine by means of the idle holes (1) and up through the barrel of the carburetor. To make the mixture richer turn idle needle valve (5) **IN,** to make mixture leaner screw **OUT.**

Self Draining Feature—
The danger of any flame or fire which might result from premature spark in the engine is eliminated by the incorporation of the self draining feature of the SFM carburetor. Should for any reason the carburetor become flooded or loaded with gasoline, the excessive amount of which is not delivered to the carburetor manifold, it will accumulate in the bowl of the main body or air inlet. The self draining of this unit is accomplished by means of a channel (21), leading from the bowl of the carburetor air inlet to a hole above the carburetor throttle valve which is exposed to manifold vacuum and draws the excessive fuel from the carburetor bowl and delivers it into the carburetor manifold. This action prevents any gasoline that might be exposed to any back fire, from remaining in the carburetor.

Fuel Level—
The gasoline level in the float chamber is properly set at the factory and should not be adjusted unless carburetor has been handled roughly or level has been changed for some other cause For measuring fuel level it is advisable to use an open vessel with a leveled top, large enough to support the throttle valve body and to accommodate the float assembly. Place main body gasket between body and vessel before checking Connect gas line to inlet in throttle body and allow gas to feed into measuring vessel at the fuel pump pressure until flow is stopped by the closing of the float needle valve. Fuel level should measure (see parts page) below top surface of vessel (without gasket). Use standard depth gauge for measuring fuel level. To correct fuel level hold throttle body in inverted position and set float to measure (see parts page) from top of float (14) to gasket surface of throttle body, which will give approximate fuel level.

MOTOR TUNE-UP DATA

Due to the number of carburetor specifications for different engines listed herein it is impossible to give standard motor tune-up information.



SERVICE REPLACEMENT PARTS LIST

Key No	Part Name	
1	Float Needle Valve and Seat	(NOT VAR)
2	Complete Set of Gaskets	
3	By Pass Jet	(VAR)
4	Pump Piston	
6	Pump Inlet Check Valve	
10	Idle Needle Valve	
11	Spring—Idle Needle Valve	
12	Metering Jet	(VAR)
13	Main Discharge Jet	(VAR)
14	Float Assembly	
17	Gasket—Main Body	
18	Idle Tube	
19	Nut—Main Discharge Jet	
20	Gasket—Main Discharge Jet Nut	
21	Lockwasher—Main Body Attach Screw	
23	Pin—Float Fulcrum	
27	Screw—Main Body Attach	
30	Throttle Lever	
	Clamp Screw	
31	Throttle Valve	
32	Screw—Throttle and Choke Valve Attach	
41	Choke Valve	
42	Choke Stem	
44	Main Body	
45	Throttle Body (complete with idle holes throttle stem and valve)	(VAR)
52	Plug—Vacuum Channel	
53	Plug—Pump Channel	
54	Plug—Idle Discharge Holes	
55	Pin—Choke Valve Stop	
56	Screw—Vacuum Piston Adj	
57	Nut—Vacuum Piston Adj Screw	
58	Plug—Gas Inlet and Drain Boss	
59	Gasket—Metering Jet	
60	Plug—Gasoline Strainer	
61	Gasket—Gasoline Strainer Plug	
62	Strainer—Gasoline	
63	Hanger—Float	
64	Venturi	(VAR)
65	Pin—Main Jet Locating	
66	Gasket—Main Discharge Jet	
67	Lockwasher—Valve Attach Screw	
68	Vent Tube	
69	Throttle Stem	
70	Throttle Stop	
	Idle Adj Screw	
	Spring—Idle Adj Screw	
71	Screw—Tube Holder Attach	
72	Lockwasher—Tube Holder Attach Screw	
73	Tube Holder	
	Screw—Tube	
74	Spring—Choke Valve Return	
75	Choke Lever	
	Screw—Wire Conn	
	Screw—Clamp	
76	Set Screw—Vent Tube	
77	High Speed Bleeder	(VAR)
78	Gasket—Idle Tube—Cork	
79	Washer—Idle Tube	
80	Plug—Governor Conn	
81	Plug—Idle Discharge Drilling Hole	
82	Pin—Choke Stem Separator	
83	Collar—Choke Stem	
84	Set Screw—Choke Stem Collar	
*85	Drain By Pass	

*Not Illustrated

BENDIX PRODUCTS DIVISION

SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

Printed in U S A

Key No	425054 G M T C Model AF-700 Symbol No 2136052 4-1/8′ x 4-1/2′—6 cyl Own 1361	425055 G M T C Model AF-800 Symbol No 2136054 4-1/4′ x 5′—6 cyl Own 1426	425056 G M T C Model AF-700 R H Drive Symbol No 2136053 4-1/8″ x 4-1/2″—6 cyl Own 361	425057 G M T C Model AF-800 R H Drive Symbol No 2136055 4-1/4″ x 5′—6 cyl Own 426
1	P 17282	P 17282	P 17282	P 17282
2	J 4417 G	J 4417 G	J 4417 G	J 4417 G
3	P 16786— **044′**	P 16786— **036″**	P 16786— **044′**	P 16786— **036″**
4	P 23129	P 23129	P 23129	P 23129
6	P 23135	P 23135	P 23135	P 23135
10	P 15396	P 15396	P 15396	P 15396
11	P 12530	P 12530	P 12530	P 12530
12	P 15384— **059′**	P 15384—**.064′**	P 15384— **059′**	P 15384— **064″**
13	P 16863—**No 28**	P 16863—**No 28**	P 16863—**No. 28**	P 16863—**No 28**
14	P 16851	P 16851	P 16851	P 16851
17	P 18891	P 18891	P 18891	P 18891
18	P 16847	P 16847	P 16847	P 16847
19	P 16762	P 16762	P 16762	P 16762
20	P 5636	P 5636	P 5636	P 5636
21	P 5364	P 5364	P 5364	P 5364
23	P 16760	P 16760	P 16760	P 16760
27	P 16849	P 16849	P 16849	P 16849
30	P 22914	P 22914	P 22914	P 22914
	P 15817	P 15817	P 15817	P 15817
31	P 12251	P 12251	P 12251	P 12251
32	P 15259	P 15259	P 15259	P 15259
41	P 21758	P 21758	P 21758	P 21758
42	P 21756	P 21756	P 21756	P 21756
44	425297	425297	425297	425297
45	425374—**No 58-62**	425374—**No 58-62**	425375—**No 58-62**	425375—**No 58-62**
52	P 7098	P 7098	P 7098	P 7098
53	P 15458	P 15458	P 15458	P 15458
54	P-12780	P 12780	P 12780	P 12780
55	P 16764	P 16764	P 16764	P 16764
56	P 19911	P 19911	P 19911	P 19911
57	P 14618	P 14618	P 14618	P 14618
58	P 26	P 26	P 26	P 26
59	P 6855	P 6855	P 6855	P 6855
60	P 17140	P 17140	P 17140	P 17140
61	P 20235	P 20235	P 20235	P 20235
62	P 12958	P 12958	P 12958	P 12958
63	P 16761	P 16761	P 16761	P 16761
64	P 16845—**1-5/16′**	P 16845—**1-5/16′**	P 16845—**1-5/16′**	P 16845—**1-5/16′**
65	P 16850	P 16850	P 16850	P 16850
66	P 21372	P 21372	P 21372	P 21372
67	P 1693	P 1693	P 1693	P 1693
68	P 16848	P 16848	P 16848	P 16848
69	P 16866	P 16866	P 16866	P 16866
70	P 16795	P 16795	P 18449	P 18449
	P 18552	P 18552	P 18552	P 18552
	P 15831	P 15831	P 15831	P 15831
71	P 16766	P 16766	P 16766	P 16766
72	P 3157	P 3157	P 3157	P 3157
73	P 17461	P 17461	P 16805	P 16805
	P 16807	P 16807	P 16807	P 16807
74	P 17468	P 17468	P 16763	P 16763
75	P 22920	P 22920	P 22920	P 22920
	P 15297	P 15297	P 15297	P 15297
	P 3199	P 3199	P 3199	P 3199
76	P 14745	P 14745	P 14745	P 14745
77	P 14334—**No 65**	P 14334—**No. 65**	P 14334—**No. 65**	P 14334—**No 65**
78	P 14160	P 14160	P 14160	P 14160
79	P 22713	P 22713	P 22713	P 22713
80	P 3292	P 3292	P 3292	P 3292
81	P 20454	P 20454	P 20454	P 20454
82	P 3881	P 3881	P 3881	P 3881
83	P 19901	P 19901	P 19901	P 19901
84	P 16161	P 16161	P 16161	P 16161
*85	P 16179—**No 58**	P 16179—**No. 58**	P 16179—**No. 58**	P 16179—**No 58**
	SETTINGS Fuel Level—7/8 Fuel Pressure—2 lbs Throttle Valve Location — Lower lip of throttle valve to be **Flush** + — 004 from No 58 idle hole	SETTINGS Fuel Level—7/8 Fuel Pressure—2 lbs Throttle Valve Location — Lower lip of throttle valve to be **Flush** + — 004 from No 58 idle hole	SETTINGS Fuel Level—7/8′ Fuel Pressure—2 lbs Throttle Valve Location — Lower lip of throttle valve to be **Flush** + — 004 from No 58 idle hole	SETTINGS Fuel Level—7/8′ Fuel Pressure—2 lbs Throttle Valve Location — Lower lip of throttle valve to be **Flush** + — 004 from No 58 idle hole

*Not Illustrated

STROMBERG SFM-4 CARBURETOR

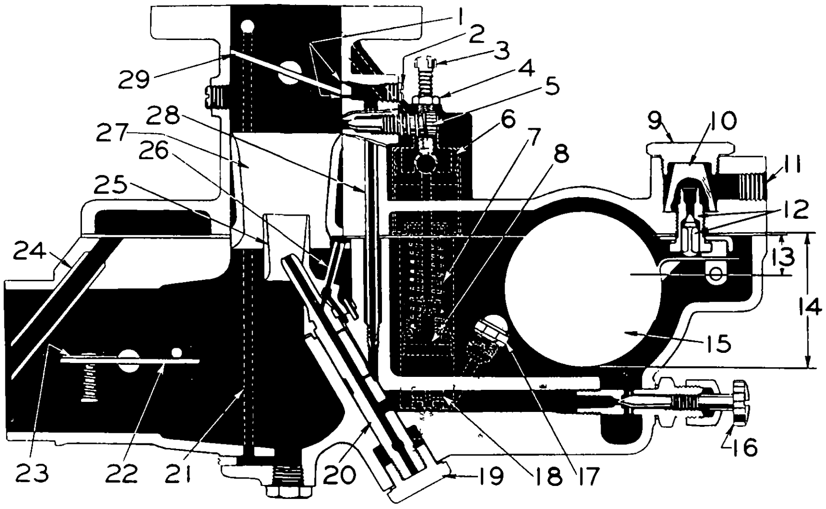
FOR STROMBERG NUMBER, CODE NUMBER, MANUFACTURER'S SYMBOL NUMBER, MODELS, BORE AND STROKE INFORMATION SEE PARTS PAGE

SIZE: 1-3/4" UPDRAFT S.A.E. 3-5/16" FLANGE CENTERS

G.M.T.C. and Yellow Coach

PARTS ILLUSTRATED

1 Idle Discharge Holes
2 Idle Discharge Hole Plug
3 Pump Stroke Adjustment Screw
4 Pump Adjustment Screw Locknut
5 Idle Needle Valve
6 Pump Vacuum Piston
7 Pump Duration Spring
8 Pump Piston
9 Strainer Plug
10 Gasoline Strainer
11 Gasoline Inlet
12 Float Needle Valve and Seat
13 Fuel Level
14 Float Level
15 Float
16 Metering Jet
17 Pump Inlet Check Valve
18 By Pass Jet
19 Main Discharge Jet Plug
20 Main Discharge Jet
21 Drain By Pass Channel
22 Choke Valve
23 Choke Poppet Valve
24 Vent Tube
25 Auxiliary Venturi
26 High Speed Bleeder
27 Primary Venturi
28 Idle Tube
29 Throttle Valve



Main Metering System—
The main metering system controls the flow of the fuel during the intermediate speed of the engine. Fuel enters the carburetor through the gasoline inlet (11) into the float chamber. From here the gasoline passes through the metering jet (16) which controls the supply of fuel for the main metering system, to the main discharge jet (20). The main discharge jet delivers the fuel to the small venturi (25) (auxiliary venturi) where it is mixed with air and flows into the carburetor barrel. The amount of air used in the mixture is controlled by the large venturi (27). (When replacing main discharge jet use new P-21372 gasket.)

Power System—
For maximum power or higher speeds a richer mixture is needed This is accomplished by the power system. During the intermediate speed of the engine sufficient fuel is furnished by the main metering jet However for hard pulls and wide open throttle this supply is not equivalent to the engine demands; therefore another valve comes into operation to supply this extra amount of gasoline needed. While the engine runs at a moderate speed a certain amount of manifold vacuum is created. This vacuum holds vacuum piston (6) in an up position but when the throttle is opened above normal to compensate for the extra power that may be needed from the engine the vacuum falls off accordingly and the vacuum piston drops until the pump piston (8), which is directly connected to the vacuum piston, comes in contact with and opens the valve in the by-pass jet (18). The opening of this valve allows an additional amount of gasoline to enter the main discharge jet and enrichens the mixture This is known as the Power System.

Accelerating System—
As explained above, the vacuum piston of the pump is held in an up position by the manifold vacuum created by the engine On sudden opening of the throttle the vacuum drops off very rapidly and the vacuum piston (6) is released. When this occurs accelerating pump spring (7) forces pump piston (8) down which in turn forces a discharge of gasoline to be driven through the by-pass jet (18) and out the main discharge jet This sudden surplus of fuel enrichens the mixture for the moment and furnishes the engine the extra power needed for fast acceleration The amount of discharge can be controlled by the adjustment on the pump stem Adjustment set for long stroke a greater amount, short stroke less etc.

Idle System—
When the throttle valve is closed gasoline is delivered to the engine by means of the idle system of the carburetor. Gasoline is taken up through the idle tube (28) which meters the quantity of fuel for the idle system. It is mixed with air, the amount of which is governed by the idle needle valve (5) and reaches the engine by means of the idle holes (1) and up through the barrel of the carburetor. To make the mixture richer turn idle needle valve (5) **IN**, to make mixture leaner screw **OUT**.

Self Draining Feature—

The danger of any flame or fire which might result from premature spark in the engine is eliminated by the incorporation of the self draining feature of the SFM carburetor Should for any reason the carburetor become flooded or loaded with gasoline, the excessive amount of which is not delivered to the carburetor manifold, it will accumulate in the bowl of the main body or air inlet. The self draining of this unit is accomplished by means of a channel (21), leading from the bowl of the carburetor air inlet to a hole above the carburetor throttle valve which is exposed to manifold vacuum and draws the excessive fuel from the carburetor bowl and delivers it into the carburetor manifold. This action prevents any gasoline that might be exposed to any back fire, from remaining in the carburetor.

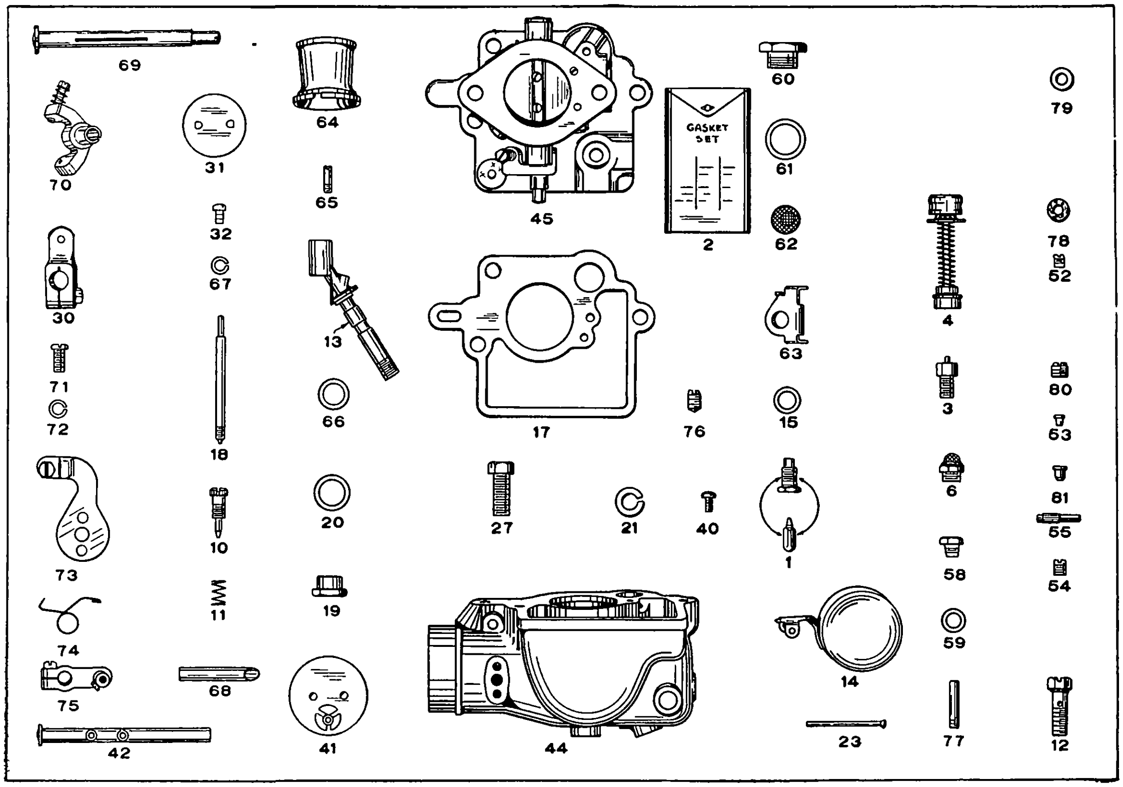
Fuel Level—

The gasoline level in the float chamber is properly set at the factory and should not be adjusted unless carburetor has been handled roughly or level has been changed for some other cause. For measuring fuel level it is advisable to use an open vessel with a leveled top, large enough to support the throttle valve body and to accommodate the float assembly Place main body gasket between body and vessel before checking. Connect gas line to inlet in throttle body and allow gas to feed into measuring vessel at the fuel pump pressure until flow is stopped by the closing of the float needle valve Fuel level should measure (see parts page) below top surface of vessel (without gasket). Use standard depth gauge for measuring fuel level. To correct fuel level hold throttle body in inverted position and set float to measure (see parts page) from top of float (14) to gasket surface of throttle body, which will give approximate fuel level·

MOTOR TUNE-UP DATA

Due to the number of carburetor specifications for different engines listed herein it is impossible to give standard motor tune-up information.

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Key No	Part Name	
1	Float Needle Valve and Seat	(NOT VAR)
2	Complete Set of Gaskets	
3	Pump By Pass Jet	(VAR)
4	Pump Piston Assembly	
6	Pump Inlet Check Valve	
10	Idle Needle Valve	
11	Spring—Idle Needle Valve	
12	Metering Jet	(VAR)
13	Main Discharge Jet	(VAR)
14	Float	
15	Gasket—Float Needle Valve Seat	
17	Gasket—Main Body	
18	Idle Tube	
19	Nut—Main Discharge Jet	
20	Gasket—Main Discharge Jet Nut	
21	Lockwasher—Main Body Attach Screw	
22	Lead Ball	
23	Fulcrum Pin—Float	
27	Screw—Main Body Attach	
30	Throttle Lever	
	Screw—Throttle Lever Clamp	
31	Throttle Valve	
32	Screw—Throttle Valve Attach	
40	Screw—Choke Valve Attach	
41	Choke Valve	
42	Choke Stem	
44	Main Body	
45	Throttle Body (Compt with idle holes thro val & stem)	(VAR)
52	Plug—Vacuum Suction Hole	
53	Plug—Pump Channel	
54	Plug—Idle Discharge Hole	
55	Pin—Choke Valve Stop	
*56	Plug—Pump Adj Hole	

Key No.	Part Name	
58	Plug—Gas Inlet	
59	Gasket—Metering Jet	
60	Plug—Gasoline Strainer	
61	Gasket—Gasoline Strainer Plug	
62	Strainer—Gasoline	
63	Hanger—Float	
64	Venturi	(VAR)
65	Pin—Main Jet Locating	
66	Gasket—Main Discharge Jet	
67	Lockwasher—Valve Attach Screw	
68	Vent Tube	
69	Throttle Stem	
70	Throttle Stop	
	Screw—Idle Adj	
	Spring—Idle Adj Screw	
71	Screw—Tube Holder Attach	
72	Lockwasher—Tube Holder Attach Screw	
73	Tube Holder	
	Screw—Tube Clamp	
74	Spring—Choke Valve Return	
75	Choke Lever	
	Screw—Wire Conn	
	Screw—Clamp Screw	
76	Set Screw—Vent Tube	
77	High Speed Bleeder	(VAR)
78	Gasket—Idle Tube—Cork	
79	Washer—Idle Tube	
80	Plug—Governor Conn	
81	Plug—Idle Discharge Drill Hole	
82	Collar—Choke Stem	
83	Set Screw—Choke Stem Collar	
*84	Drain By Pass	

*Not Illustrated

BENDIX PRODUCTS DIVISION
SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

Printed in U S A

Key No.	425052 G.M.T.C. Mod. AF-800, AF-850 Symbol No. 2136057 4-3/8″ x 4-1/2″—6 cyl. Own 451	425053 G.M.T.C. Model AF-850 Symbol No. 2136059 4-1/2″ x 5″—6 cyl. Own 477	425059 G.M.T.C. Model F-79 Symbol No. 2136056 4-1/4″ x 5″—6 cyl. Own 426	425061 G.M.T.C. Model AY-850 Symbol No. 2136060 4-1/2″ x 5″—6 cyl. Own 477
1	P-18811	P-18811	P-18811	P-18811
2	J-4422-G	J-4422-G	J-4422-G	J-4422-G
3	P-16786—.056″	P-16786—.060″	P-16786—.066″	P-16786—.060″
4	382227	382227	382227	382227
6	P-23135	P-23135	P-23135	P-23135
10	P-15396	P-15396	P-15396	P-15396
11	P-12530	P-12530	P-12530	P-12530
12	P-15384—.072″	P-15384—.070″	P-15384—.070″	P-15384—.070″
13	P-17250—**No. 28**	P-17250—**No. 28**	P-17250—**No. 28**	P-17250—**No. 28**
14	P-17501	P-17501	P-17501	P-17501
15	P-14364	P-14364	P-14364	P-14364
17	P-17496	P-17496	P-17496	P-17496
18	P-17497	P-17497	P-19149	P-17497
19	P-16762	P-16762	P-16762	P-16762
20	P-5636	P-5636	P-5636	P-5636
21	P-5364	P-5364	P-5364	P-5364
22	P-18772	P-18772	P-18772	P-18772
23	P-16760	P-16760	P-16760	P-16760
27	P-16849	P-16849	P-16849	P-16849
30	P-22914	P-22914	P-22914	P-22914
	P-15817	P-15817	P-15817	P-15817
31	P-23225	P-23225	P-23225	P-23225
32	P-285	P-285	P-285	P-285
40	P-15259	P-15259	P-15259	P-15259
41	P-17515	P-17515	P-17515	P-17515
42	P-17517	P-17517	P-17517	P-17517
44	425272	425272	425272	425272
45	425409—**No. 54-60**	425409—**No. 54-60**	425410—**No. 54-60**	425410—**No. 54-60**
52	P-7098	P-7098	P-7098	P-7098
53	P-15458	P-15458	P-15458	P-15458
54	P-12780	P-12780	P-12780	P-12780
55	P-16764	P-16764	P-16764	P-16764
*56	P-14374	P-14374	P-14374	P-14374
58	P-8387	P-8387	P-8387	P-8387
59	P-6855	P-6855	P-6855	P-6855
60	P-17140	P-17140	P-17140	P-17140
61	P-20235	P-20235	P-20235	P-20235
62	P-12958	P-12958	P-12958	P-12958
63	P-17500	P-17500	P-17500	P-17500
64	P-17498—**1-1/2″**	P-17498—**1-1/2″**	P-17498—**1-1/2″**	P-17498—**1-1/2″**
65	P-16850	P-16850	P-16850	P-16850
66	P-21372	P-21372	P-21372	P-21372
67	P-1693	P-1693	P-1693	P-1693
68	P-17499	P-17499	P-17499	P-17499
69	P-17519	P-17519	P-17519	P-17519
70	P-16795	P-16795	P-18449	P-18449
71	P-16766	P-16766	P-16766	P-16766
72	P-3157	P-3157	P-3157	P-3157
73	P 17461	P-17461	P-16805	P-16805
	P-16807	P-16807	P-16807	P-16807
74	P-17468	P-17468	P-17468	P-17468
75	P-22920	P-22920	P-22920	P-22920
	P-15297	P-15297	P-15297	P-15297
	P-3199	P-3199	P-3199	P-3199
76	P-14745	P-14745	P-14745	P-14745
77	P-16320—**No. 60**	P-16320—**No. 58**	P-16320—**No. 65**	P-16320—**No. 58**
78	P-14160	P-14160	P-14160	P-14160
79	P-22713	P-22713	P-22713	P-22713
80	P-3292	P-3292	P-3292	P-3292
81	P-15459	P-15459	P-15459	P-15459
*82	P-16179—**No. 58**	P-16179—**No. 58**	P-16179—**No. 58**	P-16179—**No. 58**
*Not Illustrated				
	SETTINGS Fuel Level—7/8″. Fuel Pressure—2 lbs. Throttle Valve Location — With throttle valve fully closed No. 54 idle hole to be open from a No. 57 drill to a No. 64 drill.	SETTINGS Fuel Level—7/8″. Fuel Pressure—2 lbs. Throttle Valve Location — With throttle valve fully closed No. 54 idle hole to be open from a No. 57 drill to a No. 64 drill.	SETTINGS Fuel Level—7/8″. Fuel Pressure—2 lbs. Throttle Valve Location — With throttle valve fully closed No. 54 idle hole to be open from a No. 57 drill to a No. 64 drill.	SETTINGS Fuel Level—7/8″. Fuel Pressure—2 lbs. Throttle Valve Location — With throttle valve fully closed No. 54 idle hole to be open from a No. 57 drill to a No. 64 drill.

STROMBERG "EXV-2" CARBURETOR

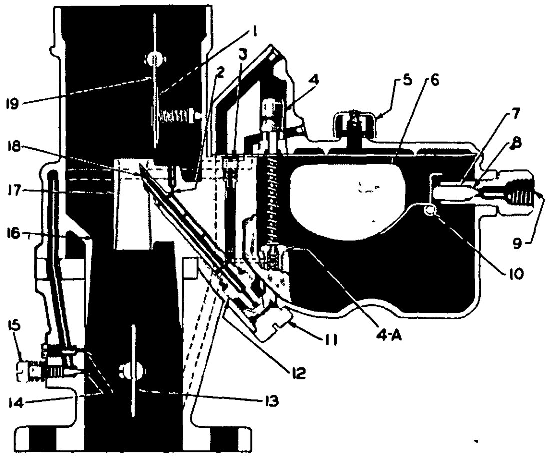
STROMBERG NO. A-18142 (CODE 9-18A) GRAHAM SYMBOL 82658

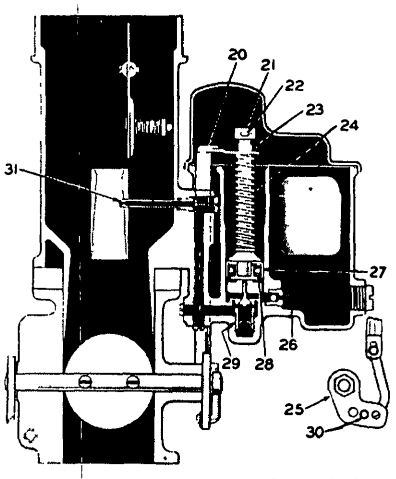
SIZE: 1¼" D. D. S.A.E. 2-11/16" FLANGE CENTERS

1935
GRAHAM
MODEL
"74"
3"x4"—6 cyl

PARTS ILLUSTRATED

1. Poppet Valve
2. High Speed Bleeder
3. Idle Tube
4. Vacuum Power Piston
4a. Power By-Pass Jet
5. Float Chamber Vent
6. Float
7. Float Needle Valve
8. Float Needle Valve Seat
9. Gasoline Inlet
10. Float Fulcrum Pin
11. Main Discharge Jet Plug
12. Main Metering Jet
13. Throttle Valve
14. Idle Discharge Holes
15. Idle Needle Valve
16. Primary Venturi
17. Auxiliary Venturi
18. Main Discharge Jet
19. Choke Valve
20. Pump Rod
21. Pump Adjustment Nut
22. Cotter Pin
23. Piston Connecting Rod





24. Pump Duration Spring
25. Pump Lever
26. Pump Inlet Check Valve
27. Pump Piston
28. Pump Piston Expansion Spring
29. Accel. Pump By-Pass Jet
30. Pump Lever Link
31. Pump Discharge Nozzle

Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **5/8"** below top surface of float chamber (without gasket) at 3 lbs. pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level).

MAIN METERING SYSTEM—Venturi **1-1/32";** Main Discharge Jet **No. 28-36** P-21337 **(Tool T-24925);** High Speed Bleeder **No. 70** (in body); Main Metering Jet **.050"** P-17004 **(Tool T-23844).** Use **Tool T-19099** to remove main jet plug; Main Metering System controls the flow of fuel up to approximately 65 to 70 M. P. H.

POWER SYSTEM—Power By-Pass Jet **No. 61** P-21198; Power jet to come into operation at **4"** to **6"** of manifold vacuum, which is approximately 65 to 70 M. P. H. **Use Tool T-24733** to remove P-21074 vacuum power piston.

ACCELERATION — Pump Discharge Nozzles **No. 72** P-17020; Pump By-Pass Jet **4 No. 56** P-21076; Pump capacity **4** to **7** c.c. per 10 fast strokes, and **10** to **14** c.c. per 10 slow strokes (middle setting); Use **Tool T-24972.** Pump action takes place during acceleration period only. Pump adj. nut set **Flush** with pump stem.

IDLE SYSTEM—Idle Discharge holes **Nos. 56-58;** with throttle valve fully closed and **No. 58** drill in idle hole, edge of valve is located **Flush** + — **.004"** from **No. 58** drill; Idle Air Bleed **No. 52** P-15477; Idle Tube **No. 70** P-19874. **Adjustment:** Adjust to smooth running, OUT to make richer and IN to make leaner; throttle at 7 to 8 M. P. H.

FAST IDLE—Throttle valve to crack open **.073" (No. 49** drill) when choke valve is fully closed.

VACUUM SPARK CONTROL—With throttle fully closed and **No. 50** drill in spark hole, edge of valve is located **Flush** from **No. 50** drill.

FLANGE GASKET—P-4752.

SPECIAL TOOLS REQUIRED — T-24733 Float Bender and Power Piston Wrench; T-24925 Main Discharge Jet Remover; T-23844 Main Metering Jet Wrench; T-24970 By-Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burrette Gauge; T-24968 Handle. T-19099 Main Jet Plug Screw Driver.

MOTOR TUNE-UP DATA

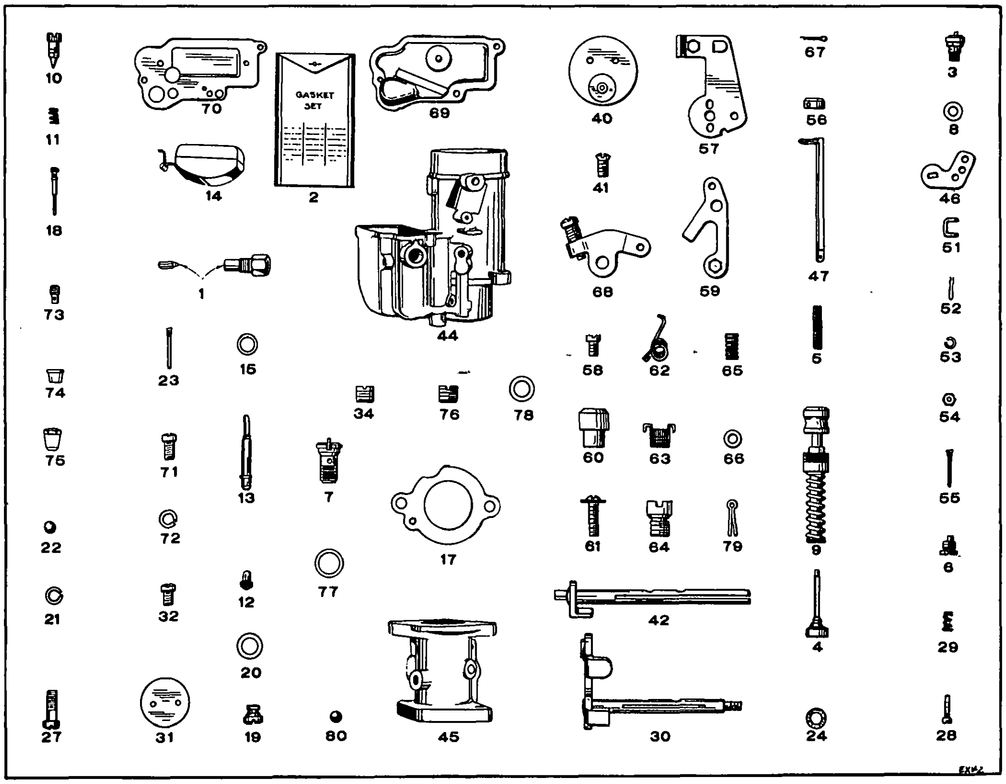
SPARK PLUG—.025".
Clean and adjust at regular intervals.

DISTRIBUTOR—.018" to .024".
Breaker gap set .018" to .024".
Replace if necessary.

VALVES—Intake: .010".
Exhaust: .010". **Engine hot.**

IGNITION TIMING—Breaker contacts to open for No. 1 cylinder when mark "IGN" on flywheel is in line with center of hole.

SERVICE RECOMMENDATION — Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No.	Part No.	Part Name
	1	**P-18916**	Float Needle Valve & Seat—.086" **(NOT VAR.)**
	2	**J-4608-G**	Complete Gasket Set
	3	**P-21076**	Pump By-Pass Jet—No. 56 **(NOT VAR.)**
	4	**P-19565**	Pump Piston & Stem **(Includes P-16960)**
	5	**P-18215**	Spring—Pump Duration
	6	**P-18144**	Check Valve—Pump Inlet
	7	**P-21198**	Power By-Pass Jet No. 61 **(NOT VAR.)**
	8	**P-6855**	Gasket—Pump By-Pass
	9	**P-21074**	Vacuum Power Piston
	10	**P-17402**	Idle Needle Valve
	11	**P-15481**	Spring—Idle Needle Valve
	12	**P-17004**	Metering Jet—**.050"** **(VAR.)**
	13	**P-21337**	Main Discharge Jet No. 28-36 **(NOT VAR.)**
	14	**P-21663**	Float with Lever
	15	**P-10666**	Gasket—Float Needle Valve Seat
	17	**P-21164**	Gasket—Main Body
	18	**P-19874**	Idle Tube—No. 70 **(NOT VAR.)**
	19	**P-18130**	Plug—Main Discharge Jet
	20	**P-60308**	Gasket—Main Discharge Jet Plug
	21	**P-8838**	Lockwasher—Main Body Attach. Screw
	22	**P-18772**	Lead Ball 3/16"
	23	**P-18125**	Screw—Fulcrum—Float Lever
	24	**P-16960**	Spring—Pump Piston Leather Expansion
	27	**P-17000**	Screw—Main Body Attach.
	28	**P-15456**	Screw—Throttle Stop
	29	**P-15831**	Spring—Throttle Stop Screw
	30	**P-19761**	Throttle Lever & Stem
	31	**P-6454**	Throttle Valve **(20°)** **(VAR.)**
	32	**P-16717**	Screw—Throttle Valve Attach.
	34	**P-6184**	Plug—Check Valve Channel
	40	**P-4522**	Screw—Choke Valve
	41	**P-18473**	Choke Valve
	42	**P-18226**	Choke Stem & Lever
	44	**P-21166-T**	Main Body **1-1/32"** Venturi **No. 70** High Speed Bleeder **(VAR.)**
	45	**P-21163**	Throttle Body **No. 56-58** Idle Dis. **Hole** **(VAR.)**
	46	**P-20628**	Pump Lever
	47	**P-19165**	Pump Rod

NOTE—For parts marked (VAR.) size must be specified when ordering.

Location Bin	Key No.	Part No.	Part Name
	51	**P-20958**	Pump Link
	52	**P-19374**	Cotter Pin—Pump Link
	53	**P-1791**	Lockwasher—Pump Lever Nut
	54	**P-2290**	Nut—Pump Lever
	55	**P-17020**	Nozzle—Pump Disch.—**No. 72** **(VAR.)**
	56	**P-18135**	Nut—Pump Rod
	57	**P-17067**	Choke Tube Holder
		P-17051	Tube Holder
		P-11561	Tube Holder Clamp
		P-12868	Tube Holder Clamp Screw
		P-8806	Tube Holder Clamp Screw Nut
	58	**P-17093**	Screw—Choke Tube Holder Attach.
	59	**P-18427**	Choke Lever with Wire Connector & Screw
		P-12867	Wire Connector Screw
	60	**P-17058**	Bushing—Choke Lever
	61	**P-17059**	Screw—Choke Lever Bushing Fulcrum
	62	**P-17068**	Spring—Choke Stop Return
	63	**P-17132**	Spring—Choke Lever
	64	**P-18362**	Rod—Throttle Cracking
	65	**P-17050**	Spring—Throttle Cracking Rod
	66	**P-9394**	Washer—Throttle Cracking Rod
	67	**P-7170**	Cotter Pin—Throttle Cracking Rod
	68	**P-19596**	Lever—Throttle Cracking
		P-19706	Lever
		P-23474	Adj. Screw
		P-15301	Spring
	69	**P-21067**	Float Cover
		P-17828	Float Chamber Vent Cap
		P-9802	Float Chamber Vent Cap Screw
	70	**P-21068**	Gasket—Float Cover
	71	**P-2266**	Screw—Float Cover Attach.
	72	**P-12167**	Lockwasher—Float Cover Attach. Screw
	73	**P-15477**	Idle Air Bleeder **No. 52** **(VAR.)**
	74	**P-15459**	Plug—Idle Channel ¼"
	75	**P-21053**	Plug—Pump Disch. Channel
	76	**P-6387**	Plug—Idle Holes No. 10-32
	77	**P-19448**	Gasket—Power By-Pass Jet
	78	**P-17449**	Washer—Choke Stem
	79	**P-6666**	Cotter Pin—Choke Stem & Pump Rod
	80	**P-19983**	Lead Ball ⅛"

BENDIX PRODUCTS DIVISION
SOUTH BEND **OF BENDIX AVIATION CORPORATION** **INDIANA**

STROMBERG "EX-22" CARBURETOR

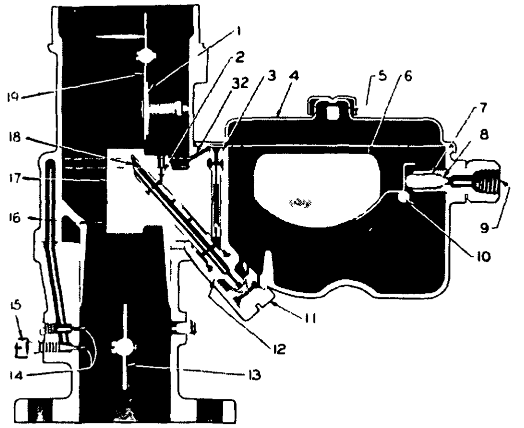
STROMBERG NO. A-18112 (CODE NO. 9-11) GRAHAM SYMBOL 82117

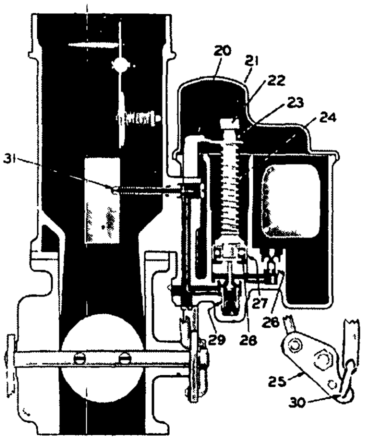
SIZE: 1¼" D. D. S. A. E. 2-11/16" FLANGE CENTERS

1935
GRAHAM
MODEL
"74"
3"x4"—6 cyl.

PARTS ILLUSTRATED

1 Poppet Valve
2 High Speed Bleed
3 Idle Tube
4 Float Chamber Cover
5 Float Chamber Vent
6 Float
7 Float Needle Valve
8 Float Needle Valve Seat
9 Gasoline Inlet
10 Float Fulcrum Pin
11 Main Discharge Jet Plug
12 Main Metering Jet
13 Throttle Valve
14 Idle Discharge Holes
15 Idle Needle Valve
16 Primary Venturi
17 Auxiliary Venturi
18 Main Discharge Jet
19. Choke Valve
20 Pump Rod
21 Power Adjustment Nut
22 Cotter Pin
23 Piston Connecting Rod
24 Connecting Rod Spring
25 Pump Lever





26 Check Valve
27 Pump Piston
28 Pump Piston Spring
29 Power By Pass Jet
30 Pump Lever Link
31 Pump Discharge Nozzle

Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **5/8"** below top surface of float chamber (without gasket) at 3 lbs. pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level.)

MAIN METERING SYSTEM—Venturi **1-1/32"**; Main Discharge Jet **No. 32** P-19546 **(Tool T-24925)**; High Speed Bleeder **No. 70** (in body); Main Metering Jet **.050"** P-17004 **(Tool T-23844).** Use **Tool T-19099** to remove Main Jet Plug; Main Metering System controls the flow of fuel up to approximately 65 to 70 M. P. H.

POWER SYSTEM—Combination Power and Pump By-Pass Jet **4 No. 56** P-18149. Pump piston to rest on seat of by-pass jet (less over-travel) with throttle valve opened **11/32"** less over-travel (measure with shank end of **11/32"** drill) adjust pump stem nut to obtain correct setting. The Power Jet is brought into action at approximately 65 to 70 M. P. H.

ACCELERATION—Pump Discharge Nozzles **No. 68** P-18126; Pump capacity **22** to **24** c.c. per 10 slow strokes. (Middle setting) **(Tool T-24972).** Pump action takes place during acceleration period only.

IDLE SYSTEM—Idle Discharge Holes **No. 56-58;** with throttle valve fully closed and **No. 58** drill in idle hole, edge of valve is located **.018" + — .004"** from **No. 58** drill; Idle Air Bleed **No. 60** P-15477; Idle Tube **No. 70** P-19874. **Adjustment:** Adjust to smooth running, OUT to make richer and IN to make leaner. Throttle at 7 to 8 M. P. H.

FAST IDLE—Throttle valve to crack open **.073" (No. 49** drill) when choke valve is fully closed.

VACUUM SPARK CONTROL—With throttle fully closed and **No. 50** drill in spark hole, edge of valve is located **Flush** with **No. 50** drill.

FLANGE GASKET—P-4752.

SPECIAL TOOLS REQUIRED—T-24733 Float Adjuster; T-24925 Main Discharge Jet Remover; T-23844 Main Metering Jet Wrench; T-24970 By-Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burrette Gauge; T-24968 Handle; T-19099 Main Jet Plug Screw Driver.

MOTOR TUNE-UP DATA

SPARK PLUGS—.025".
Clean and adjust at regular intervals.

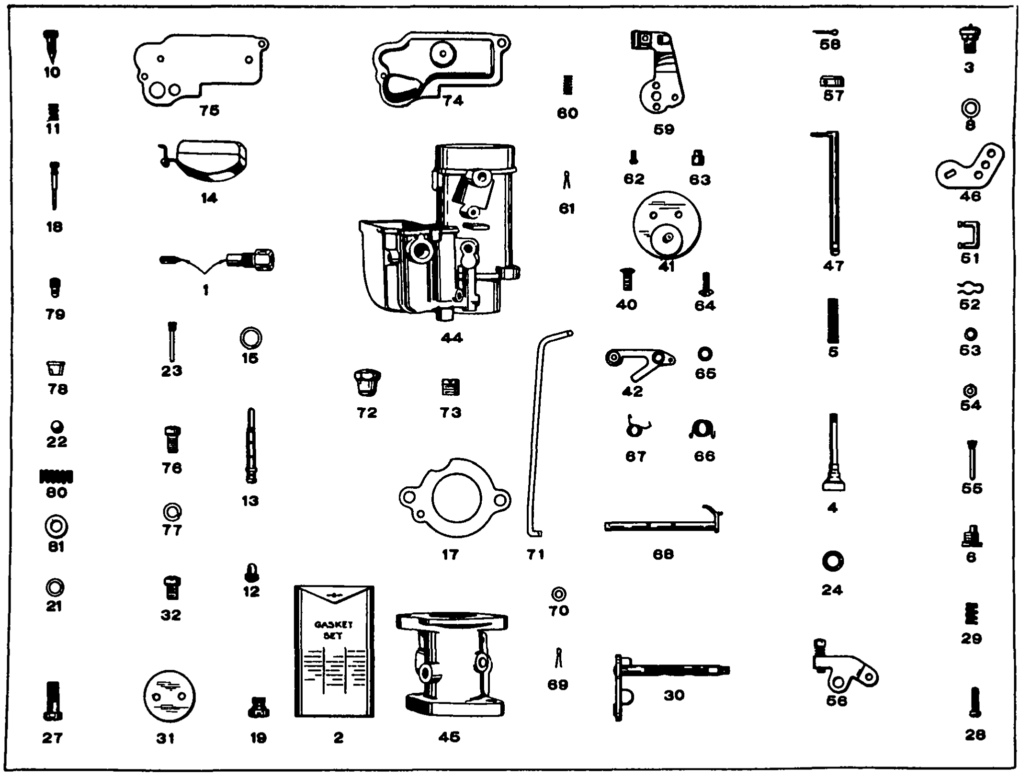
DISTRIBUTOR—.018" to .024".
Breaker gap set .018" to .024".
Replace if necessary.

VALVES—Intake: .010".
Exhaust: .010". **Engine hot.**

IGNITION TIMING—Breaker contacts to open for No. 1 cylinder when mark "IGN" on flywheel is in line with center hole.

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No.	Part No	Part Name
	1	**P 18916**	Float Needle Valve and Seat— 086 **(NOT VAR)**
	2	**J 4362 G**	Complete Gasket Set
	3	**P 18149**	Power By Pass Jet No 56 **(NOT VAR)**
	4	**P 19167**	Pump Piston and Stem **(Includes P 16960**
	5	**P 18221**	Spring—Pump Duration (Upper)
	6	**P 18144**	Check Valve—Pump Inlet
	8	**P 6855**	Gasket—By Pass Jet
	10	**P 17402**	Idle Needle Valve
	11	**P 15481**	Spring—Idle Needle Valve
	12	**P 17004**	Metering Jet— **050 '** **(VAR)**
	13	**P 19546**	Main Discharge Jet No 32 **(NOT VAR)**
	14	**P 17486**	Float with Lever
	15	**P 10666**	Gasket—Float Needle Valve Seat & Main Disch Jet Plug
	17	**P 16943**	Gasket—Main Body
	18	**P 19874**	Idle Tube No 70 **(NOT VAR)**
	19	**P 18130**	Plug Main Discharge Jet
	21	**P 8838**	Lockwasher—Main Body Attaching Screw
	22	**P 18772**	Lead Ball
	23	**P 18125**	Fulcrum Screw—Float Lever
	24	**P 16960**	Spring—Pump Piston Leather Expansion
	27	**P 17000**	Screw—Main Body Attaching
	28	**P 15456**	Stop Screw—Idle Adj
	29	**P 15831**	Spring—Stop Screw Idle Adj
	30	**P 19761**	Throttle Lever and Stem
	31	**P 6454**	Throttle Valve **(20°)** **(VAR)**
	32	**P 16717**	Screw—Throttle Valve Attaching
	40	**P 4522**	Screw—Choke Valve Attaching
	41	**P 18473**	Choke Valve
	42	**P 18427**	Choke Lever with Wire Connection & Screw
		P 12867	Screw—Wire Connector
	44	**P 20972 T**	Assy Main Body **1 1/32"** Venturi **No 70** High Speed Bleeder **(VAR)**
	45	**P 20971**	Assy Throttle Body **No 56 58** Idle Discharge Holes **No 55** Spark Hole **(VAR)**
	46	**P 20628**	Pump Lever
	47	**P 19165**	Pump Rod
	51	**P 20958**	Pump Link
	52	**P 19374**	Cotter Pin—Pump Link
	53	**P 1791**	Lockwasher—Pump Lever Attach Nut
	54	**P 2290**	Pump Lever Attach Nut
	55	**P 18126**	Pump Discharge Nozzle **No. 68** **(VAR)**
	56	**P 19596**	Lever—Throttle Cracking
		P 19706	Loose Lever
		P 23474	Screw—Loose Lever
		P 15301	Spring—Loose Lever Screw
	57	**P 18135**	Nut—Pump Rod
	58	**P 4**	Cotter Pin—Pump Rod
	59	**P 17067**	Tube Holder (Comlpete)
		P 17051	Choke Tube Holder
		P 11561	Choke Tube Holder Clamp
		P 12868	Choke Tube Holder Clamp Screw
		P 8806	Choke Tube Holder Clamp Screw Nut
	60	**P 17050**	Spring—Fast Idle Rod
	61	**P 6666**	Cotter Pin—Choke Stem
	62	**P 17093**	Screw—Tube Holder Attach
	63	**P 17058**	Bushing– Choke Lever
	64	**P 17059**	Screw—Choke Lever Fulcrum
	65	**P 17449**	Washer—Choke Stem
	66	**P 17132**	Torsion Spring—Choke Lever Return
	67	**P 17068**	Torsion Spring—Choke Valve Return
	68	**P 18266**	Choke Stem and Stop
	69	**P 7170**	Cotter Pin—Throttle Cracking Rod
	70	**P 9394**	Washer—Throttle Cracking Rod
	71	**P 18362**	Rod—Throttle Cracking
	72	**P 21053**	Drive Plug
	73	**P 6387**	Plug-- No 10 32
	74	**P 18124 F**	Float Chamber Cover
	75	**P 17778**	Gasket –Float Chamber Cover
	76	**P 2866**	Screw—Float Chamber Cover Attach
	77	**P 12167**	Lockwasher –Float Chamber Cover Attach Screw
	78	**P 15459**	Drive Plug– 1/4
	79	**P 15477**	Idle Air Bleeder **No 60** **(VAR)**
	80	**P 18223**	Spring Pump Duration (Lower)
	81	**P 4735**	Washer Pump Duration Spring Separator

NOTE—For parts marked (VAR) size must be specified when ordering

BENDIX PRODUCTS DIVISION
SOUTH BEND **OF BENDIX AVIATION CORPORATION** **INDIANA**

STROMBERG "EX-23" CARBURETOR

STROMBERG NO. A-18102 (CODE NO. 9-5) GRAHAM SYMBOL 81846

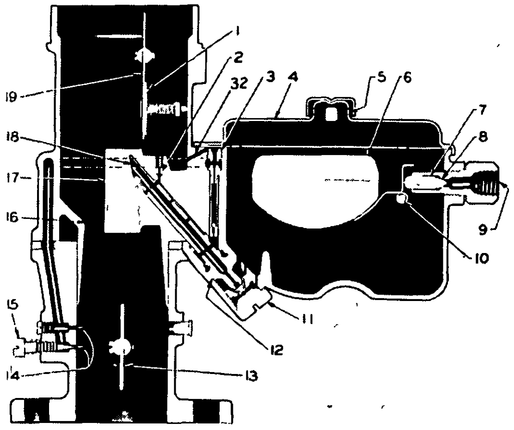
SIZE: 1¼" D. D. S.A.E. 2-11/16" FLANGE CENTERS

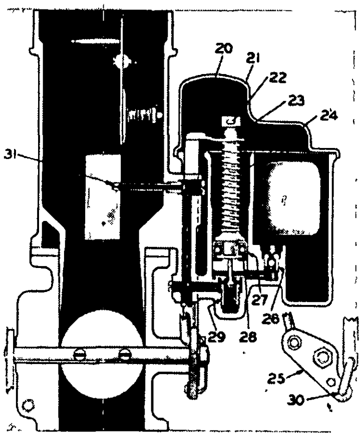
1935 GRAHAM

MODEL
"73"
3¼"x4½"—6 cyl.

PARTS ILLUSTRATED

1. Poppet Valve
2. High Speed Bleed
3. Idle Tube
4. Float Chamber Cover
5. Float Chamber Vent
6. Float
7. Float Needle Valve
8. Float Needle Valve Seat
9. Gasoline Inlet
10. Float Fulcrum Pin
11. Main Discharge Jet Plug
12. Main Metering Jet
13. Throttle Valve
14. Idle Discharge Holes
15. Idle Needle Valve
16. Primary Venturi
17. Auxiliary Venturi
18. Main Discharge Jet
19. Choke Valve
20. Pump Rod
21. Power Adjustment Nut
22. Cotter Pin
23. Piston Connecting Rod
24. Connecting Rod Spring
25. Pump Lever
26. Check Valve
27. Pump Piston
28. Pump Piston Spring
29. Power By-Pass Jet
30. Pump Lever Link
31. Pump Discharge Nozzle





Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **5/8"** below top surface of float chamber (without gasket) at 3 lbs. pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level).

MAIN METERING SYSTEM—Venturi **1-5/32"**; Main Discharge Jet **No. 32** P-20969 **(Tool T-24925)**; High Speed Bleeder **No. 70** (in body); Main Metering jet **.061"** P-17004 **(Tool T-23844)**. Use **T-19099** to remove Main Jet Plug; Main Metering System controls the flow of fuel up to approximately 65 to 70 M. P. H.

POWER SYSTEM—Combination Power and Pump By-Pass Jet 4 **No. 56** P-18149. Pump piston to rest on seat of by-pass jet (less over-travel) with throttle valve opened **3/8"** (measure with shank end of **3/8"** drill) adjust pump stem nut to obtain correct setting. The Power Jet is brought into action at approximately 65 to 70 M. P. H.

ACCELERATION—Pump Discharge Nozzles **No. 66** P-18126; Pump capacity **7** to **9** c.c. per 10 fast strokes and **17** to **19** c.c. per 10 slow strokes. (Maximum setting). Use **Tool T-24972.** Pump action takes place during acceleration period only.

IDLE SYSTEM—Idle Discharge Holes **No. 56-58**; with throttle valve fully closed and **No. 58** drill in idle hole, edge of valve is located **.018"** + — **.004"** from **No. 58** drill; Idle Air Bleed **No. 54** P-15477; Idle Tube **No. 70** P-17007. **Adjustment:** Adjust to smooth running, OUT to make richer and IN to make leaner. Throttle at 7 to 8 M. P. H.

FLANGE GASKET—P-4752.

SPECIAL TOOLS REQUIRED—T-24733 Float Adjuster; T-24925 Main Discharge Jet Remover; T-23844 Main Metering Jet Wrench; T-24970 By-Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burrette Gauge; T-24968 Handle; T-19099 Main Jet Plug Screw Driver.

MOTOR TUNE-UP DATA

SPARK PLUGS—.025".
Clean and adjust at regular intervals.

DISTRIBUTOR—.018" to .024".
Breaker gaps at .018" to .024".
Replace if necessary.

VALVES—Intake: .010".
Exhaust: .010". **Engine hot.**

IGNITION TIMING—Breaker contacts to open for No. 1 cylinder when mark "S-A-1" on flywheel is in line with center of hole.

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

GENERAL DESCRIPTION AND ADJUSTMENT OF AUTOMATIC CHOKE CONTROL AND FAST IDLE MECHANISM

In the Stromberg EX-23 Model carburetor, the automatic choke control with the exception of the thermostat unit "R" is built into the throttle valve body. The thermostat is attached to the manifold riser where it can absorb heat from the exhaust gases which govern its tension. The design of the automatic choke control in the EX-23 carburetor does not require the choke control be "locked" in closed position while cranking the engine.

The purpose of the fast idle mechanism is to prevent the throttle valve from closing tightly while cranking the engine and also from stalling during the warming up period. Figures 1 to 4 show the automatic choke control and fast idle mechanism in the various stages of operation.

FIGURE 1

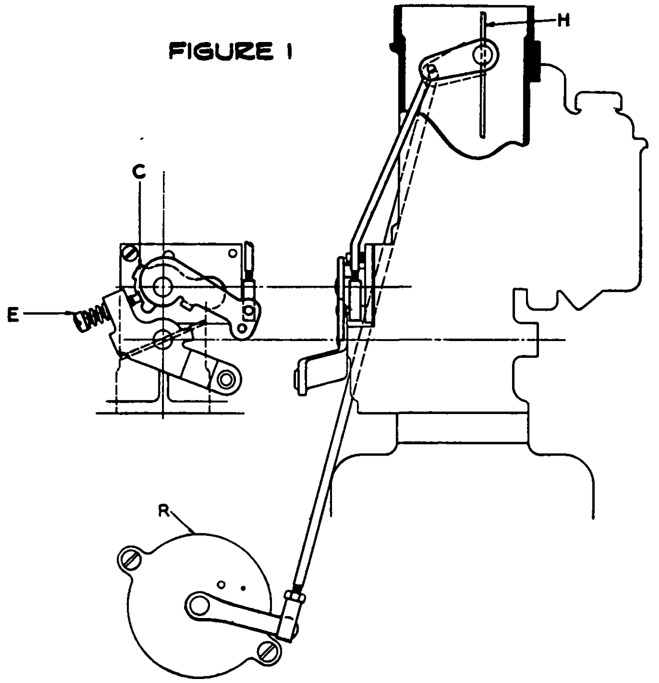


Fig. 1—Choke Open—Slow Idle—Engine Hot or Cold

CHOKE OPEN—SLOW IDLE—ENGINE HOT OR COLD

Figure 1 shows the choke valve "H" in wide open position which it will be when a hot motor is stopped and the throttle valve is allowed to close. In this illustration, adjustment screw "E" is shown at slow or curb idle which should be set at 6 miles per hour with the engine warm. As the engine becomes cold, the thermostat also cools to gradually gain tension and tend to close the carburetor choke valve. It is prevented from doing so by the fast idle adjustment screw "E" coming in contact with the notch on the fast idle cam "C".

CHOKE CLOSED—FAST IDLE

To make a start, it is necessary to OPEN THROTTLE TO 20 MILE HOUR SPEED. With this movement adjustment screw "E" is lifted away from the fast idle cam "C" and allows choke valve "H" to close. With this action, choke lever "D" is raised and pin "Q", which is on the same pivotal shaft, makes contact with ear "P" of loose lever arm "K" and raises the vacuum piston "J". With the raising of lever "D", ear "B", which is a part of the lever, lifts fast idle cam "C" so that adjustment screw "E" comes to rest on the extreme fast idle position of cam "C". During the cranking of the engine, the carburetor and choke control remain in the closed position as shown in Fig. 2.

FIGURE 2

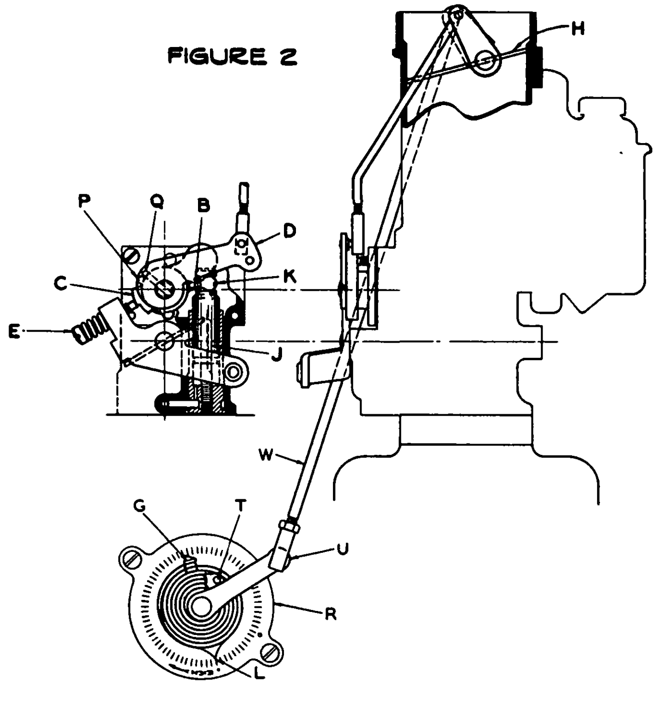


Fig. 2—Choke Closed—Fast Idle

ADJUSTING THERMOSTAT

To adjust the thermostat it is necessary to remove the complete unit "R" from the manifold and proceed as follows:

1. Allow the thermostat to cool or warm until it has reached the temperature of 70°.

2. After it has reached this temperature, unhook the thermostat from the prong "G", revolve indicator point "L" to the zero marking of the thermostat plate. In this position the hook of the thermostat should come flush with the prong "G" of the indicator.

3. Thermostat pointer should then be revolved to the prick punch marking which is seventeen graduations rich and is the original setting made at the factory.

   If the thermostat hook does not come against prong "G" when the pointer "L" is at the zero marking, it will be necessary to recalibrate the thermostat as follows:

4. Revolve pointer so that the hook of the thermostat comes flush with prong "G", with lever held against screw "T". This will then place pointer "L" at a different position and will be the new zero location. This should be stamped on the plate and the old marking obliterated.

5. From this point, hook the spring onto prong "G" and revolve pointer "L" seventeen notches rich and lock in position.

6. Reinstall thermostat unit "R" to manifold and with choke valve "H" in closed position, attach rod "W" to lever "U", holding lever against screw "T".

FIGURE 3

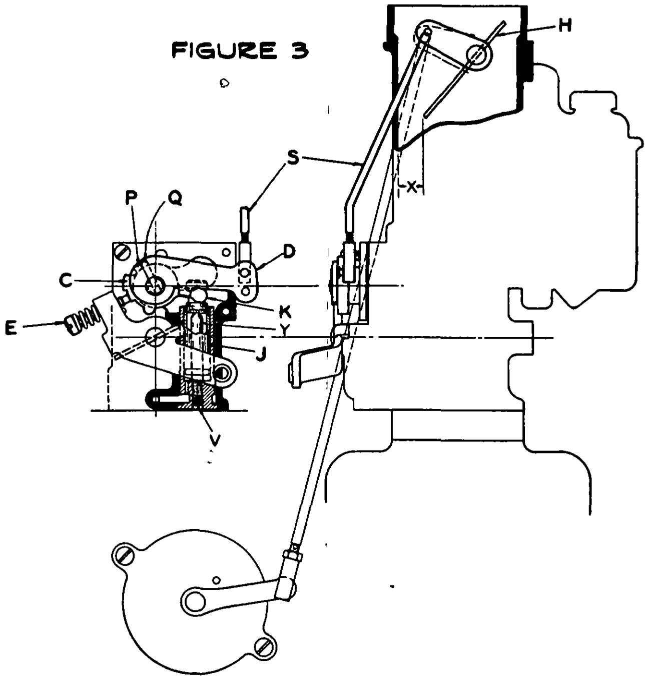


Fig. 3—Choke Partially Open—Engine Warm Intermediate Idle

CHOKE PARTIALLY OPEN—ENGINE WARM—INTERMEDIATE IDLE

As soon as the engine begins to fire and a manifold vacuum is created, vacuum piston "J" is pulled down. Ear "P" of loose arm "K" comes in contact with dowel pin "Q" to rotate shaft and assembly in clockwise direction, lever "D" being on the same shaft as pin "Q" rotates with it and pulls down connecting rod "S", which forces choke valve "H" to open a predetermined amount.

Fast idle cam "C" is a weighted lever and is free to drop by its own weight from this position on, allowing adjustment screw "E" to gradually close the throttle valve until it reaches the slow idle position. The choke valve in the carburetor continues to open by the inrushing air, which works against the tension of the thermostat until the thermostat absorbs enough heat so that it will not offer any resistance until the choke valve "H" reaches the position as previously shown in Fig. No. 1 with a hot engine. If for any reason it is necessary to replace piston sleeve or pin "Y", the pin should be adjusted so that a 27/64" drill can be place between the choke valve and body shown as "X", with piston "J" in the down position. After pin is adjusted, lead ball "V" should be used to lock pin in position.

FIGURE 4

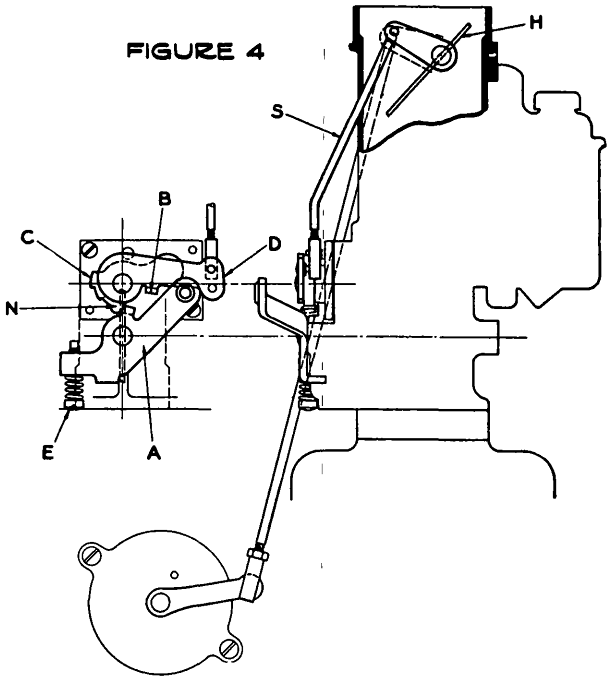
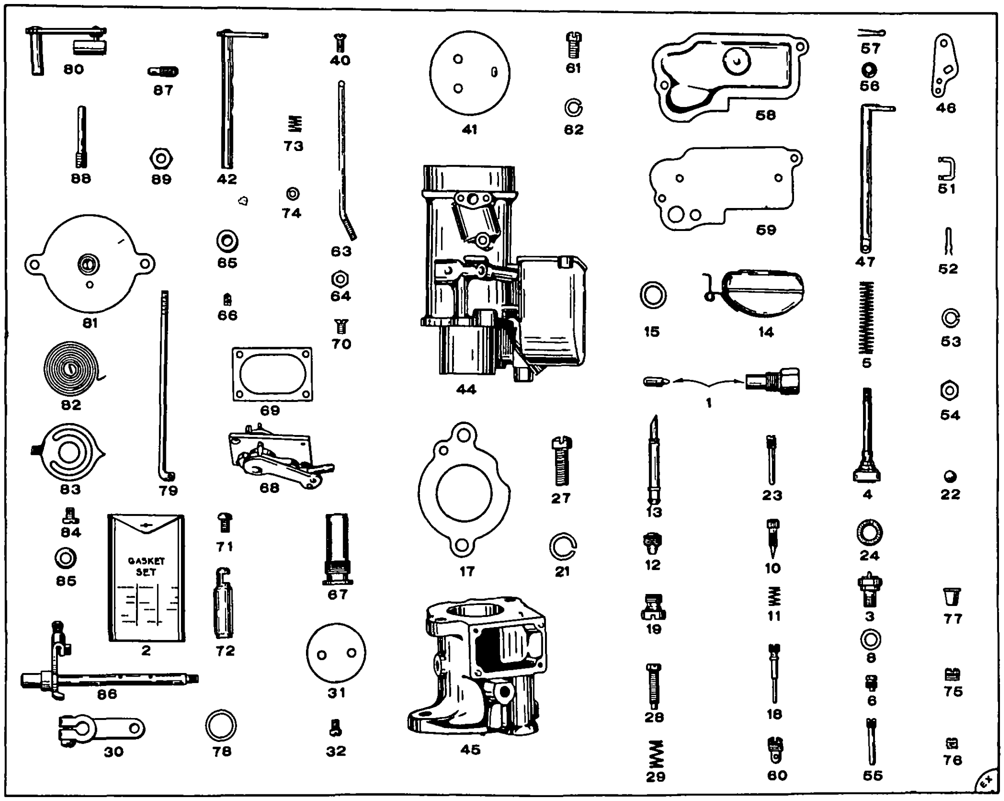


Fig. 4—Engine Flooded—Throttle Open

ENGINE FLOODED—THROTTLE OPEN

Should the engine become flooded for any reason, the choke valve "H" can be manually opened by kicking the throttle pedal wide open. This action rotates throttle lever "A" in anti-clockwise direction to bring it in contact with Ear "N" of fast idle cam "C". The weighted end of the cam hits against ear "B" of choke lever "D", which pulls down connecting rod "S" and forces choke valve "H" to open.

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No.	Part No.	Part Name	
	1	**P 18916**	Float Needle Valve & Seat— 086	**(NOT VAR)**
	2	**J-4384 G**	Complete Gasket Set	
	3	**P 18149**	Power By Pass Jet No 56	**(NOT VAR)**
	4	**P 19167**	Pump Piston and Stem	**(Includes P 16960)**
	5	**P 18215**	Spring—Pump Duration	
	6	**P 18144**	Pump Inlet Check Valve	
	8	**P 6855**	Gasket—By Pass Jet	
	10	**P 17402**	Idle Needle Valve	
	11	**P 15481**	Spring—Idle Needle Valve	
	12	**P 17004**	Metering Jet **061"**	**(VAR)**
	13	**P 20969**	Main Discharge Jet No 32	**(NOT VAR)**
	14	**P 17486**	Float with Lever	
	15	**P 10666**	Gasket—Float Needle Valve & Main Disch Plug	
	17	**P 16943**	Gasket—Main Body	
	18	**P 17007**	Idle Tube No 70	**(NOT VAR)**
	19	**P 18130**	Plug—Main Discharge Jet	
	21	**P 8838**	Lockwasher—Main Body Attach Screw	
	22	**P 18772**	Lead Ball	
	23	**P 18125**	Fulcrum Screw—Float Lever	
	24	**P 16960**	Spring—Pump Piston Leather Expansion	
	27	**P 17000**	Screw—Main Body Attaching	
	28	**P 19103**	Screw—Throttle Stop	
	29	**P-15831**	Spring—Throttle Stop Screw	
	30	**P 13427**	Throttle Lever and Screw	
		P 3199	Throttle Lever Clamp Screw	
	31	**P 6454**	Throttle Valve (18½°)	**(VAR)**
	32	**P 16717**	Screw—Throttle Valve Attach	
	40	**P-4522**	Screw—Choke Valve Attach	
	41	**P-20912**	Choke Valve	
	42	**P 19584**	Choke Lever and Stem	
	44	**P 20682 T**	Main Body **1 5/32"** Venturi **No 70** High Speed Bleeder	**(VAR)**
	45	**P 20919**	Assy —Throt Body **No 56 68** Idle Disch Holes	**(VAR)**
		P 18970	Auto Choke Unit Attach Pin	
	46	**P 18358**	Pump Lever	
	47	**P 19165**	Pump Rod	
	51	**P 18141**	Pump Link	
	52	**P 18114**	Cotter Pin—Pump Link	

NOTE—For parts marked (VAR) size must be specified when ordering

Bin Location	Key No	Part No	Part Name	
	53	**P 1791**	Lockwasher—Pump Lever Attach Nut	
	54	**P 2290**	Nut—Pump Lever Attach	
	55	**P 18126**	Pump Discharge Nozzle **No 66**	**(VAR)**
	56	**P 18135**	Nut—Pump Piston Stem	
	57	**P 4**	Cotter Pin—Pump Stem	
	58	**P 18124 F**	Float Chamber Cover	
	59	**P 17778**	Gasket—Float Chamber Cover	
	60	**P 15477**	Idle Air Bleeder **No 54**	**(VAR)**
	61	**P 2866**	Screw—Float Cover Attach	
	62	**P 12167**	Lockwasher—Float Cover Attach Screw	
	63	**P 21189**	Fast Idle Rod	
	64	**P 19587**	Nut—Fast Idle Rod	
	65	**P 17081**	Collar—Choke Stem	
	66	**P 16161**	Set Screw— Collar	
	67	**P 19984**	Auto Choke Piston Sleeve	
	68	**P 19580**	Automatic Choke Unit	
		P 19575	Ball Joint	
	69	**P 19124**	Gasket—Auto Choke	
	70	**P 19105**	Screw—Auto Choke Attach	
	71	**P 2369**	Screw—Auto Choke Piston Stop	
	72	**P 19988**	Piston—Auto Choke	
	73	**P 19774**	Spring—Choke Valve Anti Rattle Spring	
	74	**P 17259**	Bushing—Choke Lever Spacer	
	75	**P 21053**	Drive Plug—Pump Discharge Channel	
	76	**P 6387**	Plug—Idle Disch Channel No 10	
	77	**P 15459**	Drive Plug—Idle Discharge Channel ¼	
	78	**P 19310**	Gasket—Auto Choke Piston Sleeve	
	79	**P 20934**	Choke Rod	
	80	**P-20933**	Thermo Lever and Stem	
		P 19575	Ball Joint	
	81	**P 20931**	Thermostat Cover	
	82	**P 20718**	Thermostat Spring	
	83	**P 20834**	Thermostat Bracket	
	84	**P 20618**	Screw—Thermo Bracket Attach	
	85	**P 16426**	Therm Stem Washer	
	86	**P 20913**	Throttle Stop and Stem	
	87	**P 19539**	Auto Choke Pin	
	88	**P 19986**	Pin—Piston—Adj	
	89	**P 19587**	Nut—Auto Choke	

BENDIX PRODUCTS DIVISION
SOUTH BEND **OF BENDIX AVIATION CORPORATION** **INDIANA**

STROMBERG "EE-14" CARBURETOR

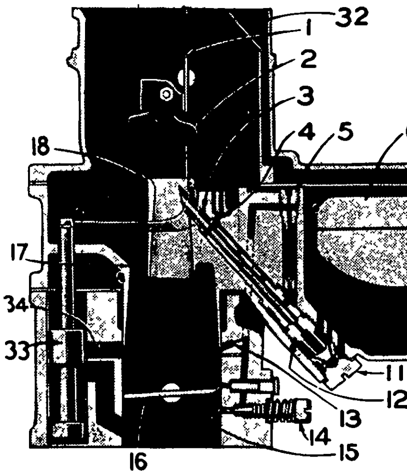
STROMBERG NO. A-17751 (CODE.NO. 9-4) GRAHAM SYMBOL NO. 81885

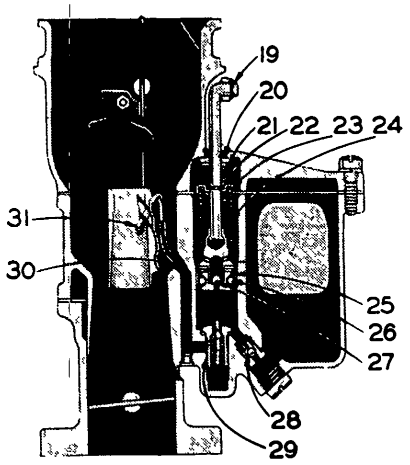
SIZE: 1" DUAL D. D. 4-HOLE FLANGE

1935
GRAHAM
MODEL
72
3⅛"x4"—8 cyl.

PARTS ILLUSTRATED

1 Choke Valve
2 Vacuum Piston Link
3 Main Discharge Jet
4 High Speed Bleeder
5 Idle Tube
6 Float
7 Float Needle Valve
8 Float Needle Valve Seat
9 Gasoline Inlet
10 Float Fulcrum Pin
11 Main Discharge Jet Plug
12 Main Metering Jet
13 Idle Air Bleeder
14 Idle Needle Valve
15 Idle Discharge Holes
16 Throttle Valve
17 Primary Venturi
18 Auxiliary Venturi
19 Pump Piston Link
20 Dust Washer
21 Dust Washer Spring
22 Spring Retainer Lock
23 Spring Retainer Washer
24 Pump Duration Spring
25 Pump Piston
26 Pump Piston Expansion Spring
27 Pump Relief Valve
28 Pump Inlet Check Valve
29 Power By Pass Jet
30 Pump Discharge Nozzle Holder
31 Pump Discharge Nozzle
32 Float Chamber Vent
33 Automatic Choke Piston
34 Fast Idle Air Passage





Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **15/32"** below top surface of float chamber (without gasket) at 3 lbs. pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level.)

MAIN METERING SYSTEM—Venturi **1-1/32"**; Main Discharge Jet **No. 32** P-20940 **(Tool T-24925)**; High Speed Bleeder **No. 70** (in body); Main Metering Jet **.048"** **P-19442 (Tool T-24924); Use Tool T-19099 Screw Driver for removing main jet plug. Main metering system controls the flow of fuel up to approximately** 65 to 70 M. P. H.

POWER SYSTEM—Combination Power and Pump By-Pass Jet **No 64** P-19523. Pump piston to rest on seat of By-Pass Jet (less over-travel) with throttle valve opened **21/64" + — 1/64"** (measure with shank end of **21/64"** drill) adjust by bending pump fulcrum arm at ball joint end. The Power Jet is brought into action at approximately 65 to 70 M. P. H.

AÇCELERATION—Pump Discharge Nozzles **No. 65**; Pump capacity **9** to **13** c.c. per 10 fast strokes and **18** to **22** c.c. per 10 slow strokes **(Tool T-24972).** Pump action takes place during acceleration period only.

IDLE SYSTEM—Idle Discharge Holes **No. 54-60**; with throttle valve fully closed and **No. 60** drill in idle hole, edge of valve is located **.030" + — .004"** from **No. 60** drill; Idle Air Bleed **No. 54** (in throttle body); Idle Tube **No. 55** P-20419. **Adjustment:** Adjust to smooth running, one barrel at a time, OUT to make richer and IN to make leaner. Throttle at 7 to 8 M. P. H.

VACUUM SPARK CONTROL—With throttle fully closed and **No. 58** drill in spark hole, edge of valve is located **.040"** from **No. 58** drill.

FLANGE GASKET—P-22392.

SPECIAL TOOLS REQUIRED—T-24733 Float Adjuster; T-24967 Main Discharge Jet Remover; T-24924 Main Metering Jet Wrench; T-24970 By-Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burrette Gauge; T-24968 Handle; T-19099 Main Jet Plug Screw Driver.

MOTOR TUNE-UP DATA

SPARK PLUGS—.025".
Clean and adjust at regular intervals.

DISTRIBUTOR—.0125" to .0175".
Breaker gap set .0125" to .0175".
Replace if necessary.

VALVES—Intake: .010".
Exhaust: .010". **Engine hot.**

IGNITION TIMING—Breaker contacts to open for No. 1 cylinder when "IGN" mark on flywheel is in line with center of hole.

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

AUTOMATIC CHOKE CONTROL

GENERAL DESCRIPTION

In the Stromberg Model EE-14 carburetor the automatic choke control, with the exception of the thermostat unit, is built integral with the carburetor The thermostat is attached to the manifold where it absorbs heat from the exhaust gas to govern its tension The principles of operation are the same as previously used on Graham models namely manifold vacuum, heat on a thermostat spring and offset choke valve in the carburetor The vacuum piston is used to open the choke valve when the engine begins to fire It is directly connected to the choke valve while the thermostat spring is connected to the choke stem The fast idle feature is accomplished by internal channels supplying additional fuel below the throttle valve during the cranking and warming up periods Figs 1 to 4 show the automatic choke control and fast idle in the various stages of operation

OPERATIONS AND ADJUSTMENTS

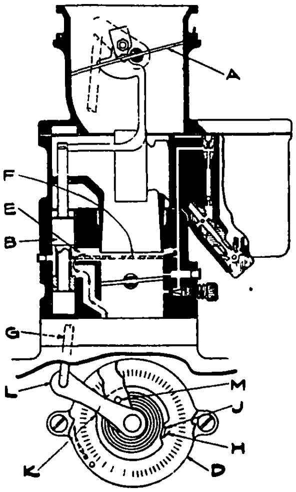


FIG. 1

CHOKE CLOSED—FAST IDLE—COLD ENGINE

When the engine becomes cold the thermostat also cools and gradually gains sufficient tension to close the choke valve "A" With this action the vacuum piston "B" being directly connected to the choke valve is raised to its upper position and opens fast idle passage 'E' so that air is drawn through "E" during the cranking and fast idle periods The air flow through "E" draws fuel from passage "F" to supply an additional mixture for fast idle the mixture following the path of the arrows While the engine is being cranked the choke valve and vacuum piston remain in the position as shown in Fig 1

ADJUSTING THERMOSTAT

To adjust the thermostat, it is necessary to remove the complete unit 'D' from the manifold

1 Allow the thermostat to cool or warm until it has the temperature of 70° **THIS IS VERY IMPORTANT.**

2 After it has reached 70° temperature, unhook the thermostat spring "H" from prong "J", and revolve indicator point 'K' to the zero marking on the thermostat plate In this position the hook of the thermostat should come flush with prong "J" of the indicator

3. Indicator pointer "K" should then be revolved to the prick punch marking which is 15 notches rich and is the original setting made at the factory If thermostat hook does not come flush against prong 'J', when pointer "K" is at zero, it will be necessary to re-calibrate the thermostat as follows

4 With lever "L' held against screw "M" revolve pointer "K" so that hook of the thermostat comes flush with prong "J" This will then place pointer "K" at a different position and will be the new zero location This should be stamped on the thermostat plate and the old marking obliterated

5 Hook the spring onto prong "J" and revolve pointer "K" 15 notches rich Fasten screw "M" securely

6 Re-install thermostat unit 'D' in manifold and with choke valve "A' in closed position attach rod "G' to lever "L' holding lever against screw "M'

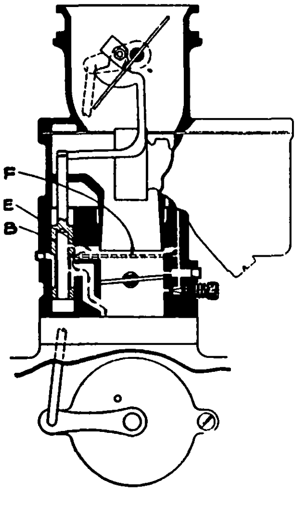


FIG. 2

CHOKE PARTIALLY OPEN—ENGINE FIRING—FAST IDLE

When the engine begins to fire and manifold vacuum is created, vacuum piston "B' is pulled down and opens choke valve "A' to admit sufficient air for a running mixture Fig 2 The travel of the piston is stopped by the upper side hole in the piston being exposed to air taken through passage "E", thereby reducing the vacuum pull on the piston The mixture of air and fuel from passages 'E and "F' provide the fast idle feature

ENGINE WARM—SLOW IDLE

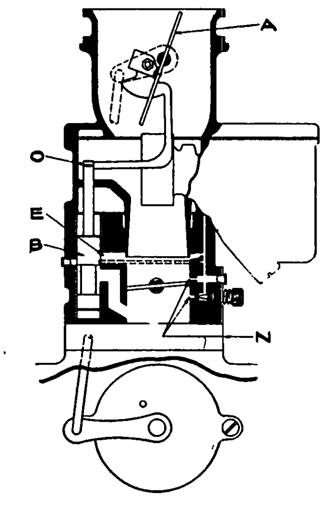


FIG. 3

The choke valve in the carburetor being off center continues to open by the force of the inrushing air. The amount of opening is controlled by the tension of the thermostat spring until the thermostat absorbs sufficient heat so that it will not offer any resistance. As the choke valve "A" opens it allows the vacuum piston "B" to lower until the piston closes passages "E" and "F" which eliminates the fast idle. Fuel is then only taken through the regular idle discharge holes "N". Fig. 3.

CHOKE WIDE OPEN—SLOW IDLE

When engine reaches normal operating temperature the choke valve "A" will be in wide open position and engine at slow idle. Fig. 4. The throttle stop screw should be adjusted to a speed of 7 to 8 miles per hour. This is the only adjustment that is necessary with relation to the idle speed of the engine.

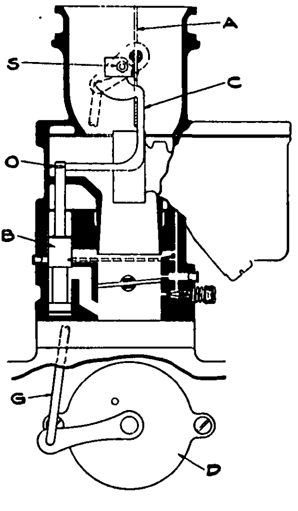


FIG. 4

SERVICE ITEMS

For the satisfactory performance of any automatic choke control all parts MUST MOVE FREELY AND NOT BIND OR STICK in any position through the range of their travel. When servicing the automatic choke control of the Model EE-14 carburetor, there are several items that should receive attention. If difficulty is experienced with starting or a visual inspection indicates binding of the parts, the unit should be completely dis-assembled and the parts checked in the following manner:

Remove the carburetor from the manifold and dis-assemble the throttle body from the main body. This permits disconnecting vacuum piston from the choke link. Remove choke valve and link assembly from air horn, being careful not to lose dust washer.

The next operation is to remove the plug from the bottom of the vacuum cylinder with a wood dowel which permits thorough cleaning of the cylinder wall. Clean alcohol, benzol, or gasoline should be used to remove any film that may be present. The vacuum piston should likewise be cleaned in the same manner.

CAUTION NOTE: DO NOT USE OIL OR ANY LUBRICANT ON PISTON OR IN CYLINDER, AS IT MAY CONGEAL AND HINDER FREE MOVEMENT. A new plug, P-20782, should then be assembled at the bottom of the vacuum cylinder. Use the ball-peen end of a machinist's hammer to assemble the plug, but do not exert excessive force.

Place dust washer on choke link with rounded edge down and in position to conform with the main body contour. Vacuum piston should then be connected to choke link with the bleeder hole in the side of the piston toward the barrel of the carburetor. A new, P-20973, cotter pin should be used and the ends formed snugly around the piston stem.

The throttle body, main body and air horn should then be assembled together. Hold choke valve closed, centering it in the air horn and fasten screws lightly. Open and close choke valve several times to make certain that the choke link does not bind or wobble. Fasten screws securely and with heavy pliers upset the ends of the screws to lock them in place.

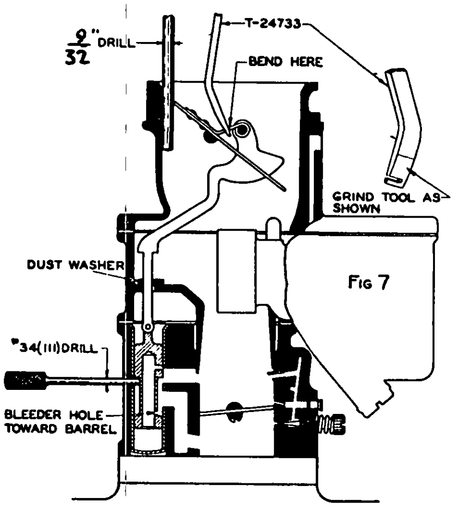
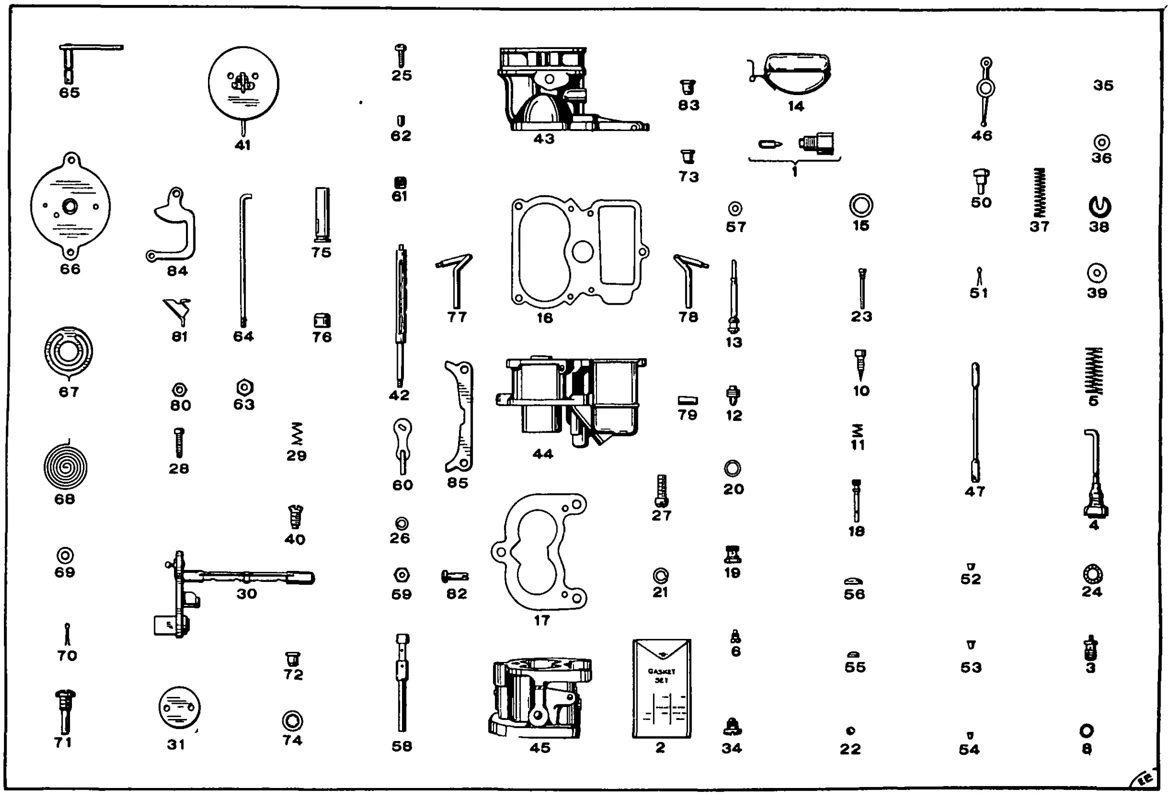


FIG. 5

Referring to Fig. 5 the pull of the vacuum piston should be checked by placing the shank of a NEW **No. 34 (.111")** drill in the gauge hole. The choke valve should then be opened until the piston comes to rest on the **No. 34** drill. In this position the choke valve should be opened so that a **9/32"** drill can be placed between the valve and the air horn as illustrated. If the amount of opening is not correct, it can be changed by loosening choke link nut and making adjustment accordingly. (NOTE: The above illustration shows solid link type which is similar to that used on Graham models.)



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No.	Part No.	Part Name	
	1	**P-19867**	Float Needle Valve & Seat- 113	**(NOT VAR.)**
	2	**J-4540-G**	Complete Gasket Set	
	3	**P-19523**	Power By-Pass Jet No 64	**(NOT VAR.)**
	4	**P-20440**	Pump Piston and Link	**(Includes P 16960)**
	4-A	**P-20441**	Pump Piston, Link and Spring (Complete)	
	5	**P-19458**	Spring—Pump Duration	
	6	**P-18144**	Pump Inlet Check Valve	
	8	**P-19448**	Gasket—By-Pass Jet	
	10	**P-15478**	Idle Needle Valve	
	11	**P-15481**	Spring—Idle Needle Valve	
	12	**P-19442**	Metering Jet **.048"**	**(VAR.)**
	13	**P-20940**	Main Disch Jet No 32	**(NOT VAR.)**
	14	**P-19825**	Float With Lever	
	15	**P-10666**	Gasket—Float Needle Valve Seat	
	16	**P 19428**	Gasket—Air Horn	
	17	**P-20828**	Gasket—Main Body	
	18	**P-20419**	Idle Tube No 55	**(NOT VAR.)**
	19	**P-20447**	Plug—Main Discharge Jet	
	20	**P-7338**	Gasket—Main Disch Jet & Check Valve Plug	
	21	**P-3157**	Lockwasher—Main Body Attaching Screw	
	22	**P-18772**	Lead Ball—[illegible]"	
	23	**P-18125**	Screw—Fulcrum—Float Lever	
	24	**P-16960**	Spring—Pump Piston Leather Expansion	
	25	**P-3199**	Screw—Air Horn Attaching	
	26	**P-1791**	Lockwasher—Air Horn Attaching Screw	
	27	**P-709**	Screw—Main Body Attaching	
	28	**P-15456**	Screw—Throttle Stop	
	29	**P-15831**	Spring—Throttle Stop Screw	
	30	**P-20939**	Throttle Lever and Stem	
		P-19509	Ball Joint Connector	
	31	**P-20720**	Throttle Valve (5°)	**(NOT VAR.)**
	34	**P-19716**	Plug—Check Valve	
	35	**P-17380**	Washer—Felt—Pump Link	
	36	**P-17060**	Washer—Splash—Pump Link	
	37	**P-19488**	Spring—Packing Retainer	
	38	**P-22045**	Washer—Horseshoe	
	39	**P-22046**	Washer—Spring Retainer	
	40	**P-4522**	Screw—Choke Valve & Throt Valve Attach	
	41	**P-21010**	Choke Valve	
		P-20759	Assy Choke Valve	
	42	**P-20953**	Choke Stem	
	43	**P-20991**	Air Horn with Vent	
	43-A	**P 20938**	Assy —Air Horn and Valve	
	44	**P-20836**	Main Body—**1-1/32"** Venturi—**No. 70** High Speed Bleeder **No. 65** Pump Disch Tubes	**(VAR.)**
	45	**P 20988**	Throttle Body **No. 54-60** Idle Disch Holes **No. 58** Spark Control Hole **No. 54** Idle Air Bleed	**(VAR.)**
		P-20470	Idle Air Reducer No 54	**(NOT VAR.)**
	46	**P-19533**	Pump Lever	
	47	**P 19420**	Pump Rod	
	50	**P-20611**	Screw —Pump Lever Fulcrum	
	51	**P-7170**	Cotter Pin —Pump Link	
	52	**P-20884**	Plug —Vac Piston	
	53	**P-15458**	Plug— Idle Disch Holes	
	54	**P 15457**	Plug- Vac Piston Channel	
	55	**P-21054**	Plug—Vac Piston Channel	
	56	**P 20782**	Plug— Vac Piston Channel	
	57	**P-20421**	Gasket Main Disch Jet- -Lead	
	58	**P-20929**	Vacuum Piston	
	59	**P 2290**	Nut —Choke Lever Attach	
	60	**P 20946**	Choke Lever	
		P-19575	Ball Joint	
	61	**P-20766**	Bearing Choke Stem Screw	
	62	**P 15287**	Set Screw- Choke Stem Screw Bearing	
	*63	**P 19587**	Nut- Choke Rod	
	*64	**P 20936**	Choke Rod	
	*65	**P-20254**	Thermostat Lever & Stem	
	*66	**P-20942**	Thermostat Cover and Bushing	
	*67	**P 20834**	Bracket	
	*68	**P-20718**	Thermostat	
	*69	**P-16426**	Washer—Thermostat	
	*70	**P-4**	Cotter Pin Thermostat Washer	
	*71	**P-20618**	Screw Bracket Adj	
		***P 20935**	Assy Thermostat	
	72	**P 20454**	Plug -Vac Piston Channel	
	73	**P 20882**	Screw Vac Piston Lever Fulcrum	
	74	**P-20883**	Lockwasher -Vac Piston Lever Ful Screw Nut	
	75	**P 20767**	Bushing Choke Stem	
	76	**P 20768**	Bushing Choke Stem Bearing	
	77	**P-20435**	Tube Pump Disch (Right) No 65	**(NOT VAR.)**
	78	**P-20436**	Tube Pump Disch (Left) No 65	**(NOT VAR.)**
	79	**P-19430**	Wedge Pump Tube	
	80	**P-9283**	Nut —Vac Piston Lever Fulcrum Screw	
	81	**P 20608**	Vent—Float Chamber	
	82	**P 20973**	Rivet —Vac Piston	
	83	**P 15459**	Plug— Vac Spark Control	
	84	**P 20760**	Lever —Vac Piston	
	85	**P-20951**	Baffle Plate	

NOTE—For parts marked (VAR.) size must be specified when ordering

* Parts furnished separate with each carburetor, when specified on order

BENDIX PRODUCTS DIVISION
SOUTH BEND **OF BENDIX AVIATION CORPORATION** **INDIANA**

STROMBERG "EX-32" CARBURETOR

STROMBERG NO. A-17743 (CODE NO. "9-3") GRAHAM SYMBOL 80954

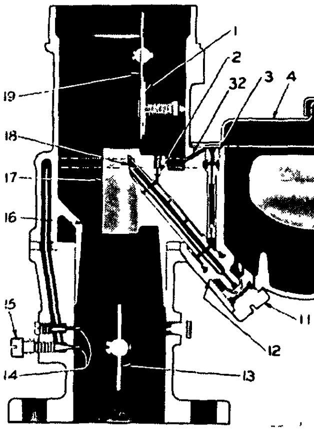
SIZE: 1½" D. D. S.A.E. 2-15/16" FLANGE CENTERS

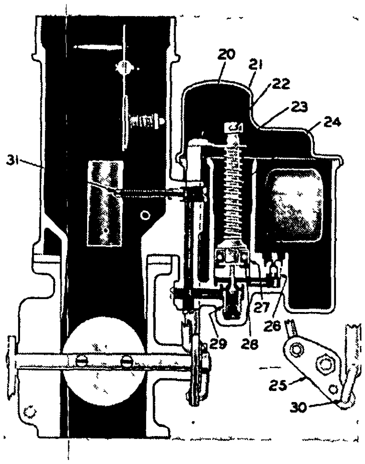
REPLACE WITH EXV-3 EQPT. J-5469

1934-35 GRAHAM

MODELS
1934—8, 69
1935—8, 75
3¼"x4"—8 cyl.

PARTS ILLUSTRATED





1. Poppet Valve
2. High Speed Bleed
3. Idle Tube
4. Float Chamber Cover
5. Float Chamber Vent
6. Float
7. Float Needle Valve
8. Float Needle Valve Seat
9. Gasoline Inlet
10. Float Fulcrum Pin
11. Main Discharge Jet Plug
12. Main Metering Jet
13. Throttle Valve
14. Idle Discharge Holes
15. Idle Needle Valve
16. Primary Venturi
17. Auxiliary Venturi
18. Main Discharge Jet
19. Choke Valve
20. Pump Rod
21. Power Adjustment Nut
22. Cotter Pin
23. Piston Connecting Rod
24. Connecting Rod Spring
25. Pump Lever
26. Check Valve
27. Pump Piston
28. Pump Piston Spring
29. Power By-Pass Jet
30. Pump Lever Link
31. Pump Discharge Nozzle

Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **9/16"** below top surface of float chamber (without gasket) at 3 lbs. pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level.)

MAIN METERING SYSTEM—Venturi **1-5/16";** Main Discharge Jet **No. 28** P-19798 **(Tool T-24967);** High Speed Bleeder **No. 70** (in body); Main Metering Jet **.069"** P-17004 **(Tool T-23844).** Use **Tool T-19099** to remove Main Jet Plug; Main Metering System controls the flow of fuel up to approximately 65 to 70 M. P. H.

POWER SYSTEM—Combination Power and Pump By-Pass Jet **4 No. 56** P-18149. Pump piston to rest on seat of by-pass jet (less over-travel) with throttle valve opened **27/64"** (measure with shank end of **27/64"** drill) adjust pump stem nut to obtain correct setting; the Power Jet is brought into action at approximately 65 to 70 M. P. H.

ACCELERATION—Pump Discharge Nozzle **No. 65** P-18126; Pump capacity **20** to **25** c.c. per 10 strokes (maximum setting). Use **Tool T-24972;** Pump action takes place during acceleration period only.

IDLE SYSTEM—Idle Discharge Holes **No. 56-58;** with throttle valve fully closed and **No. 58** drill in idle hole, edge of valve is located **.012" + — .004"** from **No. 58** drill; Idle Air Bleed **No. 56** P-15477; Idle Tube **No. 70** P-17007; **Adjustment:** Adjust to smooth running, OUT to make richer and IN to make leaner. Throttle at 7 to 8 M. P. H.

VACUUM SPARK CONTROL—With throttle fully closed and **No. 55** drill in spark hole, edge of valve is located **.010"** from **No. 55** drill.

FLANGE GASKET—P-4753.

SPECIAL TOOLS REQUIRED—T-24733 Float Adjuster; T-24967 Main Discharge Jet Remover; T-23844 Main Metering Jet Wrench; T-24970 By-Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burrette Gauge; T-24968 Handle; T-19099 Main Jet Plug Screw Driver.

MOTOR TUNE-UP DATA

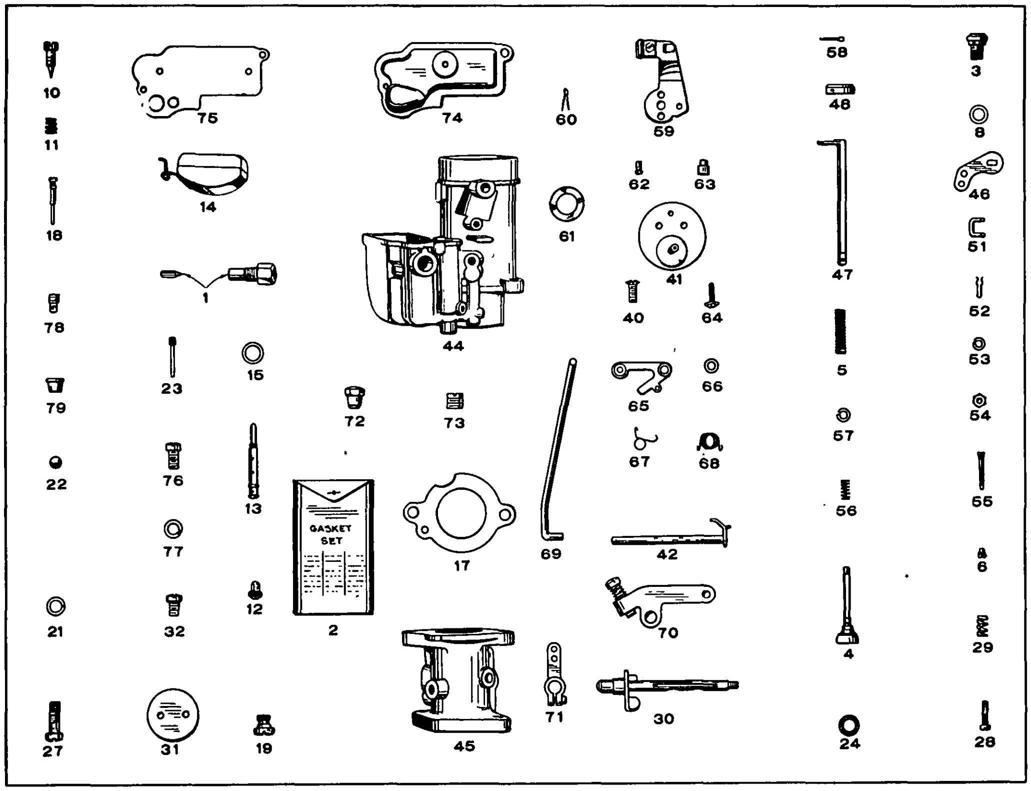
SPARK PLUGS—.025".
Clean and adjust at regular intervals.

DISTRIBUTOR—.0125" to .0175".
Break r gap set .0125" to .0175".
Replace if necessary.

VALVES—Intake: .010";
Exhaust: .010". Engine hot.

IGNITION TIMING—Stationary contact points to open for No. 1 cylinder when marks S-A-1 on flywheel is in line with center of hole (Model "75"). On Model "69" stationary contacts open 6° before top dead center at flywheel mark.

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that the rmostat is properly positioned.



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No.	Part No.	Part Name
	1	**P-19869**	Float Needle Valve and Seat—.130"....**(NOT VAR.)**
	2	**J-4364-G**	Complete Gasket Set
	3	**P-18149**	Power By-Pass Jet No.56 ....**(NOT VAR.)**
	4	**P-18140**	Pump Piston and Stem **(Includes P-16960)**
	5	**P-18221**	Spring—Pump Duration (Upper)
	6	**P-18144**	Check Valve—Pump Inlet
	8	**P-6855**	Gasket—By Pass Jet
	10	**P-17402**	Idle Needle Valve
	11	**P-15481**	Spring—Idle Needle Valve
	12	**P-17004**	Metering Jet—**.069"** ....**(VAR.)**
	13	**P-19798**	Main Disch. Jet No. 28 ....**(NOT VAR.)**
	14	**P-17486**	Float with Lever
	15	**P-10666**	Gasket—Float Needle Valve and Main Disch. Jet Plug
	17	**P-17557**	Gasket—Main Body
	18	**P-17007**	Idle Tube No. 70 ....**(NOT VAR.)**
	19	**P-18130**	Plug—Main Discharge Jet
	21	**P-8838**	Lockwasher—Main Body Attaching Screw
	22	**P-18772**	Lead Ball
	23	**P-18125**	Fulcrum Pin—Float Lever
	24	**P-16960**	Spring—Pump Piston Leather Expansion
	27	**P-17000**	Screw—Main Body Attaching
	28	**P-15456**	Screw—Throttle Stop
	29	**P-15831**	Spring—Throttle Stop Screw
	30	**P-19796**	Throttle Stem and Stop
	31	**P-5436**	Throttle Valve **(20°)** ....**(VAR.)**
	32	**P-16716**	Screw—Throttle Valve Attaching
	40	**P-4522**	Screw—Choke Valve Attaching
	41	**P-18815**	Choke Valve
	42	**P-18266**	Choke Stem and Stop
	44	**P-19803-R**	Assy—Main Body **1-5/16"** Venturi **No. 70** H. S. Bleeder ....**(VAR.)**
	45	**P-19793**	Assy.—Throttle Valve Body **No. 56-58** Idle Disch. Holes **No. 55** Spark Hole ....**(VAR.)**
	46	**P-19794**	Pump Lever
	47	**P-19165**	Pump Rod
	48	**P-18135**	Pump Rod Nut

NOTE—For parts marked (VAR.) size must be specified when ordering.

Bin Location	Key No.	Part No.	Part Name
	51	**P-18141**	Pump Link
	52	**P-18114**	Cotter Pin—Pump Link
	53	**P-1791**	Lockwasher—Pump Lever Attach. Nut
	54	**P-2290**	Nut—Pump Lever Attach.
	55	**P-18126**	Pump Discharge Nozzle **No. 65** ....**(VAR.)**
	56	**P-18223**	Spring—Pump Duration (Lower)
	57	**P-4735**	Washer—Pump Duration Spring Separator
	58	**P-4**	Cotter Pin—Pump Rod
	59	**P-17067**	Assy.—Tube Holder
		P-17051	Tube Holder
		P-11561	Tube Holder Clamp
		P-12868	Tube Holder Clamp Screw
		P-8806	Tube Holder Clamp Screw Nut
	60	**P-6666**	Cotter Pin—Choke Stem
	61	**P-14849**	Spring Washer—Loose Lever
	62	**P-17093**	Screw—Tube Holder Attach.
	63	**P-17058**	Bushing—Choke Lever Fulcrum
	64	**P-17059**	Screw—Choke Lever Fulcrum
	65	**P-19787**	Lever with Wire Connector and Screw
		P-10981	Wire Conn. Screw
	66	**P-17449**	Washer—Choke Stem
	67	**P-19776**	Spring—Choke Valve Return
	68	**P-17132**	Spring—Choke Lever Return
	69	**P-19791**	Rod—Throttle Cracking
	70	**P-19789**	Loose Lever—Throttle Cracking
		P-19790	Lever
		P-15301	Spring
		P-23474	Screw
	71	**P-19784**	Throttle Lever with Clamp Screw
		P-3199	Clamp Screw
	72	**P-21053**	Drive Plug
	73	**P-6387**	Screw Plugs 10-32
	74	**P-18124-F**	Float Chamber Cover
	75	**P-17778**	Gasket—Float Chamber Cover
	76	**P-2866**	Screw—Float Cover Attachment
	77	**P-12167**	Lockwasher—Float Cover Attaching Screw
	78	**P-15477**	Idle Air Bleed **No. 56** ....**(VAR.)**
	79	**P-15459**	Drive Plug—1/4"

BENDIX PRODUCTS DIVISION

SOUTH BEND OF BENDIX AVIATION CORPORATION **INDIANA**

STROMBERG CARBURETOR

Parts and Technical Information

HUDSON

Equipment No.	Type	Year	Models
J-5481	BXOV-25	1934-37	6 and 8
J-5481	BXOV-25	1939	"92"

Use Standard A-19112 BXOV-25 Carburetor Parts except—

Use P-10641 Throttle Lever (Key No. 73) in place of P-23215
P- 3221 Union (Key No. 93) in place of P-17481.

Extra parts not illustrated—P-23331 Rod

For complete Technical and Parts information refer to Standard Section BXOV-25 Carburetor—Form 10C-632

J-5396	EXV-2	1938-39	112

Use Standard A-18762 EXV-2 Carburetor Parts except—

Use P-23232 .052″ Adjustable Metering Jet (Key No 82) in place of P-23232 .051″
P-17004 .052″ Metering Jet (Key No. 12) in place of P-17004 .051″
P-19874 Idle Tube (Key No. 18) in place of P-19424
P-21171 Throttle Lever and Stem (Key No. 30) in place of P-23166.

Extra Parts not illustrated—P-2714 Street Elbow
P-15456 Idle Adjustment Screw
P-15831 Idle Adjustment Screw Spring
P-23331 Rod

For complete Technical and Parts information refer to Standard Section EXV-2 Carburetor—Form 10C-625 for carburetors with dome high speed bleeder and Form 10C-626 for carburetors without dome high speed bleeder.

J-5403	EXV-25	1938-39	112

Use Standard A-18742 EXV-25 Carburetor Parts except—

Use P-19874 Idle Tube (Key No. 18) in place of P-19424
P-21171 Throttle Lever and Stem (Key No. 30) in place of P-23166

Extra Parts not illustrated—P-15456 Idle Adjustment Screw
P-15831 Idle Adjustment Screw Spring

For complete Technical and Parts information refer to Standard Section EXV-25 Carburetor—Form 10C-621 for carburetors with dome high speed bleeder and Form 10C-622 for carburetors without dome high speed bleeder.

STROMBERG "BXOV-2" CARBURETOR

STROMBERG NO. J-5444 (CODE NO. 22-11) BASIC CARBURETOR A-19042

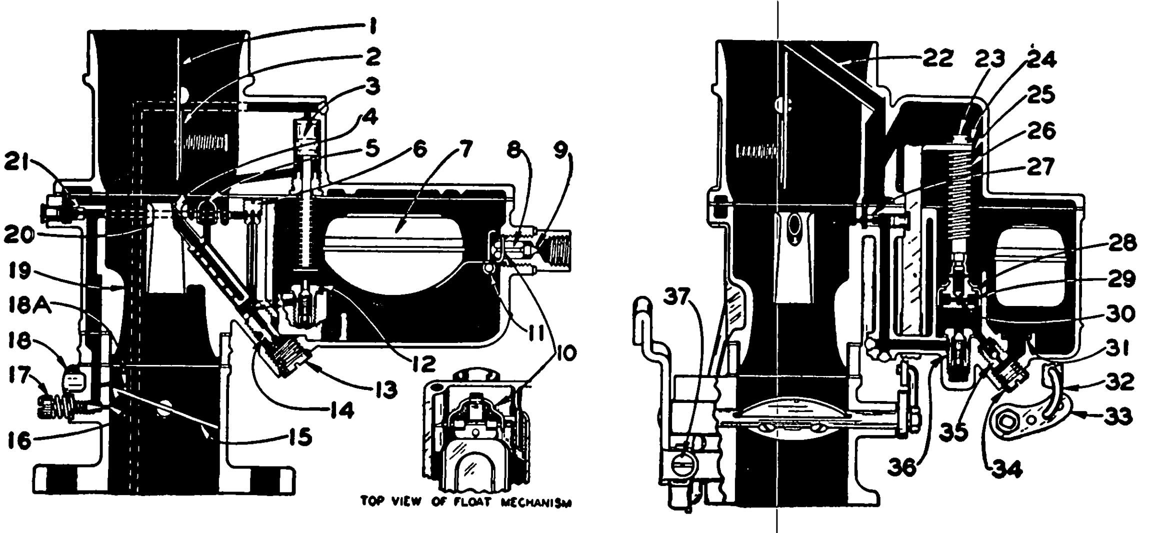
SIZE: 1-3/8" D. D. S.A.E. 2-11/16" FLANGE CENTER

1934-36
HUDSON

(Replacement Equipment)
MODELS
6 and 8

PARTS ILLUSTRATED

1. Choke Valve
2. Choke Relief Valve
3. Vacuum Power Piston
4. Main Discharge Jet
5. High Speed Bleeder
6. Idle Tube
7. Float
8. Float Needle Valve
9. Float Needle Valve Seat
10. Float Fulcrum Pin Clip
11. Float Fulcrum Pin
12. Power By-Pass Jet
13. Main Jet Plug
14. Main Metering Jet
15. Throttle Valve
16. Idle Discharge Holes
17. Idle Needle Valve
18. Vacuum Spark Conn.
18A. Vacuum Spark Hole
19. Primary Venturi
20. Auxiliary Venturi
21. Idle Air Bleed
22. Float Chamber Vent
23. Piston Conn. Rod
24. Cotter Pin
25. Pump Piston Rod
26. Pump Duration Spring
27. Pump Discharge Nozzle
28. Pump Piston



29. Pump Piston Exp. Spring
30. Pump Relief Valve
31. Pump Inlet Strainer
32. Pump Link
33. Pump Lever
34. Pump Inlet Plug
35. Pump Inlet Check Valv
36. Pump By-Pass Jet
37. Throttle Stop Screw

Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **5/8"** below top surface of float chamber (without gasket) at 3 lbs. pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level).

MAIN METERING SYSTEM—Venturi **1-5/32"**; Main Discharge Jet **No. 28-36** P-24036 (**Tool T-24967**); High Speed Bleeder **No. 68** P-24315. Main Metering Jet **.060"** P-19442 (Tool T-24924); Adjustable Metering Jet **.060"** P-24268. Main metering system controls the flow of fuel up to approximately 65 to 70 M.P.H.

POWER SYSTEM—Power By-Pass Jet **No. 54** P-21197; Power jet to come into operation at 4" to 6" of manifold vacuum, which is approximately 65 to 70 M.P.H. (**Tool T-24733**) used to remove vacuum power piston.

ACCELERATION—Pump Discharge Reducer **No. 70** in main body; Pump by-Pass Jet **2 No. 56**; Pump capacity **11** to **14** c.c. per 10 slow strokes with pump rod link set in middle setting. (**Tool T-24972**) Pump action takes place during acceleration period only.

IDLE SYSTEM—Idle Discharge holes **Nos. 56-58.** With throttle valve fully closed and **No. 58** drill in idle hole, edge of valve is located **Flush** + .006"-.000" from **No. 58** drill; Idle Air Bleed **No. 54** P-20470; Idle Tube **No. 70** P-21778. Adjustment: Adjust to smooth running, OUT to make richer and IN to make leaner; throttle at 7 to 8 M.P.H.

VACUUM SPARK CONTROL—Drill **2 No. 60** holes above throttle valve, **1 No. 60** hole drilled at random below valve. With throttle fully closed and **No. 60** drill in spark hole above valve, edge of valve is located **Flush** from **No. 60** drill.

FLANGE GASKET—P-24314—4 slots. P-24264—1 elongated slot—use with governor.

SPECIAL TOOLS REQUIRED—T-24733 Float. Adj. and power piston wrench T-24967 Main Discharge Jet Remover; T-24924 Main Metering Jet Wrench; T-24970 By-Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burrette Gauge; T-24968 Handle. T-19099 Main jet plug screwdriver.

MOTOR TUNE-UP DATA

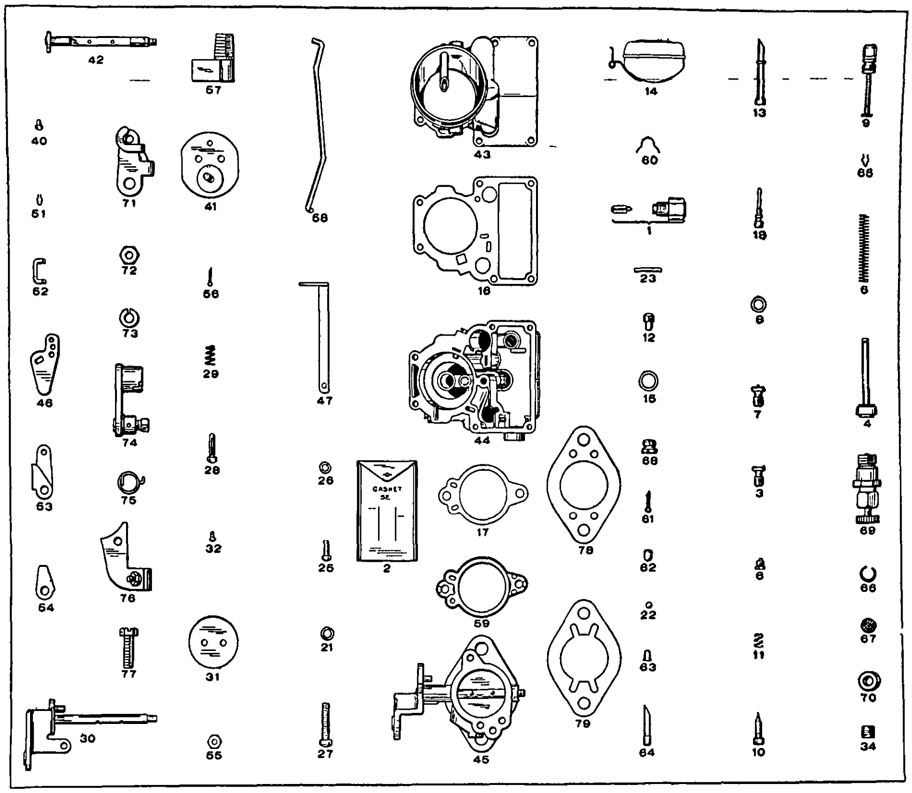
SPARK PLUG—
Clean and adjust at regular intervals.

DISTRIBUTOR—Set breaker gap.
Replace points if necessary.

VALVES—Intake, Exhaust.
Adjust with engine hot.

IGNITION TIMING—Use timing light.

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No	Part No	Part Name	
	1	**P-24063**	Float Needle Valve and Seat 086"	(**NOT VAR**)
	2	**J-5409-G**	Complete Gasket Set	
	3	**P-24062**	Pump By Pass Jet No 56	(**NOT VAR**)
	4	**P-24039**	Pump Piston and Stem (Complete)	
	5	**P-24287**	Spring—Pump Duration	
	6	**P-18144**	Pump Inlet Check Valve	
	7	**P-21197**	Power By Pass Jet No 54	(**NOT VAR**)
	8	**P-19448**	Gasket—By Pass Jet	
	9	**P-24043**	Vacuum Power Piston	
	10	**P-17402**	Idle Needle Valve	
	11	**P-15481**	Spring—Idle Needle Valve	
	12	**P-19442**	Metering Jet **058"**	(**VAR**)
	13	**P-24036**	Main Discharge Jet No 28 36	(**NOT VAR**)
	14	**P-22081**	Float with Lever	
	15	**P-10666**	Gasket—Float Needle Valve Seat	
	16	**P-24053**	Gasket—Air Horn	
	17	**P-24037**	Gasket—Main Body	
	18	**P-21778**	Idle Tube	
	19	**P-23902**	Plug—Main Discharge Jet	
	21	**P-3157**	Lockwasher—Main Body Attach Screw	
	22	**P-18772**	Lead Ball	
	23	**P-23272**	Pin—Fulcrum—Float Lever	
	25	**P-3199**	Screw—Air Horn Attach	
	26	**P-1791**	Lockwasher—Air Horn Attach Screw	
	27	**P-22025**	Screw—Main Body Attach	
	28	**P-15456**	Screw—Throttle Stop	
	29	**P-15831**	Spring—Throttle Stop Screw	
	30	**P-24234**	Throttle Lever and Stem	
	31	**P-24059**	Throttle Valve (20°)	(**NOT VAR**)
	32	**P-4522**	Screw—Throttle Valve Attach	
	34	**P-23269**	Plug—Check Valve Channel	
	40	**P-22573**	Screw—Choke Valve Attach	
	41	**P-24046**	Choke Valve	
	42	**P-24077**	Choke Lever and Stem	
	43	**P-24709**	Air Horn Assy	
	44	**P-24791**	Main Body **1-5/32"** Venturi **No 68** H S Bleeder **No 54** Idle Air Bleeder **No 70** Pump Discharge Tube	(**VAR**
		P-20470	Idle Air Bleed No 54	(**NOT VAR**)
	45	**P-24795**	Throttle Body with Pin **No 56-58** Idle Disch Holes **No 60** Spark Control Holes	(**VAR**)
	46	**P-23666**	Pump Lever	
	47	**P-24042**	Pump Rod	
	51	**P-19374**	Cotter Pin—Pump Link	
	52	**P-18369**	Pump Link	
	53	**P-23621**	Lever—Fast Idle	
	54	**P-23622**	Cam—Fast Idle	
	55	**P-2290**	Nut—Pump Lever Attach	
	56	**112-S-22**	Cotter Pin—Fast Idle Rod	
	57	**P-17481**	Elbow Union	
	58	**P-24060**	Rod—Fast Idle	
	59	**P-23857-T**	Spacer—Main Body Insulator	
	60	**P-23273**	Spring—Float Fulcrum Pin	
	61	**P-7170**	Cotter Pin—Fast Idle Lever	
	62	**P-24315**	High Speed Bleeder No 68	(**NOT VAR**)
	63	**P-15459**	Plug—Idle Air Bleed and Pump Disch Channel	
	64	**P-24045**	Vent Tube	
	65	**P-21338**	Cotter Pin—Pump Stem	
	66	**P-23271**	Spring Clip—Pump Strainer Screw	
	67	**P-23270**	Screen—Pump Strainer	
	68	**P-3292**	Plug—Governor Connection	
	69	**P-24268**	Adjustable Metering Jet	
	70	**P-24215**	Washer—Pump Stem	
	71	**P-24052**	Lever—Auto Choke	
	72	**P-16571**	Nut—Auto Choke Lever Attach	
	73	**P-6668**	Lockwasher—Auto Choke Lever Attach Nut	
	74	**P-24081**	Manual Choke Lever	
	75	**P-24080**	Spring—Manual Choke Lever	
	76	**P-24086**	Choke Tube Holder	
		P-2229	Screw—Choke Tube Clamp	
		P-2290	Nut—Choke Tube Clamp Screw	
		P-15875	Lockwasher—Choke Tube Clamp Screw	
	77	**P-24087**	Screw—Choke Tube Holder Attach	
	78	**P-24264**	Flange Gasket	
	79	**P-24314**	Flange Gasket	
			PARTS FURNISHED EXTRA	
		P-3221	Union	
		P-23331	Rod	

BENDIX PRODUCTS DIVISION

SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

Printed in U S A

STROMBERG "EX-32" CARBURETOR

STROMBERG NO. A-17533 (CODE NO. 19-1A) HUPMOBILE SYMBOL 87511

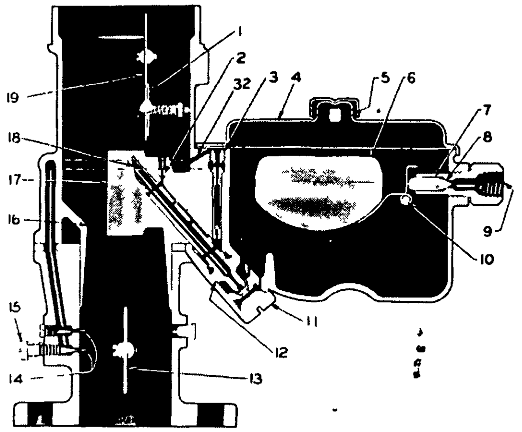
SIZE: 1½" D. D. S. A. E. 2-15/16" FLANGE CENTERS

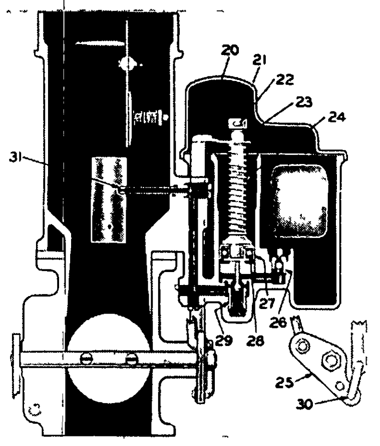
1934-35
HUPMOBILE

MODEL
D-518
3½"x4¼"—6 cyl.

PARTS ILLUSTRATED

1 Poppet Valve
2 High Speed Bleed
3 Idle Tube
4 Float Chamber Cover
5 Float Chamber Vent
6 Float
7 Float Needle Valve
8 Float Needle Valve Seat
9 Gasoline Inlet
10 Float Fulcrum Pin
11 Main Discharge Jet Plug
12 Main Metering Jet
13 Throttle Valve
14. Idle Discharge Holes
15 Idle Needle Valve
16 Primary Venturi
17 Auxiliary Venturi
18 Main Discharge Jet
19 Choke Valve
20 Pump Rod
21 Power Adjustment Nut
22 Cotter Pin
23 Piston Connecting Rod
24 Connecting Rod Spring
25 Pump Lever
26 Check Valve
27 Pump Piston
28 Pump Piston Spring
29 Power By-Pass Jet
30 Pump Lever Link
31 Pump Discharge Nozzle





Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **5/8"** below top surface of float chamber (without gasket) at 3 lbs. pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level.)

MAIN METERING SYSTEM—Venturi 1-5/16"; Main Discharge Jet **No. 28** P-17167 **(Tool T-24925);** High Speed Bleeder **No. 70** (in body); Main Metering Jet **.066"** P-17004 **(Tool T-23844).** Use **Tool T-19099** to remove main jet plug; Main Metering System controls the flow of fuel up to approximately 65 to 70 M. P. H.

POWER SYSTEM—Combination Power and Pump By-Pass Jet **4 No. 56** P-18149. Pump piston to rest on seat of by-pass jet (less over-travel) with throttle valve opened **27/64"** (measure with shank end of **27/64"** drill), adjust pump stem nut to obtain correct setting. The Power Jet is brought into action at approximately 65 to 70 M. P. H.

ACCELERATION — Pump Discharge Nozzle **No. 69** P-18126; Pump capacity **15** to **17** c.c. per 10 strokes (minimum setting). Use **Tool T-24972.** Pump action takes place during acceleration period only.

IDLE SYSTEM—Idle Discharge Holes **No. 56-58;** with throttle valve fully closed and **No. 58** drill in idle hole, edge of valve is located **.012" + — .004"** from **No. 58** drill; Idle Air Bleed **No. 52;** P-15477; Idle Tube **No. 70** P-17007. **Adjustment:** Adjust to smooth running, OUT to make richer and IN to make leaner. Throttle at 7 to 8 M. P. H.

FLANGE GASKET—P-4753.

SPECIAL TOOLS REQUIRED—T-24733 Float Adjuster; T-24925 Main Discharge Jet Remover; T-23844 Main Metering Jet Wrench; T-24970 By-Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burrette Gauge; T-24968 Handle; T-19099 Main Jet Plug Screw Driver.

MOTOR TUNE-UP DATA

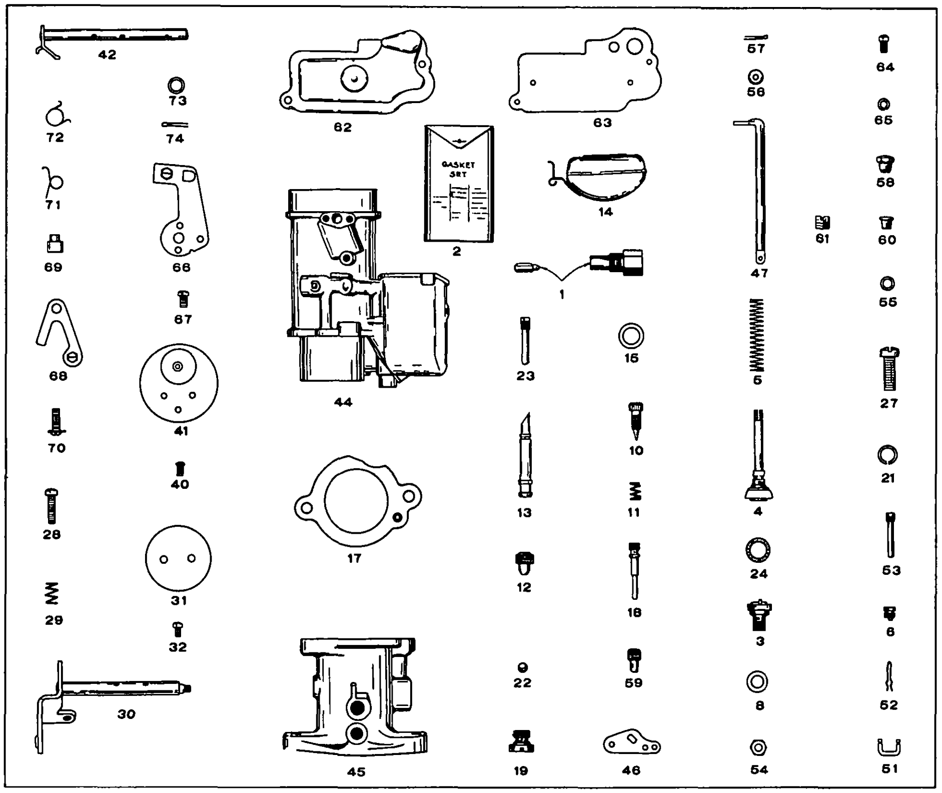
SPARK PLUGS—.026" to .030".
Clean and adjust at regular intervals.

DISTRIBUTOR—.018" to .020".
Breaker gap set .018" to .020".
Replace if necessary.

VALVES—Intake: .010".
Exhaust: .013". Engine hot.

IGNITION TIMING—Breaker contacts to open 7° before top dead center (No. 1 cylinder) when mark on flywheel is in line with center of hole.

SERVICE RECOMMENDATION — Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No.	Part No.	Part Name
	1	**P-22518**	Float Needle Valve and Seat—113 **(NOT VAR.)**
	2	**J-4364-G**	Complete Gasket Set
	3	**P-18149**	Power By-Pass Jet No 56 **(NOT VAR.)**
	4	**P-19527**	Pump Piston and Stem **(Includes P-16960)**
	5	**P-18215**	Spring—Pump Duration
	6	**P-18144**	Check Valve—Pump Inlet
	8	**P-6855**	Gasket—By-Pass Jet
	10	**P 17402**	Idle Needle Valve
	11	**P-15481**	Spring—Idle Needle Valve
	12	**P-17004**	Metering Jet—**.066"** **(VAR.)**
	13	**P-17167**	Main Disch Jet No 28 **(NOT VAR.)**
	14	**P-17486**	Float with Lever
	15	**P 10666**	Gasket—Main Disch Jet Plug and Float Needle Valve Seat
	17	**P-17557**	Gasket—Main Body
	18	**P-17007**	Idle Tube No 70 **(NOT VAR.)**
	19	**P-18130**	Plug—Main Disch Jet
	21	**P-6592**	Lockwasher—Main Body Attach Screw
	22	**P-18772**	Lead Ball—$\frac{1}{16}$
	23	**P-18125**	Screw-Fulcrum—Float Lever
	24	**P-16960**	Spring—Pump Piston Leather Expansion
	27	**P 17000**	Screw—Main Body Attach
	28	**P-15456**	Screw—Throttle Stop
	29	**P 15831**	Spring—Throttle Stop Screw
	30	**P-18705**	Throttle Lever and Stem
	31	**P-5436**	Throttle Valve—**(20°)** **(VAR.)**
	32	**P-16716**	Screw—Throttle Valve Attach
	40	**P-4522**	Screw—Choke Valve Attach
	41	**P-18765**	Choke Valve
	42	**P-18314**	Choke Stem and Lever
	44	**P-17893-R**	Main Body **1 5/16"** Venturi **No. 70** H S Bleeder **(VAR.)**
	45	**P-18598**	Throttle Body—**No. 56-58** Idle Disch Holes **(VAR.)**
		P-18591	Throttle Stop Pin
	46	**P-18331**	Pump Lever
	47	**P-19165**	Pump Rod
	51	**P-18141**	Pump Link
	52	**P-18114**	Cotter Pin—Pump Link
	53	**P-18126**	Nozzle—Pump Disch **No. 69** **(VAR.)**
	54	**P-2290**	Nut—Pump Lever Attach
	55	**P-1791**	Lockwasher—Pump Lever Attach Nut
	56	**P-18135**	Nut—Pump Rod
	57	**P-4**	Cotter Pin—Pump Rod Nut
	58	**P-21053**	Plug—Pump Disch Channel
	59	**P-15477**	Idle Air-Bleeder **No. 52** **(VAR.)**
	60	**P-15459**	Plug—Idle Channel
	61	**P-6387**	Plug—Idle Disch Holes No 10-32
	62	**P-18124 F**	Float Cover
	63	**P-17778**	Gasket—Float Cover
	64	**P-2866**	Screw-Float Cover Attach
	65	**P-12167**	Lockwasher—Float Cover Attach Screw
	66	**P-17067**	Assy—Choke Tube Holder
		P-17051	Tube Holder
		P-11561	Tube Holder Clamp
		P-12868	Tube Holder Clamp Screw
		P 8806	Tube Holder Clamp Screw Nut
	67	**P 17093**	Screw—Choke Tube Holder Attach
	68	**P-17053**	Choke Lever
		P-12867	Wire Conn Screw
	69	**P-17058**	Bushing—Choke Lever
	70	**P-17059**	Screw—Choke Lever Fulcrum
	71	**P-17068**	Spring—Choke Valve Return
	72	**P-17132**	Spring—Choke Lever Return
	73	**P-17449**	Washer—Choke Stem
	74	**P-6666**	Cotter Pin—Choke Stem

NOTE—For parts marked (VAR.) size must be specified when ordering.

BENDIX PRODUCTS DIVISION
SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

Printed in U. S. A.

STROMBERG "EX-32" CARBURETOR

STROMBERG NO. A-17593 (CODE NO. 19-2) HUPMOBILE SYMBOL 90148

SIZE 1½" D. D. S. A. E. 2-15/16" FLANGE CENTERS.

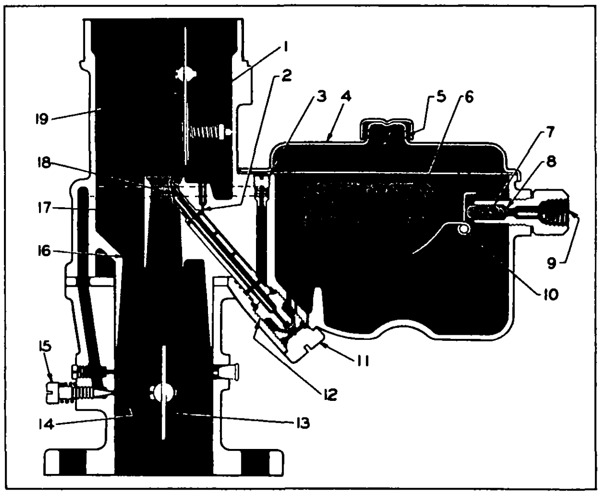
1934
HUPMOBILE

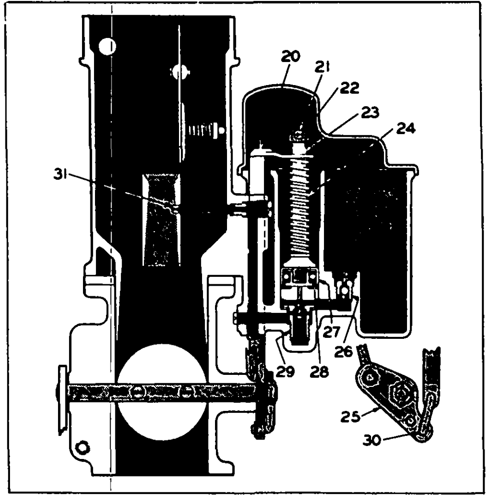
MODEL "W"

3½"x3⅞"—6 cyl.

PARTS ILLUSTRATED

1 Poppet Valve
2 High Speed Bleed
3 Idle Tube
4 Float Chamber Cover
5. Float Chamber Vent
6. Float
7. Float Needle Valve
8. Float Needle Valve Seat
9 Gasoline Inlet
10. Float Fulcrum Pin
11. Main Discharge Jet Plug
12. Main Metering Jet
13. Throttle Valve
14. Idle Discharge Holes
15. Idle Needle Valve
16. Primary Venturi
17 Auxiliary Venturi
18. Main Discharge Jet
19. Choke Valve
20. Pump Rod
21. Power Adjustment Nut
22. Cotter Pin
23 Piston Connecting Rod
24 Connecting Rod Spring
25 Pump Lever
26 Check Valve
27 Pump Piston
28 Pump Piston Spring
29 Power By-Pass Jet
30 Pump Lever Link
31 Pump Discharge Nozzle





Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **5/8"** below top surface of float chamber (without gasket) at 3 lbs. pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level.)

MAIN METERING SYSTEM—Venturi **1-3/16";** Main Discharge Jet **No. 28** P-20886 **(Tool T-24925);** High Speed Bleeder **No. 70** (in body); Main Metering Jet **.059"** P-17004 **(Tool T-23844).** Use **Tool T-19099** to remove main jet plug; Main Metering System controls the flow of fuel up to approximately 65 to 70 M. P. H.

POWER SYSTEM—Combination Power and Pump By-Pass Jet **4 No. 56** P-18149. Pump piston to rest on seat of by-pass jet (less over-travel) with throttle valve opened **27/64"** (measure with shank end of **27/64"** drill) adjust pump stem nut to obtain correct setting. The Power Jet is brought into action at approximately 65 to 70 M. P. H.

ACCELERATION — Pump Discharge Nozzle **No. 70** P-18126; Pump capacity **19** to **21** c.c. per 10 strokes (maximum setting). Use **Tool T-24972.** Pump action takes place during acceleration period only.

IDLE SYSTEM—Idle Discharge Holes **No. 56-58;** with throttle valve fully closed and **No. 58** drill in idle hole, edge of valve is located **.012" + — .004"** from **No. 58** drill; Idle Air Bleed **No. 54** P-15477; Idle Tube **No. 70** P-17007. **Adjustment:** Adjust to smooth running: OUT to make richer and IN to make leaner. Throttle at 7 to 8 M. P. H.

FLANGE GASKET—P-4753.

SPECIAL TOOLS REQUIRED — T-24733 Float Adjuster; T-24925 Main Discharge Jet Remover; T-23844 Main Metering Jet Wrench; T-24970 By-Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burrette Gauge; T-24968 Handle; T-19099 Main Jet Plug Screw Driver.

MOTOR TUNE-UP DATA

SPARK PLUGS—.026" to .030".
Clean and adjust at regular intervals.

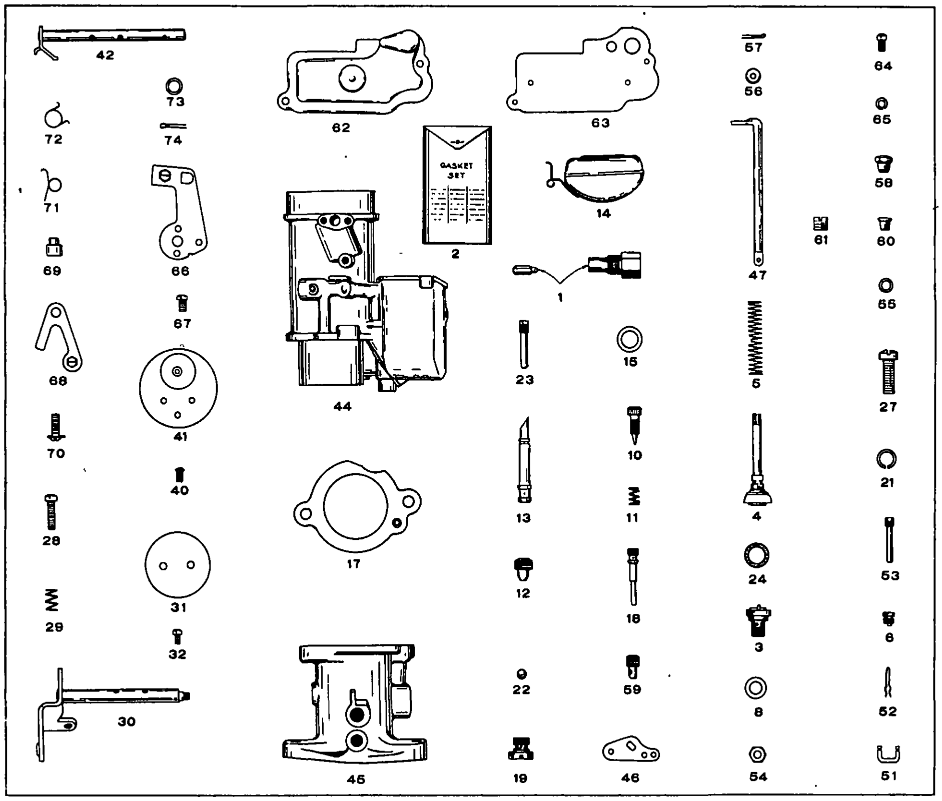
DISTRIBUTOR—.018" to .020".
Breaker gap set .018" to .020".
Replace if necessary.

VALVES—Intake: .010".
Exhaust: .013". **Engine hot.**

IGNITION TIMING—Breaker contacts to open 7° before top dead center (No. 1 cylinder) when mark on flywheel is in line with center of hole.

SERVICE RECOMMENDATION — Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No.	Part No.	Part Name
	1	**P-18916**	Float Needle Valve & Seat—.093" **(NOT VAR.)**
	2	**J-4364-G**	Complete Gasket Set
	3	**P-18149**	Power By-Pass Jet No. 56 **(NOT VAR.)**
	4	**P-19167**	Pump Piston and Stem **(Includes P-16960)**
	5	**P-18215**	Spring—Pump Duration
	6	**P-18144**	Check Valve—Pump Inlet
	8	**P-6855**	Gasket—By Pass Jet
	10	**P-17402**	Idle Needle Valve
	11	**P-15481**	Spring—Idle Needle Valve
	12	**P-17004**	Metering Jet—**.059"** **(VAR.)**
	13	**P-20886**	Main Disch. Jet No. 28 **(NOT VAR.)**
	14	**P-17486**	Float with Lever
	15	**P-10666**	Gasket—Float Needle Valve Seat and M. Disch. Jet Plug
	17	**P-17557**	Gasket—Main Body
	18	**P-17007**	Idle Tube No. 70 **(NOT VAR.)**
	19	**P-18130**	Plug—Main Disch. Jet
	21	**P-6592**	Lockwasher—Main Body Attach. Screw
	22	**P-18772**	Lead Ball $\frac{3}{16}$"
	23	**P-18125**	Screw—Fulcrum-Float Lever
	24	**P-16960**	Spring—Pump Piston Leather Expansion
	27	**P-17000**	Screw—Main Body Attach.
	28	**P-15456**	Screw—Throttle Stop
	29	**P-15831**	Spring—Throttle Stop Screw
	30	**P-19386**	Throttle Lever and Stem
	31	**P-5436**	Throttle Valve **(20°)** **(VAR.)**
	32	**P-16716**	Screw—Throttle Valve Attach.
	40	**P-4522**	Screw—Choke Valve Attach.
	41	**P-18277**	Choke Valve
	42	**P-18314**	Choke Stem and Lever
	44	**P-17893-R**	Main Body **1-3/16"** Venturi **N . 70** H. S. Bleeder **(VAR.)**

NOTE—For parts marked (VAR.) size must be specified when ordering.

Bin Location	Key No.	Part No.	Part Name
	45	**P-19865**	Throttle Body **No. 56-58** Idle Disch. Holes **(VAR.)**
		P-18591	Throttle Stop Pin
	46	**P-18145**	Pump Lever
	47	**P-19165**	Pump Rod
	51	**P-18141**	Pump Link
	52	**P-18114**	Cotter Pin—Pump Link
	53	**P-18126**	Nozzle—Pump Disch. **No. 70** **(VAR.)**
	54	**P-2290**	Nut—Pump Lever Attach.
	55	**P-1791**	Lockwasher—Pump Lever Attach. Nut
	66	**P-18135**	Nut—Pump Rod
	57	**P-7170**	Cotter Pin—Pump Rod Nut
	58	**P-21053**	Plug—Pump Disch. Channel
	59	**P-15477**	Idle Air Bleeder **No. 54** **(VAR.)**
	60	**P-15459**	Plug—Idle Channel
	61	**P-6387**	Plug—Idle Disch. Holes No. 10-32
	62	**P-18124-F**	Float Cover
	63	**P-17778**	Gasket—Float Cover
	64	**P-2866**	Screw—Float Cover Attach.
	65	**P-12167**	Lockwasher—Float Cover Attach. Screw
	66	**P-17067**	Assy—Choke Tube Holder
		P-17051	Tube Holder
		P-11561	Tube Holder Clamp
		P-12868	Tube Holder Clamp Screw
		P-8806	Tube Holder Clamp Screw Nut
	67	**P-17093**	Screw—Choke Tube Holder Attach.
	68	**P-17053**	Choke Lever with Wire Connector and Screw
		P-12867	Wire Connector Screw
	69	**P-17058**	Bushing—Choke Lever
	70	**P-17059**	Screw—Choke Lever Fulcrum
	71	**P-17068**	Spring—Choke Valve Return
	72	**P-17132**	Spring—Choke Lever Return
	73	**P-17449**	Washer—Choke Stem
	74	**P-6666**	Cotter Pin—Choke Stem

BENDIX PRODUCTS DIVISION
SOUTH BEND **OF BENDIX AVIATION CORPORATION** **INDIANA**

Printed in U. S. A.

STROMBERG "EE-22" CARBURETOR

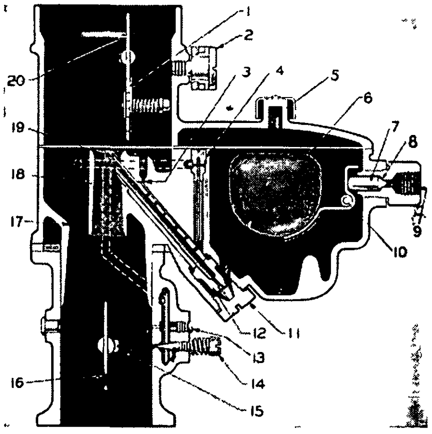
STROMBERG NO. A-17832 (CODE NO. 19-3) HUPMOBILE SYMBOL 89021

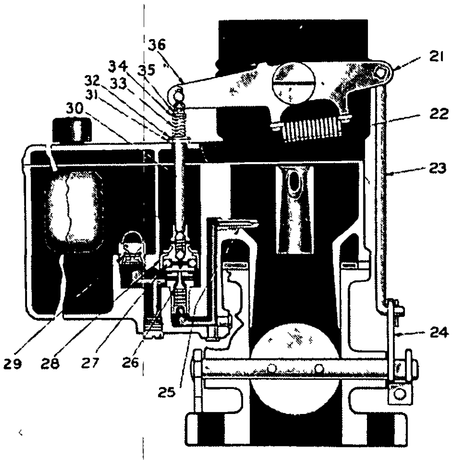
SIZE: 1¼" DUAL D. D. 4-HOLE FLANGE

1934
HUPMOBILE
MODEL
"T"
3-3/16"x4-3/4"—6 cyl.

PARTS ILLUSTRATED

1. Poppet Valve
2. Fulcrum Screw
3. High Speed Bleed
4. Idle Tube
5. Float Chamber Vent
6. Float
7. Float Needle Valve
8. Float Needle Valve Seat
9. Gasoline Inlet
10. Float Fulcrum Pin
11. Main Discharge Jet Plug
12. Main Metering Jet
13. Idle Discharge Plug
14. Idle Needle Valve
15. Idle Discharge Holes
16. Throttle Valve
17. Primary Venturi
18. Auxiliary Venturi
19. Main Discharge Jet
20. Choke Valve
21. Pump Lever Arm
22. Pump Arm Connecting Spring
23. Pump Rod
24. Pump Lever
25. Pump Discharge Nozzle
26. Power By-Pass Jet
27. Pump Piston Spring
28. Pump Piston
29. Check Valve
30. Pump Piston Link
31. Felt Washer
32. Splash Washer
33. Spring
34. Retainer Washer
35. Cotter Pin
36. Pump Piston Arm





Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **5/8"** below top surface of float chamber (without gasket) at 3 lbs. pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level.)

MAIN METERING SYSTEM—Venturi **1-3/32"**; Main Discharge Jet **No. 28-36** P-18413 **(Tool T-24925)**; High Speed Bleeder **No. 65** (in body); Main Metering Jet **.053"** P-17004 **(Tool T-23844)**. Use **Tool T-19099** to remove Main Jet Plug; Main Metering System controls the flow of fuel up to approximately 65 to 70 M. P. H.

POWER SYSTEM—Combination Power and Pump By-Pass Jet **4 No. 56** P-18149. Pump piston to rest on seat of by-pass jet (less over-travel) with throttle valve opened **1/4" + — 1/64"** (measure with shank end of **1/4"** drill) adjust by bending pump rod. The Power Jet is brought into action at approximately 65 to 70 M. P. H.

ACCELERATION — Pump Discharge Nozzle **No. 74** P-18852; Pump capacity **17** to **21** c.c. per 10 fast strokes and **20** to **24** c.c. per 10 slow strokes. (Maximum setting). Use **Tool T-24972.** Pump action takes place during acceleration period only.

IDLE SYSTEM—Idle Discharge Holes **Nos. 56-60**; with throttle valve fully closed and **No. 60** drill in idle hole, edge of valve is located **.030" + — .004"** from **No. 60** drill; Idle Air Bleed **No. 42** P-15477; Idle Tube **No. 70** P-17007. **Adjustment:** Adjust to smooth running, one barrel at a time, OUT to make richer and IN to make leaner. Throttle at 7 to 8 M. P. H.

FLANGE GASKET—P-18165.

SPECIAL TOOLS REQUIRED—T-24733 Float Adjuster; T-24925 Main Discharge Jet Remover; T-23844 Main Metering Jet Wrench; T-24970 By-Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burrette Gauge; T-24968 Handle; T-19099 Main Jet Plug Screw Driver.

MOTOR TUNE-UP DATA

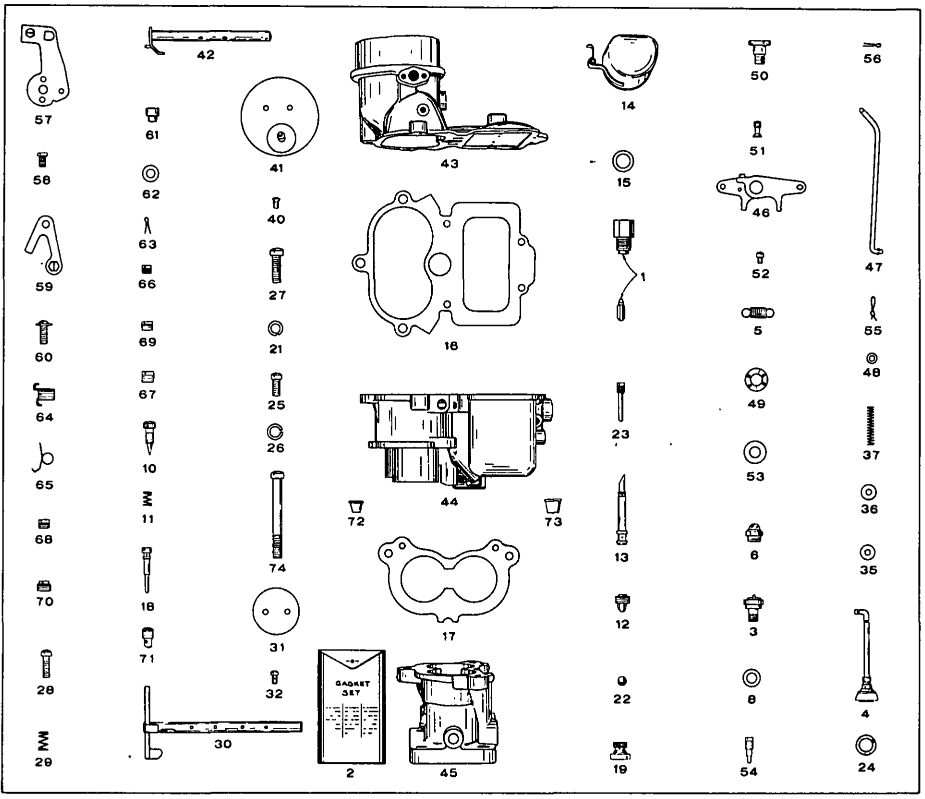
SPARK PLUGS—.028".
Clean and adjust at regular intervals.

DISTRIBUTOR—.015" to .017".
Breaker gap set .015" to .017".
Replace if necessary.

VALVES—Intake: .018".
Exhaust: .018". Engine hot.

IGNITION TIMING—Breaker contacts to open at flywheel mark, which is 7° (25/32" on flywheel) before top dead center.

SERVICE RECOMMENDATION — Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No.	Part No.	Part Name
	1	**P-19867**	Float Needle Valve and Seat—.113" **(NOT VAR.)**
	2	**J-4363-G**	Complete Gasket Set
	3	**P-18149**	Power By-Pass Jet 4—No. 56 **(NOT. VAR.)**
	4	**P-17073**	Pump Piston and Link **(Includes P-16960)**
	5	**P-17042**	Spring—Pump Duration
	6	**P-16990**	Pump Inlet Check Valve
	8	**P-6855**	Gasket—By Pass Jet
	10	**P-17402**	Idle Needle Valve
	11	**P-15481**	Spring—Idle Needle Valve
	12	**P-17004**	Metering Jet—**.053"** **(VAR.)**
	13	**P-18413**	Main Disch. Jet No. 28-36 **(NOT VAR.)**
	14	**P-17926**	Float with Lever
	15	**P-10666**	Gasket—Float Needle Valve Seat
	16	**P-17923**	Gasket—Air Horn
	17	**P-16941**	Gasket—Main Body
	18	**P-17007**	Idle Tube No. 70 **(NOT VAR.)**
	19	**P-18130**	Plug—Main Disch. Jet
	21	**P-3157**	Lockwasher—Main Body Attach. Screw
	22	**P-18772**	Lead Ball $\frac{3}{16}$"
	23	**P-17939**	Screw-Fulcrum—Float Lever
	24	**P-16960**	Spring—Pump Piston Leather Expansion
	25	**P-46**	Screw—Air Horn Attach.
	26	**P-6668**	Lockwasher—Air Horn Attach. Screw
	27	**P-15554**	Screw—Main Body Attach.
	28	**P-15456**	Screw—Throttle Stop
	29	**P-15831**	Spring—Throttle Stop Screw
	30	**P-19998**	Throttle Lever and Stem
	31	**P-17018**	Valve—Throttle (5°) **(NOT VAR.)**
	32	**P-16716**	Screw—Throttle Valve Attach.
	35	**P-17380**	Washer—Felt
	36	**P-17060**	Washer—Splash-Pump Link
	37	**P-17753**	Spring—Packing Retainer
	40	**P-4522**	Screw—Choke Valve Attach.
	41	**P-17070**	Choke Valve
	42	**P-17224**	Choke Stem and Lever
	43	**P-20275**	Air Horn
	43A	**P-18478**	Assy.—Air Horn and Valve
	44	**P-18882**	Main Body **1-3/32** Venturi **No. 65** H. S. Bleeder **(VAR.)**
	45	**P-17002**	Throttle Body **No. 56-60** Idle Disch. Holes **(VAR.)**
	46	**P-16976**	Pump Lever
	47	**P-17045**	Pump Rod
	48	**P-9394**	Washer—Pump Rod
	49	**P-17133**	Washer—Pump Lever Fulcrum Screw Spring
	50	**P-16973**	Screw—Pump Lever Fulcrum
	51	**P-17027**	Screw—Pump Lever Fulcrum Screw Lock
	52	**P-6970**	Screw—Pump Lever Stop
	53	**P-17009**	Washer—Pump Lever Fulcrum Screw
	54	**P-18852**	Pump Disch. Nozzle **No. 74** **(VAR.)**
	55	**P-15390**	Cotter Pin—Pump Link
	56	**P-7170**	Cotter Pin—Pump Rod
	57	**P-17067**	Assy—Choke Tube Holder
		P-17051	Tube Holder
		P-11561	Tube Holder Clamp
		P-12868	Tube Holder Clamp Screw
		P-8806	Tube Holder Clamp Screw Nut
	58	**P-17093**	Screw—Choke Tube Holder Attach.
	59	**P-17053**	Choke Lever with Wire Conn. and Screw
		P-12867	Wire Connector Screw
	60	**P-17059**	Screw—Choke Lever Fulcrum
	61	**P-17058**	Bushing—Choke Lever
	62	**P-16426-F**	Washer—Choke Stem
	63	**P-4**	Cotter Pin—Choke Stem
	64	**P-17132**	Spring—Choke Lever Return
	65	**P-17068**	Spring—Choke Valve Return
	66	**P-7098**	Plug—Pump Channel No. 8-32
	67	**P-6406**	Plug—Pump Disch. Channel No.5/16-24
	68	**P-6202**	Plug—Pump Disch. Channel No. 1/4-32
	69	**P-6387**	Plug—Idle Disch. Holes No. 10-32
	70	**P-3292**	Plug—Decarbonizing Boss-Throt. Body (⅛" Pipe)
	71	**P-15477**	Idle Air Bleeder **No. 42** **(VAR.)**
	72	**P-15457**	Plug—Idle Air Bleed Channel No. 6
	73	**P-15459**	Plug—Idle Channel 1/4"
	74	**P-18111**	Screw—Air Horn Attach.

NOTE—For parts marked (VAR.) size must be specified when ordering.

BENDIX PRODUCTS DIVISION
SOUTH BEND **OF BENDIX AVIATION CORPORATION** **INDIANA**

STROMBERG SFM-3 CARBURETOR

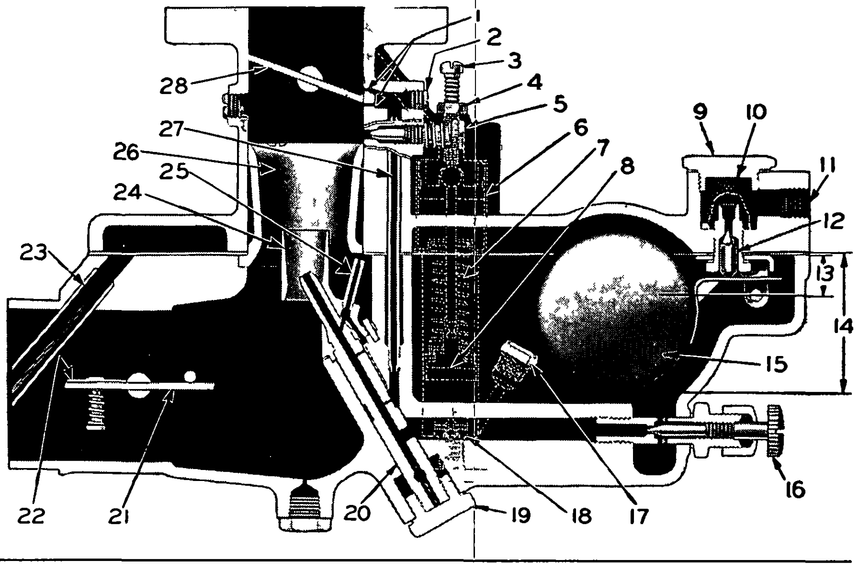
International
Model
"CW" Bus

FOR STROMBERG NUMBER, CODE NUMBER, MANUFACTURER'S SYMBOL NUMBER, ENGINE MODELS AND BORE AND STROKE SPECIFICATIONS SEE PARTS PAGE

SIZE 1-1/2 UPDRAFT S A E 2-15/16 FLANGE CENTERS TAPPED 3/8-16

PARTS ILLUSTRATED

1 Idle Discharge Holes
2 Idle Discharge Plug
3 Pump Adjustment Screw
4 Pump Adjustment Lock Screw
5. Idle Needle Valve
6 Vacuum Piston
7 Accelerating Pump Spring
8 Accelerating Pump Piston
9 Strainer Plug
10 Strainer
11 Gasoline Inlet
12 Float Needle Valve and Seat
13 Fuel Level (see instructions)
14 Float Setting (see instructions)
15 Float
16 Adjustable Metering Jet
17 Check Valve
18 Combination Power and Pump By Pass Jet
19 Main Discharge Jet Nut
20 Main Discharge Jet
21 Choke Valve
22 Choke Poppet Valve
23 Vent Tube
24 Small Venturi
25 High Speed Bleed
26 Large Venturi
27 Idle Tube
28 Throttle Valve



Main Metering System—
The main metering system controls the flow of the fuel during the intermediate speed of the engine Fuel enters the carburetor through the gasoline inlet (11) into the float chamber From here the gasoline passes through the metering jet (16) which controls the supply of fuel for the main metering system, to the main discharge jet (20) The main discharge jet delivers the fuel to the small venturi (24) (auxiliary venturi) where it is mixed with air and flows into the carburetor barrel The amount of air used in the mixture is controlled by the large venturi (26) (When replacing main discharge jet use new P 21372 gasket)

Power System—
For maximum power or higher speeds a richer mixture is needed This is accomplished by the power system During the intermediate speed of the engine sufficient fuel is furnished by the main metering jet However for hard pulls and wide open throttle this supply is not equivalent to the engine demands, therefore another valve comes into operation to supply this extra amount of gasoline needed While the engine runs at a moderate speed a certain amount of manifold vacuum is created This vacuum holds vacuum piston (6) in an up position but when the throttle is opened above normal to compensate for the extra power that may be needed from the engine the vacuum falls off accordingly and the vacuum piston drops until the pump piston (8), which is directly connected to the vacuum piston, comes in contact with and opens the valve in the by pass jet (18) The opening of this valve allows an additional amount of gasoline to enter the main discharge jet and enrichens the mixture This is known as the Power System

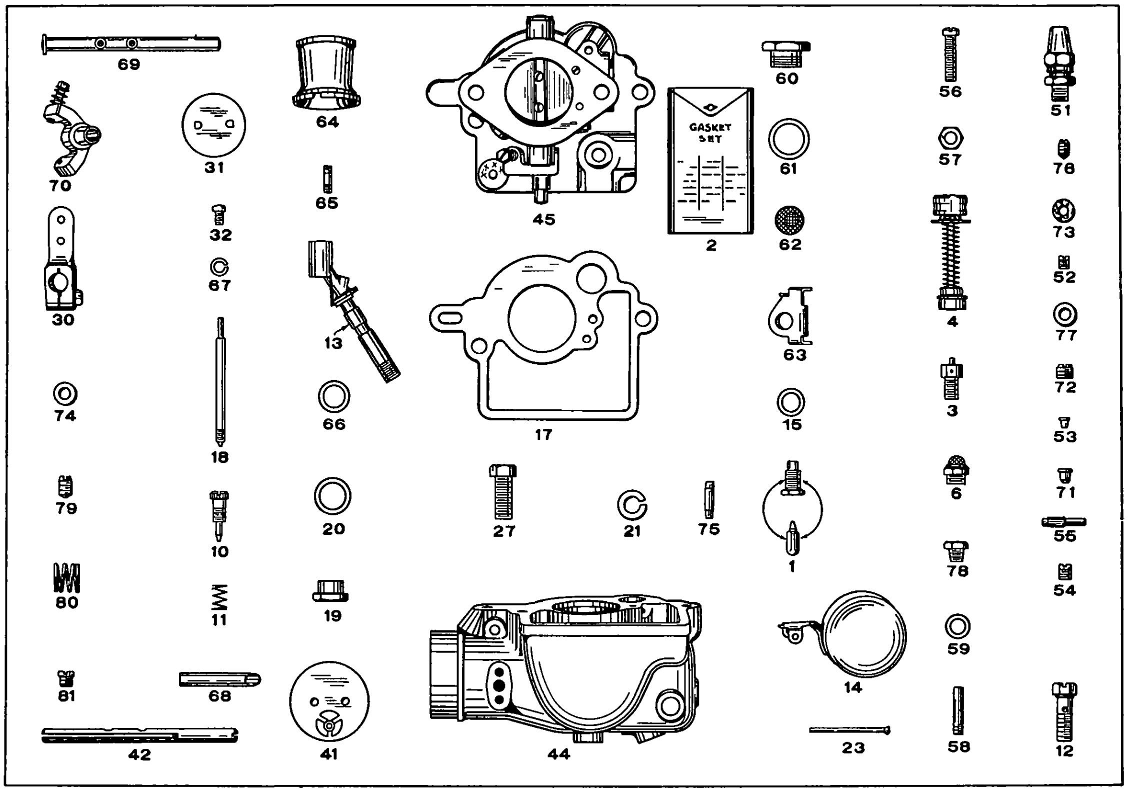
Accelerating System—
As explained above, the vacuum piston of the pump is held in an up position by the manifold vacuum created by the engine On sudden opening of the throttle the vacuum drops off very rapidly and the vacuum piston (6) is released When this occurs accelerating pump spring (7) forces pump piston (8) down which in turn forces a discharge of gasoline to be driven through the by pass jet (18) and out the main discharge jet This sudden surplus of fuel enrichens the mixture for the moment and furnishes the engine the extra power needed for fast acceleration The amount of discharge can be controlled by the adjustment screw (3) Turn screw IN to lessen, OUT to make greater

Idle System
When the throttle valve is closed gasoline is delivered to the engine by means of the idle system of the carburetor Gasoline is taken up through the idle tube (27) which meters the quantity of fuel for the idle system It is mixed with air, the amount of which is governed by the idle needle valve (5) and reaches the engine by means of the idle holes (1) and up through the barrel of the carburetor To make the mixture richer turn idle needle valve (5) **IN**, to make mixture leaner screw **OUT.**

Fuel Level
The gasoline level in the float chamber is properly set at the factory and should not be adjusted unless carburetor has been handled roughly or level has been changed for some other cause For measuring fuel level it is advisable to use an open vessel with a leveled top, large enough to support the throttle valve body and to accommodate the float assembly Place main body gasket between body and vessel before checking Connect gas line to inlet in throttle body and allow gas to feed into measuring vessel at the fuel pump pressure until flow is stopped by the closing of the float needle valve Fuel level should measure (see parts page) below top surface of vessel (without gasket) Use standard depth gauge for measuring fuel level To correct fuel level hold throttle body in inverted position and set float to measure (see parts page) from top of float (14) to gasket surface of throttle body, which will give approximate fuel level

MOTOR TUNE-UP DATA

Diversification of Equipment makes standard tune-up specifications impossible.



SERVICE REPLACEMENT PARTS LIST

Key No	Part Name	
1	Float Needle Valve and Seat	(NOT VAR)
2	Complete Gasket Set	
3	Pump By Pass Jet	(VAR)
4	Pump Piston	
6	Pump Inlet Check Valve	
10	Idle Needle Valve	
11	Spring—Idle Needle Valve	
12	Metering Jet	(VAR)
13	Main Discharge Jet	(VAR)
14	Float	
15	Gasket—Float Needle Valve Seat	
17	Gasket—Main Body	
18	Idle Tube	
19	Nut—Main Discharge Jet	
20	Gasket—Main Discharge Jet Nut	
21	Lockwasher—Main Body Attach Screw	
23	Fulcrum Pin—Float	
27	Screw—Main Body Attach	
30	Throttle Lever Screw—Throttle Lever Clamp	
31	Throttle Valve	
32	Screw—Throttle and Choke Valve Attach	
41	Choke Valve	
42	Choke Stem	
44	Main Body	
45	Throttle Body (Complete with Idle holes Spark hole Throttle Valve and Stem)	(VAR)
51	Union	
52	Plug—Vacuum Suction Channel	
53	Plug—Pump Channel	
54	Plug—Idle Discharge Channel	
55	Pin—Choke Valve Stop	
56	Screw—Vacuum Pump Adj	
57	Nut—Vacuum Pump Adj Screw	
58	High Speed Bleeder	(VAR.)
59	Gasket—Metering Jet	
60	Plug—Strainer	
61	Gasket—Strainer Plug	
62	Strainer	
63	Float Hanger	
64	Venturi	(VAR)
65	Pin—Main Discharge Jet Locating	
66	Gasket—Main Discharge Jet	
67	Lockwasher—Throttle and Choke Valve Attach Screw	
68	Vent Tube	
69	Throttle Stem	
70	Throttle Stop	
	Screw—Idle Adj	
	Spring—Idle Screw	
71	Plug—Idle Channel	
72	Plug—Vacuum Governor Conn	
73	Washer—Idle Tube Cork	
74	Washer—Idle Tube	
75	Pin—Choke Stem Separator	
76	Set Screw—Choke Stem Collar	
77	Collar—Choke Stem	
78	Plug—Drain Boss	
79	Set Screw—Vent Tube	
80	Spring—Strainer	
81	Reducer—Drain By Pass	(VAR

BENDIX PRODUCTS DIVISION
SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

Key No.	A-17923 International Model "CW" Bus Code No. 24-98C Symbol No. 2-CU-21B 3-7/8 x 5—6 cyl.	A-17933 International Model "CW" Bus Code No. 24-99C Symbol No. 2-BG-221B 3-5/8 x 5—6 cyl.	A-18013 International Model "CW" Bus Code No. 24-123A Symbol No. 234-GB-39 3-7/8 x 5—6 cyl.
1	P-17282	P-17282	P-17282
2	J-4417-G	J-4417-G	J-4417-G
3	P-16786—.028″	P-16786—.028″	P-16786—.028″
4	P-23129	P-23129	P-23129
6	P-23135	P-23135	P-23135
10	P-15396	P-15396	P-15396
11	P-12530	P-12530	P-12530
12	P-15384—.065″	P-15384—.062″	P 15384—.065″
13	P-16863—**No. 28**	P-16863—**No. 28**	P-16863—**No. 28**
14	P-22470	P-22470	P-22470
15	P-11572	P-11572	P-11572
17	P-18891	P-18891	P-18891
18	P-22711	P-22711	P-22711
19	P-16762	P-16762	P-16762
20	P-5636	P-5636	P-5636
21	P-5364	P-5364	P-5364
23	P-16760	P-16760	P-16760
27	P-16849	P-16849	P-16849
30	P-13498 P-15817	P-13498 P-15817	P-13498 P-15817
31	P-12251	P-12251	P-12251
32	P-15259	P-15259	P-15259
41	P-21758	P-21758	P-19898
42	P-21756	P-21756	P-21756
44	P-22671	P-22671	P-22671
45	382311—**Nos. 58-66**	382311—**Nos. 58-66**	382310—**Nos. 58-66** **No. 56 Spark**
51	P-15278	P-15278	P-15278
52	P-7098	P-7098	P-7098
53	P-15458	P-15458	P-15458
54	P-12780	P-12780	P-12780
55	P-16764	P-16764	P-16764
56	P-19911	P-19911	P-19911
57	P-14618	P-14618	P-14618
58	P-14434—**No. 65**	P-14434—**No. 65**	P-14434—**No. 65**
59	P-6855	P-6855	P-6855
60	P-19995	P-19995	P-19995
61	P-20235	P-20235	P-20235
62	P-12958	P-12958	P-12958
63	P-16761	P-16761	P-16761
64	P-16845—**1-5/16″**	P-16845—**1-5/16″**	P-16845—**1-5/16″**
65	P-16850	P-16850	P-16850
66	P-21372	P 21372	P-21372
67	P-1693	P-1693	P-1693
68	P-16848	P-16848	P-16848
69	P-16866	P-16866	P-16866
70	P-18449 P-18552 P-15831	P-18449 P-18552 P-15831	P-18449 P-18552 P-15831
71	P-15459	P-15459	P-20454
72	P-3292	P 3292	P-3292
73	P-14160	P 14160	P-14160
74	P-22713	P-22713	P-22713
75	P-3881	P-3881	P-3881
76	P-16161	P-16161	P-16161
77	P-19901	P-19901	P 19901
78	P-26	P-26	P-26
79	P-14745	P-14745	P-14745
80	P-23143	P-23143	P-23143
81	P-16179—**No. 58**	P 16179—**No. 58**	P-16179—**No. 58**
	SETTINGS Throttle Valve Location—Lower lip of throttle valve to be **Flush** + — .004″ from No. 58 idle hole. Fuel level 31/32″ at 2 lbs. pressure. Pump Travel—Full travel of pump.	SETTINGS Throttle Valve Location—Lower lip of throttle valve to be **Flush** + — .004″ from No. 58 idle hole. Fuel level 31/32″ at 2 lbs. pressure. Pump Travel—Full travel of pump.	SETTINGS Throttle Valve Location—Lower lip of throttle valve to be **Flush** + — .004″ from No. 58 idle hole. Fuel level 31/32″ at 2 lbs. pressure. Pump Travel—Full travel of pump. Spark Hole—Lower lip of throttle valve to come .025″ above No. 56 spark hole.

STROMBERG SFM-45 CARBURETOR

STROMBERG NO A-17774 (CODE NO 24-130C) INTERNATIONAL SYMBOL NO 234GB32
STROMBERG NO A-17884 (CODE NO 24-137A) INTERNATIONAL SYMBOL NO 234GB17

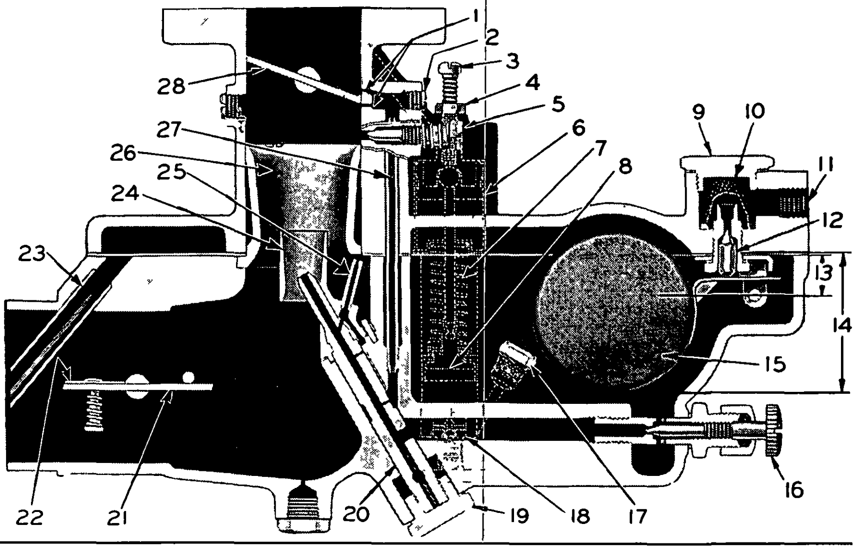
SIZE 1-3/4" UPDRAFT S A E 3-5/16' FLANGE CENTER

International

1938 "Bus"
4-3/8" x 5-3/4"—6 cyl.
1939 "EP" Bus
4-3/4" x 5-3/4"—6 cyl.

PARTS ILLUSTRATED

1	Idle Discharge Holes
2	Idle Discharge Plug
3	Pump Adjustment Screw
4	Pump Adjustment Lock Screw
5	Idle Needle Valve
6	Vacuum Piston
7	Accelerating Pump Spring
8	Accelerating Pump Piston
9	Strainer Plug
10	Strainer
11	Gasoline Inlet
12	Float Needle Valve and Seat
13	Fuel Level (see instructions)
14	Float Setting (see instructions)
15	Float
16	Adjustable Metering Jet
17	Check Valve
18	Combination Power and Pump By Pass Jet
19	Main Discharge Jet Nut
20	Main Discharge Jet
21	Choke Valve
22	Choke Poppet Valve
23	Vent Tube
24	Small Venturi
25	High Speed Bleed
26	Large Venturi
27	Idle Tube
28	Throttle Valve



Main Metering System—

The main metering system controls the flow of the fuel during the intermediate speed of the engine Fuel enters the carburetor through the gasoline inlet (11) into the float chamber From here the gasoline passes through the metering jet (16) which controls the supply of fuel for the main metering system, to the main discharge jet (20) The main discharge jet delivers the fuel to the small venturi (24) (auxiliary venturi) where it is mixed with air and flows into the carburetor barrel The amount of air used in the mixture is controlled by the large venturi (26)

Power System—

(When replacing main discharge jet use new P 21372 gasket) For maximum power or higher speeds a richer mixture is needed This is accomplished by the power system During the intermediate speed of the engine sufficient fuel is furnished by the main metering jet However for hard pulls and wide open throttle this supply is not equivalent to the engine demands, therefore another valve comes into operation to supply this extra amount of gasoline needed While the engine runs at a moderate speed a certain amount of manifold vacuum is created This vacuum holds vacuum piston (6) in an up position but when the throttle is opened above normal to compensate for the extra power that may be needed from the engine the vacuum falls off accordingly and the vacuum piston drops until the pump piston (8), which is directly connected to the vacuum piston, comes in contact with and opens the valve in the by pass jet (18) The opening of this valve allows an additional amount of gasoline to enter the main discharge jet and enrichens the mixture This is known as the Power System

Accelerating System—

As explained above, the vacuum piston of the pump is held in an up position by the manifold vacuum created by the engine On sudden opening of the throttle the vacuum drops off very rapidly and the vacuum piston (6) is released When this occurs accelerating pump spring (7) forces pump piston (8) down which in turn forces a discharge of gasoline to be driven through the by pass jet (18) and out the main discharge jet This sudden surplus of fuel enrichens the mixture for the moment and furnishes the engine the extra power needed for fast acceleration The amount of discharge can be controlled by the adjustment screw (3) Turn screw IN to lessen, OUT to make greater

Idle System—

When the throttle valve is closed gasoline is delivered to the engine by means of the idle system of the carburetor Gasoline is taken up through the idle tube (27) which meters the quantity of fuel for the idle system It is mixed with air the amount of which is governed by the idle needle valve (5) and reaches the engine by means of the idle holes (1) and up through the barrel of the carburetor To make the mixture richer turn idle needle valve (5) **IN**, to make mixture leaner screw **OUT.**

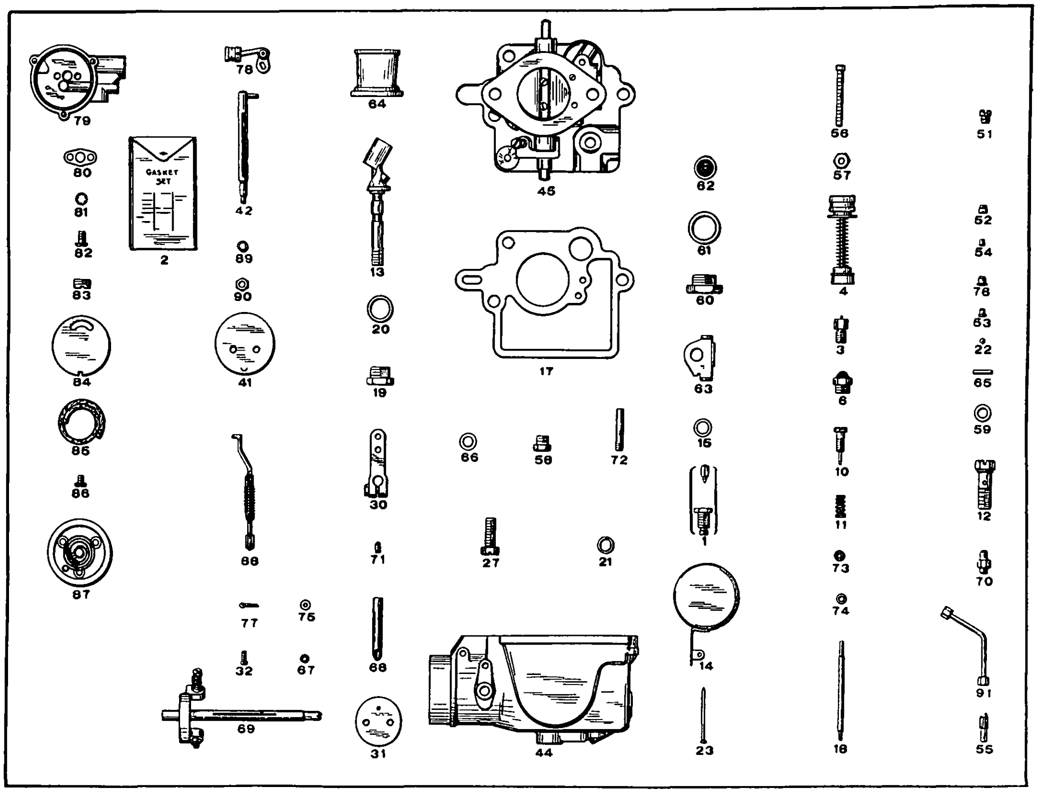
Fuel Level—

The gasoline level in the float chamber is properly set at the factory and should not be adjusted unless carburetor has been handled roughly or level has been changed for some other cause For measuring fuel level it is advisable to use an open vessel with a leveled top large enough to support the throttle valve body and to accommodate the float assembly Place main body gasket between body and vessel before checking Connect gas line to inlet in throttle body and allow gas to feed into measuring vessel at the fuel pump pressure until flow is stopped by the closing of the float needle valve Fuel level should measure (see parts page) below top surface of vessel (without gasket) Use standard depth gauge for measuring fuel level To correct fuel level hold throttle body in inverted position and set float to measure (see parts page) from top of float (14) to gasket surface of throttle body which will give approximate fuel level

MOTOR TUNE-UP DATA

Diversification of Equipment makes standard tune-up specifications impossible.

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Key No	A-17774	A-17884	Part Name
1	P 18811	P 18811	Float Needle Val and Seat 140′ (**NOT VAR**)
2	J 4270 G	J 4270 G	Complete Set of Gaskets
3	P 16786— **044″**	P 16786— **046″**	By Pass Jet (**VAR**)
4	P 23126	P 23126	Pump Piston
6	P 23135	P 23135	Pump Inlet Check Valve
10	P 15396	P 15396	Idle Needle Valve
11	P 12530	P 12530	Spring—Idle Needle Valve
12	P 15384— **070″**	P 15384— **070″**	Metering Jet (**VAR**)
13	P 17250— **No 28**	P 17250— **No 28**	Main Discharge Jet (**VAR**)
14	382066	382066	Float
15	P 14364	P 14364	Gasket—Float Needle Valve and Seat
17	P 17496	P 17496	Gasket—Main Body
18	P 22702	P 22702	Idle Tube
19	P 16762	P 16762	Nut—Main Discharge Jet
20	P 5636	P 5636	Gasket—Main Discharge Jet Nut
21	P 5364	P 5364	Lockwasher—Main Body Attach Screw
23	P 16760	P 16760	Pin—Float Fulcrum
27	P 16849	P 16849	Screw—Main Body Attach
30	P 13498	P 13498	Lever—Throttle
	P 15817	P 15817	Screw—Throttle Lever Clamp
31	P 16064— **21°**	P 16064— **21°**	Throttle Valve
32	P 285	P 285	Screw—Throttle Valve Attach
41	P 23406	P 23406	Choke Valve
42	P 24117	P 24117	Choke Stem
44	P 23865	P 23865	Main Body
45	382312— **Nos. 56-60** **No. 50** **Spark**	382313— **Nos 56-56** **No 50** **Spark**	Throttle Body (complete with throttle stem and valve) (**VAR**)
51	P 16179— **No 58**	P 16179— **No 58**	Reducer—Drain By Pass (**VAR**)
52	P 7098	P 7098	Plug—Vacuum Suction Channel
53	P 15458	P 15458	Plug—Pump Channel
54	P 12780	P 12780	Plug—Idle Discharge Channel
55	P 16764	P 16764	Pin—Choke Valve Stop
56	P 19911	P 19911	Screw—Vacuum Pump Adj
57	P 14618	P 14618	Nut—Vacuum Pump Adj
58	P 8387	P 8387	Plug—Gas Inlet
59	P 6855	P 6855	Gasket—Metering Jet
60	P 17140	P 17140	Plug—Strainer
61	P 20235	P 20235	Gasket—Strainer Plug
62	P 12958	P 12958	Strainer—Gas
63	P 17500	P 17500	Hanger—Float
64	P 17498— **1-7/16″**	P 17498— **1-1/2″**	Venturi (**VAR**)
65	P 16850	P 16850	Pin—Main Discharge Jet Locating
66	P 21372	P 21372	Gasket—Main Discharge Jet
67	P 1693	P 1693	Lockwasher—Thr and Ch Val Attach Screw
68	P 17499	P 17499	Vent Tube
69	P 24119	P 24119	Throttle Stem and Stop
70	P 23370	P 23370	Nipple—Vacuum Tube
71	P 14745	P 14745	Set Screw—Vent Tube
72	P 16320— **No 60**	P 16320— **No 60**	High Speed Bleeder (**VAR**)
73	P 14160	P 14160	Washer—Idle Tube Cork
74	P 22713	P 22713	Washer—Idle Tube
75	P 24179	P 24179	Washer—Elect Unit Attach Screw
76	P 15459	P 15459	Plug—Idle Drilling Hole
77	P 7170	P 7170	Cotter Pin—Kick Rod
78	P 24113	P 24113	Vacuum Piston and Link
79	P 24110	P 24110	Therm Housing
80	P 23410	P 23410	Gasket—Thermostat Housing Boss
81	P 15346	P 15346	Lockwasher—Therm Hous and Attach Scr
82	P 23122	P 23122	Screw—Thermostat Housing Attach
83	P 23158	P 23158	Plug—Vacuum Piston Channel 1/2′ 24
84	P 23051	P 23051	Plate—Baffle
85	P 23052	P 23052	Insulator—Elect Unit
86	P 21596	P 21596	Screw—Elect Unit Attach
87	P 24111	P 24111	Assy —Therm and Elect Unit
88	P 24112	P 24112	Wide Open Kick Rod
89	P 15875	P 15875	Lockwasher—Vac Piston Lever Nut
90	P 16571	P 16571	Nut—Vac Piston Lever
91	P 23405	P 23405	Vacuum Tube
*92	P 26	P 26	Plug—Drain Boss
*93	P 15277	P 18930	Union
*94	P 3292	P 3292	Plug—Governor Conn
*95	P 19901	P 19901	Collar—Throttle Stem
*96	P 16161	P 16161	Set Screw—Throttle Stem Collar
*97	P 15259	P 15259	Screw—Choke Valve Attach

*Parts Not Illustrated

A-17774—Fuel Level 31/32″ **Fuel Pressure** 2 lbs **Throttle Valve Location**—With throttle valve fully closed lower edge of valve to be **Flush** + — 004″ with **No 56 idle hole** **Spark Hole**—Lower edge of throttle valve to be 040″ above No 50 spark hole **Thermostat Setting**—Set **10** notches rich **DeFlooder Adjustment**—With throttle valve held in wide open position choke valve should be open from 25/64″ drill to 11/32″ drill (Flat Stem) and 27/64″ drill to 3/8″ drill (Slotted Stem) Bend pin in choke stem to obtain correct opening

A-17884—Fuel Level 31/32′ **Fuel Pressure** 2 lbs **Throttle Valve Location**—With throttle valve fully closed lower idle hole should be open from a No 71 to a No 77 drill **Spark Hole**—Lower edge of throttle valve to be 040″ above No 50 spark hole **Thermostat Setting**—Set **10** notches rich **DeFlooder Adjustment**—With throttle valve held in wide open position choke valve should be open from 25/64″ drill to 11/32″ drill (Flat Stem) and 27/64′ drill to 3/8″ drill (Slotted Stem) Bend pin in choke stem to obtain correct opening

BENDIX PRODUCTS DIVISION
SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

Printed in U S A

STROMBERG SFM-55 CARBURETOR

STROMBERG NO. A-17735 (CODE NO. 24-129B) INTERNATIONAL SYMBOL NO. 234GB34

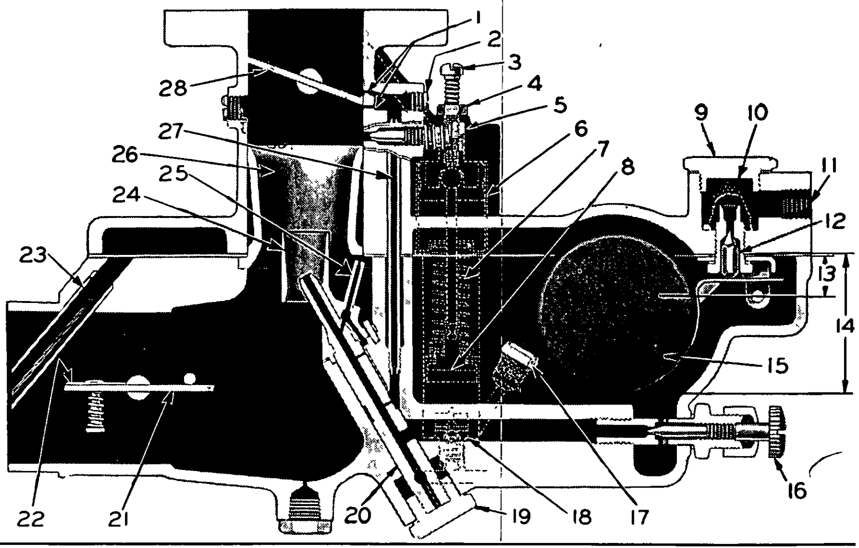
SIZE: 2″ UPDRAFT S.A.E. 3-9/16″ FLANGE CENTERS

International 1938 Bus

4-3/4″ x 5-3/4″—6 cyl.

PARTS ILLUSTRATED

1. Idle Discharge Holes
2. Idle Discharge Plug
3. Pump Adjustment Screw
4. Pump Adjustment Lock Screw
5. Idle Needle Valve
6. Vacuum Piston
7. Accelerating Pump Spring
8. Accelerating Pump Piston
9. Strainer Plug
10. Strainer
11. Gasoline Inlet
12. Float Needle Valve and Seat
13. Fuel Level (see instructions)
14. Float Setting (see instructions)
15. Float
16. Adjustable Metering Jet
17. Check Valve
18. Combination Power and Pump By-Pass Jet
19. Main Discharge Jet Nut
20. Main Discharge Jet
21. Choke Valve
22. Choke Poppet Valve
23. Vent Tube
24. Small Venturi
25. High Speed Bleed
26. Large Venturi
27. Idle Tube
28. Throttle Valve



Note—Specifications below are for latest production; previous major changes listed on parts page.

FUEL LEVEL—For measuring fuel level it is advisable to use on open vessel with a leveled top, large enough to support the throttle valve body and to accommodate the float assembly. Place main body gasket between body and vessel before checking. Connect gas line to inlet in throttle body and allow gas to feed into measuring vessel at **2 lbs.** pressure until flow is stopped by the closing of the float needle valve. Fuel level should measure 31/32″ below top surface of vessel (without gasket); use standard depth gauge for measuring fuel level.

MAIN METERING SYSTEM—Venturi **1-9/16″,** P-17739; Main Discharge Jet **No. 28,** P-17250; (**Tool T-20180** used to remove main disch. jet plug). High Speed Bleeder **No. 65** P-16320; Main Metering Jet .077″ P-15384, (**Tool T-20139**). (Use new P-21372 main disch. jet gasket when replacing main disch. jet.)

POWER SYSTEM—Combination Power and Pump By-Pass Jet **.056″** P-16786 (**Tool T-20138**); Power System is brought into operation at **4″** to **6″** of manifold vacuum. Use **Tool T-23785** to remove pump inlet check valve.

ACCELERATION—Pump stroke adjusted by adjustment screw above pump vacuum piston. Screw "in" to shorten stroke, "out" to lengthen. Adjustment screw to be set 1/8″ below top surface of throttle body flange.

IDLE SYSTEM—Idle discharge holes **Nos. 56-60.** With throttle valve fully closed and **No. 56** drill in idle hole, edge of valve is located **Flush** + — **.004″** from **No. 56** drill. Idle tube **No. 72** P-22702; Adjust to smooth running, IN to make richer, OUT to make leaner.

VACUUM SPARK CONTROL—With throttle fully closed and **No. 50** drill in spark hole, edge of valve is located **.040″** from **No. 50** drill.

THERMOSTAT SETTING — Set Thermostat **10** notches rich.

DEFLOODER ADJUSTMENT—With Throttle Valve held in wide open position choke valve should be open from 25/64″ drill to 11/32″ drill (Flatted Stem) and 27/64″ drill to 3/8″ drill (Slotted Stem). Bend pin in choke stem to obtain correct opening.

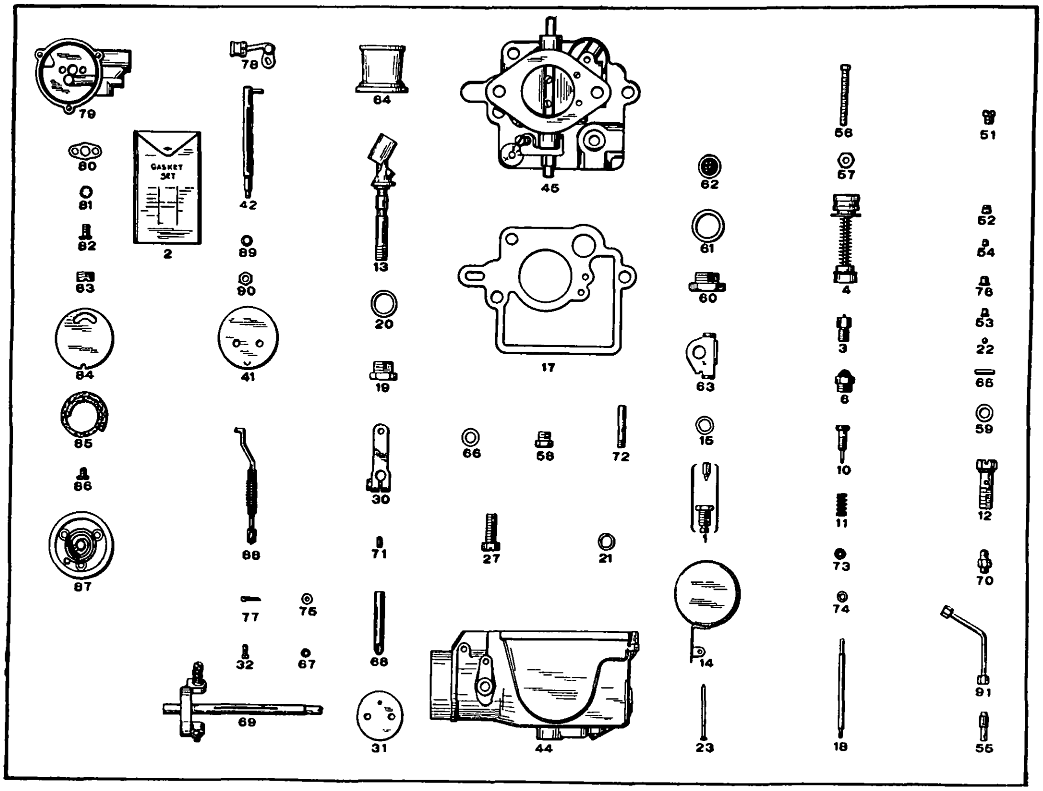
FLANGE GASKET—P-24772.

SPECIAL TOOLS REQUIRED—T-20139 Main Discharge and Metering Jet; T-20138 By-Pass jet socket wrench; T-20180 Main Disch. Jet plug socket wrench; T-23785 Check valve socket wrench; T-20182 Bushing and vent tube remover; T-24972 Pump Burette gauge. T-25034 Float Needle Valve Seat socket wrench.

MOTOR TUNE-UP DATA

Diversification of Equipment makes standard tune-up specifications impossible.

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Key No	Part No	Part Name
1	P 18812	Float Needle Valve and Seat (NOT VAR)
2	J 4271 G	Complete Set of Gaskets
3	P 16786	By Pass Jet 056" (VAR)
4	P 23126	Pump Piston
6	P 23135	Pump Inlet Check Valve
10	P 15396	Idle Needle Valve
11	P 12530	Spring—Idle Needle Valve
12	P 15384	Metering Jet 077' (VAR)
13	P 17250	Main Discharge Jet No 28 (VAR)
14	382066	Float
15	P 14364	Gasket—Float Needle Valve Seat
17	P 17585	Gasket—Main Body
18	P 22702	Idle Tube
19	P 16762	Nut—Main Discharge Jet
20	P-5636	Gasket—Main Discharge Jet Nut
21	P 5364	Lockwasher—Main Body Attach Screw
23	P 16760	Fulcrum Pin—Float
27	P 16849	Screw—Main Body Attach
30	P 23860	Throttle Lever
	P 15817	Screw—Clamp
31	P 16065	Throttle Valve 21°
32	P 285	Screw—Throttle Valve Attach
41	P 23406	Choke Valve
42	P 24117	Choke Stem and Pin
44	P 23865	Main Body
45	382314	Throttle Body (complete with Nos 56-60 idle hole and No 50 spark hole throttle stem and valve) (VAR)
51	P 16179	Drain—By Pass No 58 (VAR)
52	P 7098	Plug—Vacuum Channel
53	P 15458	Plug—Drive
54	P 12780	Plug—Idle Discharge Hole
55	P 16764	Pin—Choke Valve Stop
56	P 19911	Screw—Pump Adj
57	P 14618	Nut—Pump Adj Screw
58	P 8387	Plug—Gasoline Inlet
59	P 6855	Gasket—Metering Jet
60	P 17140	Plug—Gasoline Strainer

Key No	Part No	Part Name
61	P 20235	Gasket—Gasoline Strainer Plug
62	P 12958	Strainer—Gasoline
63	P 17500	Hanger
64	P 17498	Venturi 1-9/16" (VAR)
65	P 16850	Pin—Main Jet Locating
66	P 21372	Gasket—Main Discharge Jet
67	P 1693	Lockwasher—Valve Screw
68	P 17499	Vent Tube
69	P 24418	Throttle Stem and Stop
70	P 23370	Nipple—Vacuum Tube
71	P 14745	Set Screw—Vent Tube
72	P 16320	High Speed Bleeder No 65 (VAR)
73	P 14160	Washer—Idle Tube—Cork
74	P 22713	Washer—Idle Tube
75	P 24179	Washer—Elect Unit Attach Screw
76	P 15459	Plug—Idle Drilling Hole
77	P 7170	Cotter Pin—Kick Rod
78	P 24113	Vacuum Piston and Link
79	P 24110	Thermostat Housing
80	P 23410	Gasket—Thermostat Housing Boss
81	P 15346	Lockwasher—Therm Housing Attach Screw
82	P 23122	Screw—Therm Housing Attach
83	P 23158	Plug—Vacuum Piston Channel
84	P 23051	Plate—Baffle
85	P 23052	Insulator—Elect Unit
86	P 21596	Screw—Elect Unit Attach
87	P 24111	Assy —Thermostat and Elect Unit
88	P 24112	Wide Open Kick Rod
89	P 15875	Lockwasher—Vac Piston Lever Nut
90	P 16571	Nut—Vacuum Piston Lever
91	P 23419	Vacuum Tube
*92	P 26	Plug—Drain Boss
*93	P 15277	Union
*94	P 3292	Plug—Governor Conn
*95	P 19901	Collar—Throttle Stem
*96	P 16161	Set Screw—Throttle Stem Collar
*97	P 15259	Screw—Choke Valve Attach

***Note**—Parts Not Illustrated

BENDIX PRODUCTS DIVISION
SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

Printed in U S A

STROMBERG "EE-1" CARBURETOR

STROMBERG NO. A-18471 (CODE NO. 8-30B) NASH SYMBOL 102610A

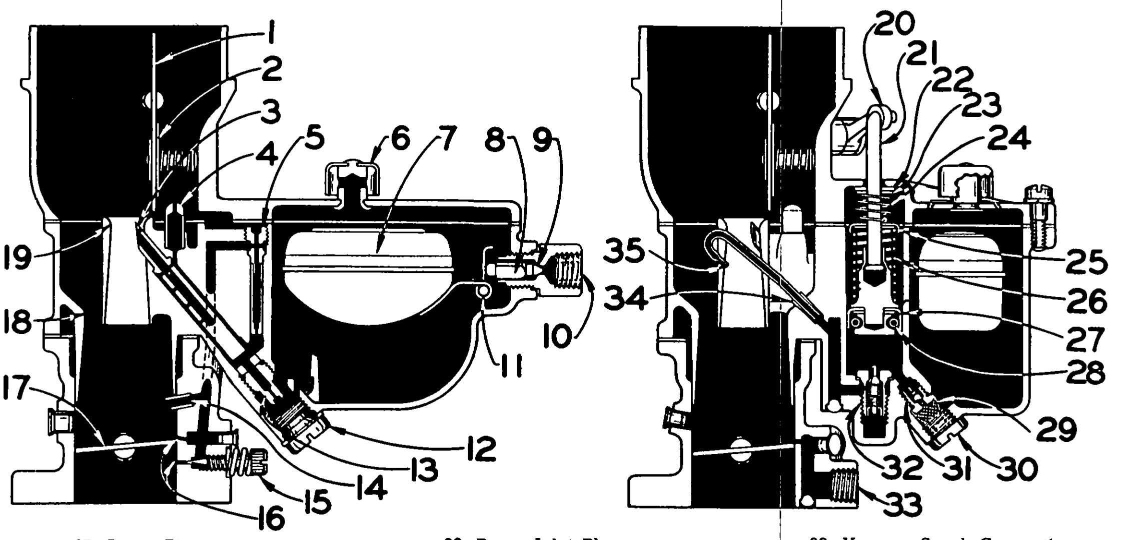
SIZE: 1" DUAL D. D. 3-HOLE FLANGE

1939 LAFAYETTE

DELUXE
MODEL
3910
3⅜"x4⅜"—6 cyl.

PARTS ILLUSTRATED

1 Choke Valve
2 Choke Relief Valve
3 Main Discharge Jet
4 High Speed Bleeder
5 Idle Tube
6 Float Chamber Vent
7 Float
8 Float Needle Valve
9 Float Needle Valve Seat
10 Gasoline Inlet
11 Float Fulcrum Pin
12 Main Discharge Jet Plug
13 Main Metering Jet
14 Secondary Idle Air Bleed
15 Idle Needle Valve
16 Idle Discharge Holes
17 Throttle Valve
18 Primary Venturi
19 Secondary Venturi
20 Pump Fulcrum Arm
21 Pump Piston Link
22 Felt Washer
23 Dust Washer
24 Dust Washer Spring
25 Spring Retainer Washer
26 Pump Duration Spring



27 Pump Piston
28 Pump Piston Expansion Spring
29 Pump Inlet Strainer
30 Pump Inlet Plug
31 Pump Inlet Check Valve
32 Power By-Pass Jet
33 Vacuum Spark Connection
34 Pump Discharge Nozzle Holder
35 Pump Discharge Nozzle

Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **15/32"** below top surface of float chamber (without gasket) at 3 lbs. pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level)

MAIN METERING SYSTEM—Venturi **31/32"**; Main Discharge Jet **No. 32** P-24155 **(Tool T-24967)**; High Speed Bleeder **No. 65** P-22764; Main Metering Jet **.044"** P-19442 **(Tool T-24924)**. Use **Tool T-19099** to remove Main Jet Plug; Main Metering System controls the flow of fuel up to approximately 65 to 70 M P H.

POWER SYSTEM—Combination Power and Pump By-Pass Jet **No. 60** P-20752. Pump piston to rest on seat of by-pass jet (less over-travel) with throttle valve opened **5/16"** (maximum setting) (measure with shank end of **5/16"** drill) bend pump fulcrum arm to obtain correct setting. The Power Jet is brought into action at approximately 65 to 70 M P. H.

ACCELERATION—Pump Discharge Nozzles **No. 70** (in body; Pump capacity **27** to **31** c.c. per 10 fast strokes and **27** to **31** c c per 10 slow strokes (Maximum setting.) Minimum setting between April 1 and Sept. 30. **(Tool T-24972).** Pump action takes place during acceleration period only.

IDLE SYSTEM—Idle Discharge Holes **N . 56-60;** with throttle valve fully closed and **No. 60** drill in idle hole, edge of valve is located **.030"** + — **.004"** from **No. 60** drill; Idle Air Bleed **No. 52** P-24159 (in throttle body) **No. 70** (in idle tube); Idle Tube **No. 70** P-24157. **Adjustment:** Adjust to smooth running, one barrel at a time, OUT to make richer and IN to make leaner. Throttle at 7 to 8 M. P. H.

VACUUM SPARK CONTROL—With throttle fully closed and **No. 52** drill in spark hole, edge of valve is located **Flush** with **No. 52** drill.

FLANGE GASKET—P-20466.

SPECIAL TOOLS REQUIRED—Use Nash complete Tool Kit **SER. 385:** T-24733 Float Adjuster; T-24967 Main Discharge Jet Remover; T-24924 Main Metering Jet Wrench; T-24970 By-Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burrette Gauge; T-24968 Handle, T-19099 Main Jet Plug Screw Driver.

MOTOR TUNE-UP DATA

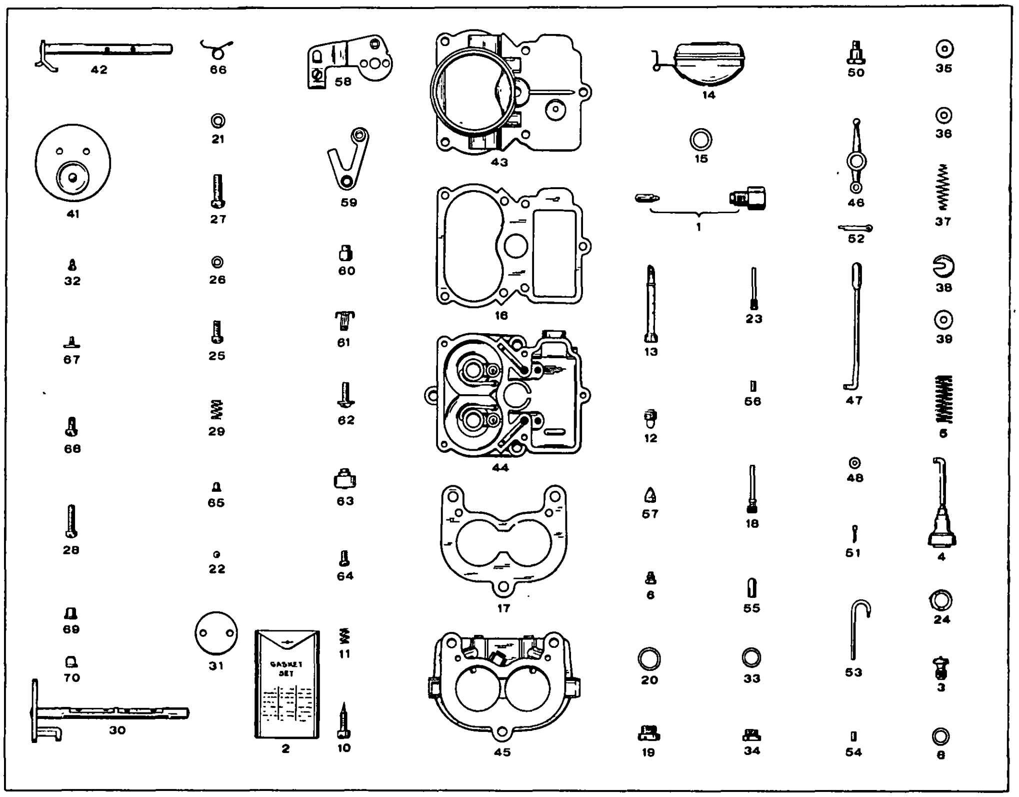
SPARK PLUGS—.025" to .028".
Clean and adjust at regular intervals.

DISTRIBUTOR—.020".
Breaker gap set .020".
Replace if necessary.

VALVES—Intake: .015" to .017".
Exhaust: .015" to .017". Engine hot.

IGNITION TIMING—Set breaker contact points to open for No. 1 cylinder when "IGN" mark on front flywheel (vibration damper) is in line with pointer on chain case cover.

SERVICE RECOMMENDATION — Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No.	Part No.	Part Name
	1	**P-20256**	Float Needle Valve and Seat—.093"....**(NOT VAR.)**
	2	**J-5412-G**	Complete Gasket Set
	3	**P-20752**	Power By-Pass Jet No. 60 **(NOT VAR.)**
	4	**P-22058**	Pump Piston and Link **(Includes P-16960)**
	4-A	**P-24576**	Pump Piston Link and Spring (Complete)
	5	**P-24575**	Spring—Pump Duration
	6	**P-18144**	Pump Inlet Check Valve
	8	**P-19448**	Gasket—By-Pass Jet
	10	**P-15478**	Idle Needle Valve
	11	**P-15481**	Spring—Idle Needle Valve
	12	**P-19442**	Metering Jet—**.044"** ....**(VAR.) (Supersedes P-22660)**
	13	**P-24155**	Main Discharge Jet No. 32 **(NOT VAR.)**
	14	**P-24153**	Float and Lever
	15	**P-10666**	Gasket—Float Needle Valve Seat
	16	**P-24196**	Gasket—Air Horn
	17	**P-19432**	Gasket—Main Body
	18	**P-24537**	Idle Tube
	19	**P-22019**	Plug—Main Discharge
	20	**P-2886**	Gasket—Main Discharge Jet Plug
	21	**P-3157**	Lockwasher—Main Body Attaching Screw
	22	**P-18772**	Lead Ball
	23	**P-18125**	Screw—Fulcrum—Float Lever
	24	**P-16960**	Spring—Pump Piston Leather Expansion
	25	**P-3199**	Screw—Air Horn Attaching
	26	**P-1791**	Lockwasher—Air Horn Attach. Screw
	27	**P-709**	Screw—Main Body Attaching
	28	**P-15456**	Screw—Throttle Stop
	29	**P-15831**	Spring—Throttle Stop Screw
	30	**P-24167**	Throttle Lever and Stem
	31	**P-20874**	Throttle Valve (5°) **(NOT VAR.)**
	32	**P-4522**	Screw—Throttle Valve Attach. and Choke Valve Attach.
	33	**P-7338**	Gasket—Check Valve Plug
	34	**P-19716**	Plug—Check Valve
	35	**P-17380**	Felt Washer—Pump Link
	36	**P-17060**	Washer—Pump Link—Splash
	37	**P-22643**	Spring—Packing Retainer
	38	**P-22045**	Washer—Horseshoe
	39	**P-22046**	Washer—Spring Retainer
	41	**P-19746**	Choke Valve
	42	**P-24191**	Choke Stem and Lever
	43	**P-24152**	Air Horn and Vent
	43-A	**P-24165**	Assy.—Air Horn and Valve
	44	**P-24154**	Assy.—Main Body—**31/32"** Venturi, **No. 65** H. S. Bleeder and **No. 70** Pump Disch. Tube **(VAR.)**
	45	**P-24158**	Assy.—Throttle Body **No. 56-60** Idle Disch. Holes **No. 52** Idle Air Bleeder **(VAR.)**
	46	**P-19427**	Pump Lever
	47	**P-20984**	Pump Rod
	48	**P-10495**	Washer—Pump Rod
	50	**P-19433**	Screw—Pump Lever Fulcrum
	51	**P-7170**	Cotter Pin—Pump Rod
	52	**112-S-22**	Cotter Pin—Pump Link and Rod
	53	**P-24156**	Pump Discharge Tube No. 70 **(NOT VAR.)**
	54	**P-19430**	Wedge—Pump Tube
	55	**P-22764**	High Speed Bleeder **No. 65** **(VAR.)**
	56	**P-24159**	Idle Air Bleeder No. 52 **(NOT VAR.)**
	57	**P-23849**	Strainer—Pump Check Valve
	58	**P-17067**	Assy.—Tube Holder
		P-17051	Tube Holder
		P-11561	Tube Holder Clamp
		P-12888	Tube Holder Clamp Screw
		P-8806	Tube Holder Clamp Screw Nut
	59	**P-23085**	Choke Lever with Wire Conn. and Screw
	60	**P-17058**	Bushing—Choke Lever Fulcrum Screw
	61	**P-17068**	Spring—Choke Valve Return
	62	**P-17059**	Screw—Fulcrum—Choke Lever
	63	**P-17832**	Float Chamber Vent
	64	**P-9270**	Screw—Wire Connector
	65	**P-15458**	Drive Plug No. 10
	66	**P-17132**	Spring—Choke Lever Return
	67	**P-19818**	Cap—Choke Stem
	68	**P-17093**	Screw—Choke Tube Holder Attaching
	69	**P-15459**	Plug—Drive 1/4"
	70	**P-20454**	Plug—Drive 17/64"

NOTE—For parts marked (VAR.) size must be specified when ordering.

BENDIX PRODUCTS DIVISION
SOUTH BEND OF BENDIX AVIATION CORPORATION **INDIANA**

STROMBERG "AX-2" CARBURETOR

STROMBERG NO. A-18322 (CODE NO. 8-25A) NASH SYMBOL 90457

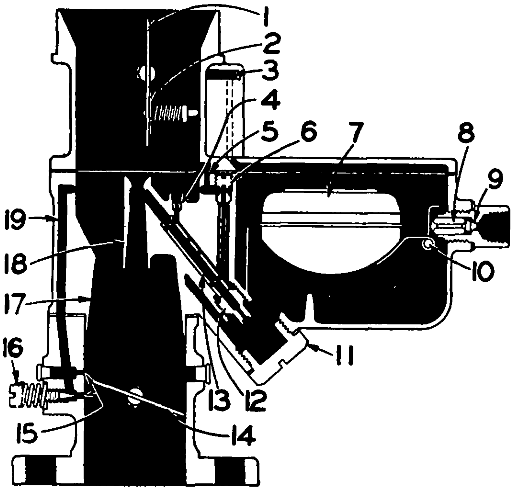
SIZE: 1¼" D. D. S. A. E. 2-11/16" FLANGE CENTERS **REPLACE WITH BXOV-2 EQPT. J-5506**

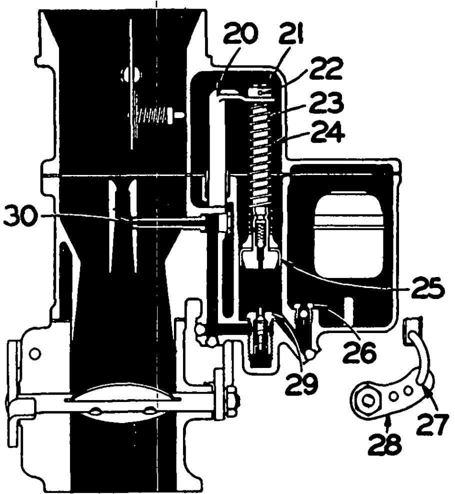
1937-38
LAFAYETTE

MODELS
1937—3710
1938—3810
3⅜"x4⅜"—6 cyl.

PARTS ILLUSTRATED

1. Choke Valve
2. Choke Relief Valve
3. Float Chamber Vent
4. High Speed Bleeder
5. Idle Air Bleeder
6. Idle Tube
7. Float
8. Float Needle Valve
9. Float Needle Valve Seat
10. Float Fulcrum Pin
11. Main Discharge Jet Plug
12. Main Metering Jet
13. Main Discharge Jet
14. Throttle Valve
15. Idle Discharge Holes
16. Idle Needle Valve
17. Primary Venturi
18. Auxiliary Venturi
19. Idle Channel
20. Pump Rod
21. Power Adjustment Nut
22. Cotter Pin
23. Pump Piston Connecting Rod
24. Pump Duration Spring
25. Pump Piston
26. Pump Inlet Check Valve
27. Pump Adjustment Link
28. Pump Lever
29. Power By-Pass Jet
30. Pump Discharge Nozzle





Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **5/8"** below top surface of float chamber (without gasket) at 3 lbs. pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level.)

MAIN METERING SYSTEM—Venturi 1⅛"; Main Discharge Jet **No. 32** P-21766 **(Tool T24967);** High Speed Bleeder **No. 70** (in main body); Main Metering Jet **.056"** P-19442 **(Tool T-24924).** Use **Tool T-19099** to remove Main Jet Plug; Main Metering System controls the flow of fuel up to approximately 65 to 70 M. P. H.

POWER SYSTEM—Combination Power and Pump By-Pass Jet **2 No. 56** P-21766. Pump piston to rest on seat of by-pass jet (less over-travel) with throttle valve opened **21/64"** (link in end hole of pump lever) (measure with shank end of **21/64"** drill) adjust pump stem nut to obtain correct setting. The Power Jet is brought into action at approximately 65 to 70 M. P. H.

ACCELERATION — Pump Discharge Nozzle **No. 59** P-21944; Pump capacity **11** to **15** c.c. per 10 fast strokes and **18** to **22** cc.. per 10 slow strokes. (Maximum setting.) Middle setting between April 1 and Sept. 30. **(Tool T-24972)** Pump action takes place during acceleration period only.

IDLE SYSTEM—Idle Discharge Holes **No. 56-58;** with throttle valve fully closed and **No. 58** drill in idle hole, edge of valve is located **.012" + — .004"** from **No. 58** drill; Idle Air Bleed **No. 53** (in main body); Idle Tube **No. 68** P-21962. **Adjustment:** Adjust to smooth running, OUT to make richer and IN to make leaner. Throttle at 7 to 8 M. P. H.

FLANGE GASKET—P-4752.

SPECIAL TOOLS REQUIRED—Use Nash complete Tool Kit **SER. 385;** T-24733 Float Adjuster; T-24967 Main Discharge Jet Remover; T-24924 Main Metering Jet Wrench; T-24970 By-Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burrette Gauge; T-24968 Handle; T-19099 Main Jet Plug Screw Driver.

MOTOR TUNE-UP DATA

SPARK PLUGS—.025".
Clean and adjust at regular intervals.

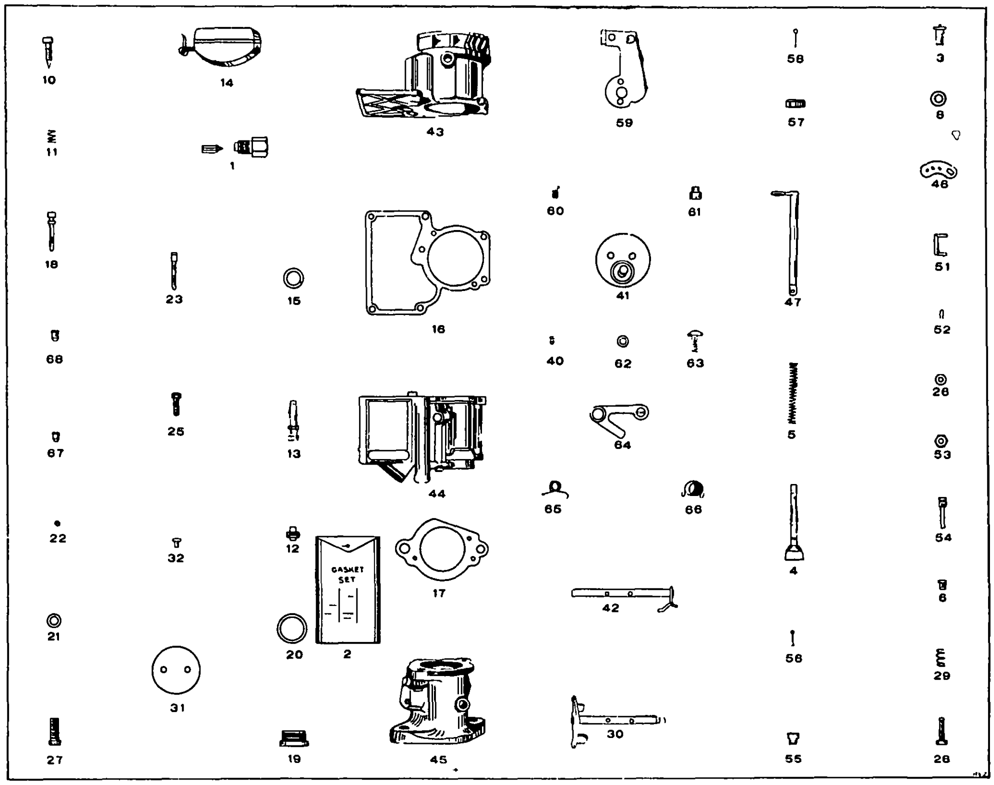
DISTRIBUTOR—.020".
Breaker gap set .020".
Replace if necessary.

VALVES—Intake: .015".
Exhaust: .015". **Engine hot.**

IGNITION TIMING—Breaker contacts to open for No. 1 cylinder when "IGN" mark on front flywheel (vibration damper) is in line with pointer on chain case cover.

SERVICE RECOMMENDATION — Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No.	Part No.	Part Name	
	1	P 21918	Float Needle Valve & Seat— 093'	(NOT VAR.)
	2	J-4611-G	Complete Gasket Set	
	3	P-21776	Power By Pass Jet No 56	(NOT VAR.)
	4	P-21768	Pump Piston and Stem	
	5	P-21960	Spring--Pump Duration	
	6	P 18144	Pump Inlet Check Valve	
	8	P 19448	Gasket—By-Pass Jet	
	10	P-17402	Idle Needle Valve	
	11	P 15481	Spring—Idle Needle Valve	
	12	P-19442	Metering Jet .056"	(VAR.)
	13	P 21766	Main Discharge Jet No 32	(NOT VAR)
	14	P 19825	Float with Lever	
	15	P 10666	Gasket—Float Needle Valve Seat	
	16	P-21790	Gasket—Air Horn	
	17	P 21780	Gasket—Main Body	
	18	P-21962	Idle Tube No 68	(NOT VAR.)
	19	P-21767	Plug—Main Discharge Jet	
	20	P 22851	Gasket—Main Discharge Jet Plug	
	21	P 3157	Lockwasher—Main Body Attaching Screw	
	22	P-18772	Lead Ball	
	23	P-18125	Screw—Fulcrum —Float Lever	
	25	P-3199	Screw—Air Horn Attaching	
	26	P-1791	Lockwasher—Air Horn Attaching Screw	
	27	P-13041	Screw—Main Body Attaching	
	28	P-15456	Screw—Throttle Stop	
	29	P-15831	Spring—Throttle Stop Screw	
	30	P-21781	Throttle Lever and Stem	
	31	P-6454	Throttle Valve (18½°)	(VAR.)
	32	P 16717	Screw—Throttle Valve Attach	
	40	P 4522	Screw—Choke Valve Attaching	
	41	P 21784	Choke Valve	
	42	P-21912	Choke Stem and Stop	
	43	P-21763-A	Air Horn	
	43-A	P-21783	Assy —Air Horn and Valve	
	44	P 21772-A	Assy —Main Body 1⅛" Venturi No. 70 H S Bleeder No. 53 Idle Air Bleed	(VAR.)
	45	P-21764	Throttle Body No. 56-58 Idle Disch Holes	(VAR.)
	46	P-21774	Pump Lever	
	47	P 21775	Pump Rod	
	51	P 20958	Pump Link	
	52	P-18366	Cotter Pin—Pump Link	
	53	P-2290	Nut—Pump Lever-Attach	
	54	P 21944	Pump Discharge Nozzle No. 59	(VAR.)
	55	P-21949	Plug—Pump Disch Channel	
	56	P-6666	Cotter Pin—Choke Stem	
	57	P-18135	Nut—Pump Stem Adj	
	58	P-4	Cotter Pin—Pump Adj Nut	
	59	P-17067	Assy —Choke Tube Holder	
		P-17051	Tube Holder	
		P 11561	Tube Holder Clamp	
		P 12868	Tube Holder Clamp Screw	
		P-8806	Tube Holder Clamp Screw Nut	
	60	P-17093	Screw—Choke Tube Holder Attach	
	61	P-17058	Bushing—Choke Lever Fulcrum Screw	
	62	P-4735	Washer—Choke Stem	
	63	P-17059	Screw—Choke Lever Fulcrum	
	64	P-23085	Choke Lever with Wire Conn and Screw	
		P 9270	Wire Connector Screw	
	65	P-17068	Spring—Choke Valve Return	
	66	P-17132	Spring—Choke Lever Return	
	67	P-15459	Plug—Idle Disch Channel ¼"	
	68	P-15458	Plug—Idle Disch Channel No 10	

NOTE—For parts marked (VAR.) size must be specified when ordering.

BENDIX PRODUCTS DIVISION

SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

STROMBERG "AX-2" CARBURETOR

STROMBERG NO. A-18272 LAFAYETTE SYMBOL 90389

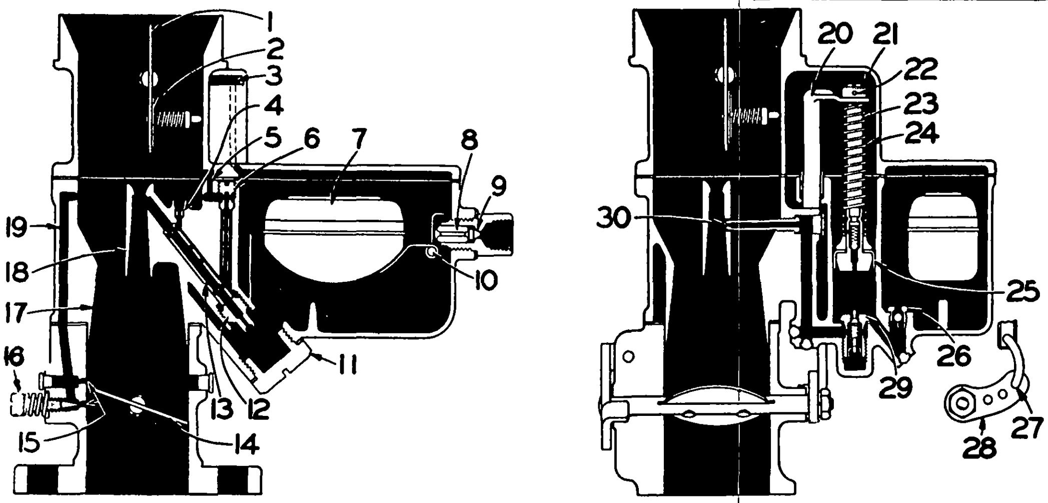
SIZE: 1¼" D. D. S. A. E. 2-11/16" FLANGE CENTERS **REPLACE WITH BXOV-2 EQPT. J-5506**

1936
LAFAYETTE

MODEL
3610
3¼"x4⅜"—6 cyl.

PARTS ILLUSTRATED

1. Choke Valve
2. Choke Relief Valve
3. Float Chamber Vent
4. High Speed Bleeder
5. Idle Air Bleeder
6. Idle Tube
7. Float
8. Float Needle Valve
9. Float Needle Valve Seat
10. Float Fulcrum Pin
11. Main Discharge Jet Plug
12. Main Metering Jet
13. Main Discharge Jet
14. Throttle Valve
15. Idle Discharge Holes
16. Idle Needle Valve
17. Primary Venturi
18. Auxiliary Venturi
19. Idle Channel
20. Pump Rod
21. Power Adjustment Nut
22. Cotter Pin
23. Pump Piston Connecting Rod
24. Pump Duration Spring



25. Pump Piston
26. Pump Inlet Check Valve
27. Pump Adjustment Link
28. Pump Lever
29. Power By-Pass Jet
30. Pump Discharge Nozzle

Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **5/8"** below top surface of float chamber (without gasket) at 3 lbs. pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level.)

MAIN METERING SYSTEM—Venturi 1⅛"; Main Discharge Jet **No. 32** P-21766 **(Tool T-24967)**; High Speed Bleeder **No. 70** (in body); Main Metering Jet **.057"** P-19442 **(Tool T-24924)**. Use **Tool T-19099** to remove Main Jet Plug; Main Metering System controls the flow of fuel up to approximately 65 to 70 M. P. H.

POWER SYSTEM—Combination Power and Pump By-Pass Jet **2 No. 56** P-21776. Pump piston to rest on seat of by-pass jet (less over-travel) with throttle valve opened **5/16"** (link in end hole of pump lever) (measure with shank end of **5/16"** drill) adjust pump piston stem nut to obtain correct setting. The Power Jet is brought into action at approximately 65 to 70 M. P. H.

ACCELERATION — Pump Discharge Nozzle **No. 64** P-21944; Pump capacity **12** to **16** c.c. per 10 fast strokes and **22** to **26** c.c. per 10 slow strokes. (Maximum setting.) Middle setting between April 1 and Sept. 30. Use **Tool T-24972.** Pump action takes place during acceleration period only.

IDLE SYSTEM—Idle Discharge Holes **No. 56-60;** with throttle valve fully closed and **No. 60** drill in idle hole, edge of valve is located **.012"** + — **.004"** from **No. 60** drill; Idle Air Bleed **No. 53** (in main body); Idle Tube **No. 70** P-21778. **Adjustment:** Adjust to smooth running, OUT to make richer and IN to make leaner. Throttle at 7 to 8 M. P. H.

FLANGE GASKET—P-4752.

SPECIAL TOOLS REQUIRED—Use Nash complete Tool Kit **SER. 385;** T-24733 Float Adjuster; T-24967 Main Discharge Jet Remover; T-24924 Main Metering Jet Wrench; T-24970 By-Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burrette Gauge; T-24968 Handle; T-19099 Main Jet Plug Screw Driver.

MOTOR TUNE-UP DATA

SPARK PLUGS—.025".
Clean and adjust at regular intervals.

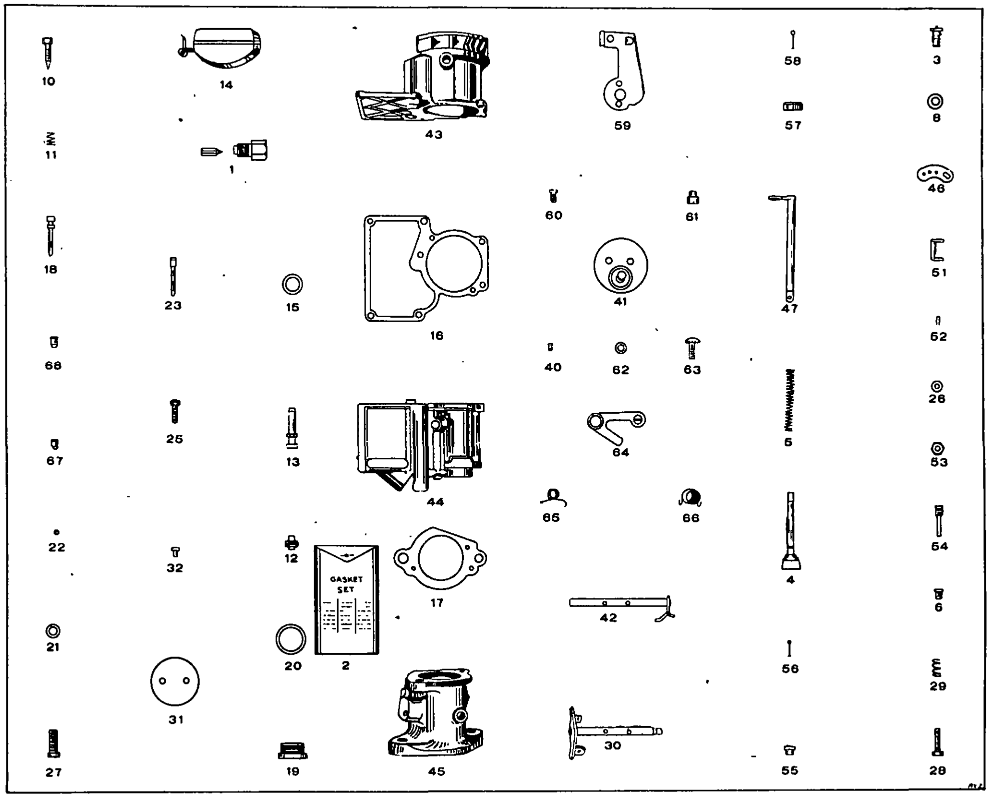
DISTRIBUTOR—.020".
Breaker gap set .020".
Replace if necessary.

VALVES—Intake: .015".
Exhaust: .015". **Engine hot.**

IGNITION TIMING—Breaker contacts to open with "IGN" (first) mark on front vibration damper is directly under pointer on chain case cover.

SERVICE RECOMMENDATION — Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No.	Part No.	Part Name
	1	**P-21918**	Float Needle Valve & Seat—.093"....**(NOT VAR.)**
	2	**J-4611-G**	Complete Gasket Set
	3	**P-21776**	Power By-Pass Jet No. 56 ....**(NOT VAR.)**
	4	**P-21768**	Pump Piston and Stem
	5	**P-22020**	Spring—Pump Duration
	6	**P-18144**	Pump Inlet Check Valve
	8	**P-19448**	Gasket—By-Pass Jet
	10	**P-17402**	Idle Needle Valve
	11	**P-15481**	Spring—Idle Needle Valve
	12	**P-19442**	Metering Jet—**.057"** ....**(VAR.)**
	13	**P-21766**	Main Discharge Jet No. 32 ....**(NOT VAR.)**
	14	**P-19825**	Float and Lever
	15	**P-10666**	Gasket—Float Needle Valve Seat
	16	**P-21790**	Gasket—Air Horn
	17	**P-21780**	Gasket—Main Body
	18	**P-21778**	Idle Tube No. 70 ....**(NOT VAR.)**
	19	**P-21767**	Plug—Main Discharge Jet
	20	**P-22851**	Gasket—Main Discharge Jet Plug
	21	**P-3157**	Lockwasher—Main Body Attach. Screw
	22	**P-18772**	Lead Ball
	23	**P-18125**	Screw—Fulcrum—Float Lever
	25	**P-3199**	Screw—Air Horn Attaching
	26	**P-1791**	Lockwasher—Air Horn Attach. Screw
	27	**P-13041**	Screw—Main Body Attaching
	28	**P-15456**	Screw—Throttle Stop
	29	**P-15831**	Spring—Throttle Stop Screw
	30	**P-21781**	Throttle Lever & Stem
	31	**P-6454**	Throttle Valve—**(18½°)** ....**(VAR.)**
	32	**P-16717**	Screw—Throttle Valve Attach
	40	**P-4522**	Screw—Choke Valve Attach.
	41	**P-21784**	Choke Valve
	42	**P-21912**	Choke Stem and Stop
	43	**P-21763-A**	Air Horn
	43-A	**P-21783**	Assy.—Air Horn and Valve
	44	**P-21772-A**	Assy.—Main Body 1⅛" Venturi **No. 70** H. S. Bleed **No. 53** Idle Air Bleed ....**(VAR.)**
	45	**P-21764**	Throttle Body **No. 56-60** Idle Disch. Holes **(VAR.)**
	46	**P-21774**	Pump Lever
	47	**P-21775**	Pump Rod
	51	**P-20958**	Pump Link
	52	**P-19374**	Cotter Pin—Pump Link
	53	**P-2290**	Nut—Pump Lever Attach.
	54	**P-21944**	Pump Discharge Nozzle **No. 64** ....**(VAR.)**
	55	**P-21949**	Plug—Pump Disch. Channel
	56	**P-6666**	Cotter Pin—Choke Stem
	57	**P-18135**	Nut—Pump Stem Adj.
	58	**P-4**	Cotter Pin—Pump Adj. Nut
	59	**P-17067**	Assembly—Choke Tube Holder
		P-17051	Tube Holder
		P-11561	Tube Holder Clamp
		P-12868	Tube Holder Clamp Screw
		P-8806	Tube Holder Clamp Screw Nut
	60	**P-17093**	Screw—Choke Tube Holder Attach.
	61	**P-17058**	Bushing—Choke Lever Fulcrum Screw
	62	**P-4735**	Washer—Choke Stem
	63	**P-17059**	Screw—Choke Lever Fulcrum
	64	**P-23085**	Choke Lever with Connector and Screw
		P-9270	Wire Connector Screw
	65	**P-17068**	Spring—Choke Valve Return
	66	**P-17132**	Spring—Choke Lever Return
	67	**P-15459**	Plug—Idle Disch. Channel ¼"
	68	**P-15458**	Plug—Idle Discharge Channel No. 10

NOTE—For parts marked (VAR.) size must be specified when ordering.

BENDIX PRODUCTS DIVISION
SOUTH BEND **OF BENDIX AVIATION CORPORATION** **INDIANA**

STROMBERG "AA-25" CARBURETOR

STROMBERG NO. A-18352 LA SALLE SYMBOL 1419627

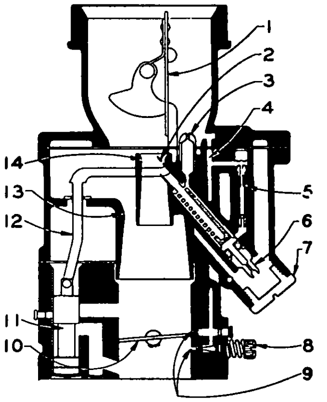
SIZE: 1¼" DUAL D. D. 4-HOLE FLANGE

1937
LASALLE

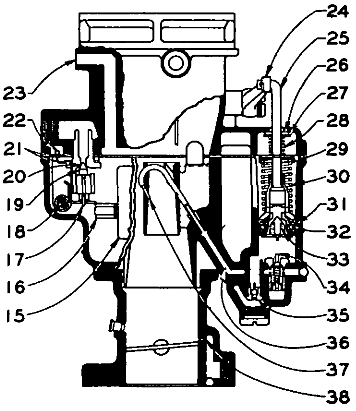
MODEL
60-65-70-75
3⅜"–3½"x4"—8 cyl.

PARTS ILLUSTRATED

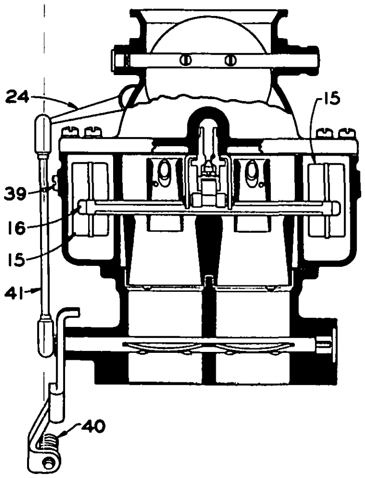
1 Choke Valve
2 Main Discharge Jet
3 High Speed Bleeder
4 Idle Air Bleeder
5 Idle Tube
6 Main Metering Jet
7 Main Discharge Jet Plug
8 Idle Needle Valve
9 Idle Discharge Holes
10 Throttle Valve
11 Automatic Choke Piston
12 Vacuum Piston Link
13 Primary Venturi
14 Auxiliary Venturi
15 Float
16 Float Lever
17 Float Needle Valve Clip
18 Float Fulcrum Pin
19 Float Needle Valve
20 Float Needle Valve Seat
21 Float Hanger Gaskets
22 Float Hanger
23 Float Chamber Vent
24 Pump Fulcrum Arm
25 Pump Piston Link
26 Felt Dust Washer
27 Retainer Washer
28 Dust Washer Spring
29 Spring Retainer Washer



30 Pump Duration Spring
31 Pump Piston
32 Pump Expansion Spring
33 Pump Relief Valve



34 Power Pump By Pass Jet
35 Pump Inlet Check Valve
36 Pump Discharge Channel
37 Pump Discharge Nozzle



38 Spark Control Hole
39 Fuel Level Sight Plug
40 Throttle Stop Screw
41 Pump Rod

Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **5/8"** below top surface of float chamber (without gasket) or level with bottom of the level sight hole at 3 lbs pressure To correct fuel level hold air horn in inverted position Place **Tool T-24971** on gasket. Tops of floats should be level with tops of vertical guides, which will give approximate fuel level change if necessary Sides of floats should be tangent to guides of tool without drag

MAIN METERING SYSTEM—Venturi 1⅛"; Main Discharge Jet **No. 28-36** P-22603 **(Tool T-24967);** High Speed. Bleeder **No. 65** P-22369 Main Metering Jet **.051"** P 22660 **(Tool T-24924); (Tool T-19099)** used to remove main jet plug, Main Metering System controls the flow of fuel up to approximately 70 to 75 M P H

POWER SYSTEM—Combination Power and Pump By-Pass Jet **No. 63** P-19447, Pump piston to rest on seat of by pass jet (less over travel) with throttle valve opened **21/64" + — 1/64"** (measure with shank end of **21/64"** drill) adjust by bending pump fulcrum arm at ball joint end The Power Jet is brought into action at approximately 70 to 75 M P H

ACCELERATION—Pump Discharge Nozzles **No. 65:** Pump capacity **18** to **22** c c per 10 fast strokes and **18** to **22** c c per 10 slow strokes (Minimum setting) **(Tool T-24972).** Pump action takes place during acceleration period only.

IDLE SYSTEM—Idle Discharge Holes **No. 54-55:** with throttle valve fully closed and **No. 55** drill in idle hole, edge of valve is located **.022" + — .004"** from **No. 55** drill Idle Air Bleed **No. 40** (in main body) **No. 60** (in idle tube), Idle Tube **No. 70** P 23110 **Adjustment:** Adjust to smooth running one barrel at a time, OUT to make richer and IN to make leaner Throttle at 7 to 8 M P H

DEFLOODER ADJUSTMENT—With throttle held in wide open position, choke valve should be open so that a **7/32"** drill can be placed between choke valve and air horn The amount of opening can be changed by bending the choke stem pin or deflooder rod

FLANGE GASKET—P-18165

SPECIAL TOOLS REQUIRED—Use Cadillac complete Tool Kit **SER. 361:** T-24971 Float Gauge; T-24967 Main Discharge Jet Remover, T-24924 Main Metering Jet Wrench, T-24970 By-Pass Jet and Check Valve Tester, T-24972 Pump Capacity Burrette Gauge, T 24968 Handle, T-24733 Choke Valve Bending Tool, T-19099 Main Jet Plug Screw Driver.

MOTOR TUNE-UP DATA

SPARK PLUGS—.027".
Clean and adjust at regular intervals.

DISTRIBUTOR—.0125" to .0175".
Breaker gap set .0125" to .0175".
Replace if necessary.

VALVES—Intake:
Exhaust: Automatic take-up.

IGNITION TIMING—Breaker contacts to open for No. 1 cylinder when mark "IGIA" on harmonic Balancer is in line with pointer.

SERVICE RECOMMENDATION — Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

GENERAL DESCRIPTION AND ADJUSTMENT OF AUTOMATIC CHOKE CONTROL

In the Stromberg Model "AA 25" carburetor the automatic choke control is built completely into the carburetor The principle of operation is the same as that used on the previous Cadillac models The tension of the thermostat is controlled by an electric heat unit connected directly to the choke valve stem making the entire unit intact The vacuum piston used to open the choke valve, when the engine begins to fire, is also built into the body In the Model "AA-25" carburetor the fast idle feature which supplies fuel during cranking period and keeps the engine from stalling while warming up is accomplished by a passage entering the throttle barrel below the throttle valve to feed the additional fuel with closed throttle This design eliminates all external parts and adjustments used in the previous method of fast idle Figs 1 4 show the automatic choke control and fast idle in the various stages of operation

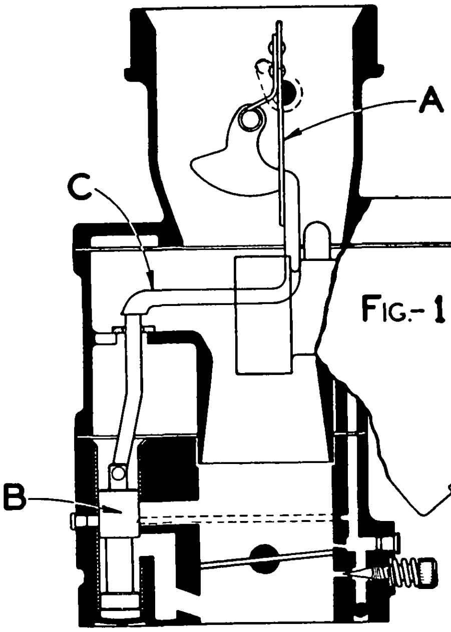


Fig.-1

CHOKE OPEN — SLOW IDLE — ENGINE HOT

Fig 1 shows the choke valve A in wide open position which it will be when a hot motor is stopped In this illustration the carburetor is shown at slow or curb idle, which should be adjusted by the throttle stop screw at 6 M P H with a hot engine and is the only adjustment required for the slow and fast idling of the engine

Vacuum piston "B" shown in the "lower" position, is connected to the choke valve by link "C In addition to the piston opening the choke valve it also controls the duration of the fast idle period The thermostat is connected to the carburetor choke valve stem

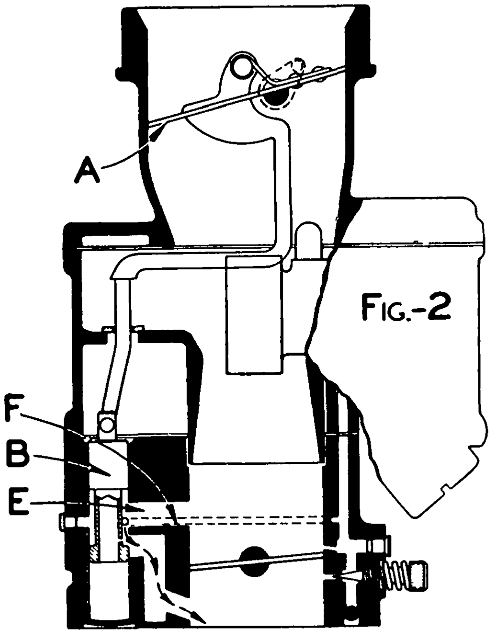


Fig.-2

CHOKE CLOSED — FAST IDLE

As the engine becomes cold, the thermostat also cools and gradually gains tension to close choke valve "A' With this movement, vacuum piston "B" is raised, opening fast idle passage "E so that air is drawn through "E" during the fast idle period The suction of the air draws fuel from passage "F" to supply the additional fuel for the fast idle During the cranking of the engine the choke valve remains in the position shown in Fig 2

CHOKE PARTIALLY OPEN — ENGINE FIRING — FAST IDLE

As the engine begins to fire and a manifold vacuum is created, vacuum piston "B" is pulled down to the position where the upper side hole in the piston is exposed to air taken through passage "E", stopping the pull on the piston With this action the choke valve opens slightly to admit sufficient air for running The air flowing through passage "E" draws fuel from passage "F" for the fast idle mixture

ADJUSTING: The pull of the vacuum piston should be set in accordance with the choke valve opening Remove drive plug from channel 'F" and insert shank end of a new No 34 Drill (.111") The choke valve should be opened until the piston comes to rest on the No 34 drill In this position the choke valve should be opened so that a **11/32"** drill can be placed between the valve and the air horn **Tool T-24733** can be used to change the opening by bending the lever between the choke valve and the piston link

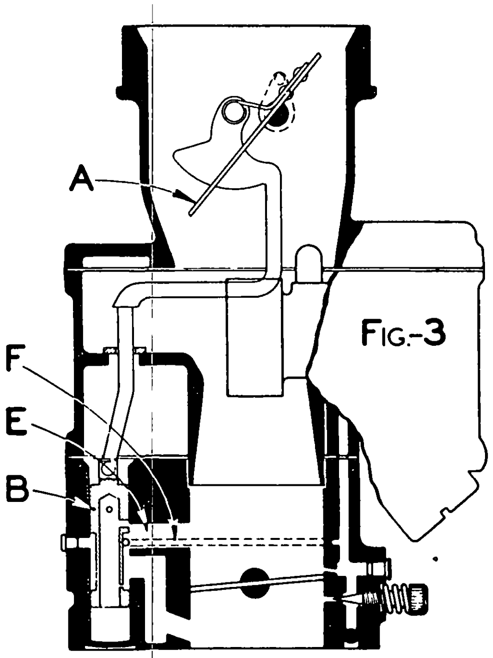


FIG.-3

ENGINE WARM — SLOW IDLE

The choke valve in the carburetor being off center continues to open by the force of the inrushing air, which works against the tension of the thermostat until the thermostat absorbs sufficient heat so that it will not offer any resistance As the choke valve "A" opens, it allows the vacuum piston "B' to lower until the piston closes passage "E" cutting off the supply of air and gas used for fast idle Fuel is then only taken through the regular idle discharge holes "N"

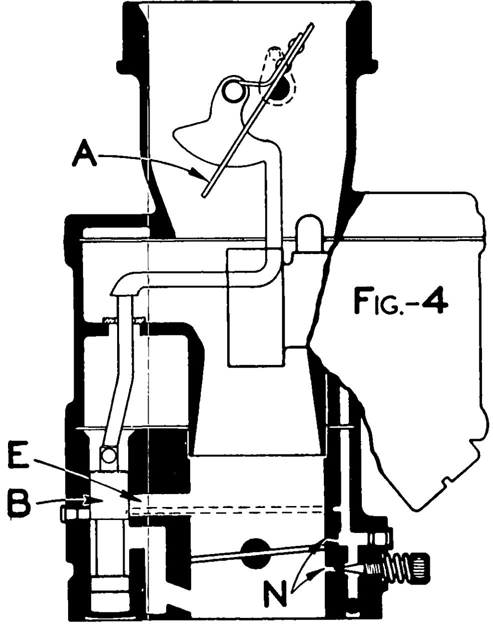


FIG.-4

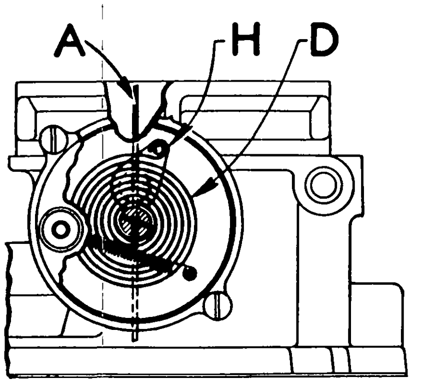
ADJUSTING THERMOSTAT

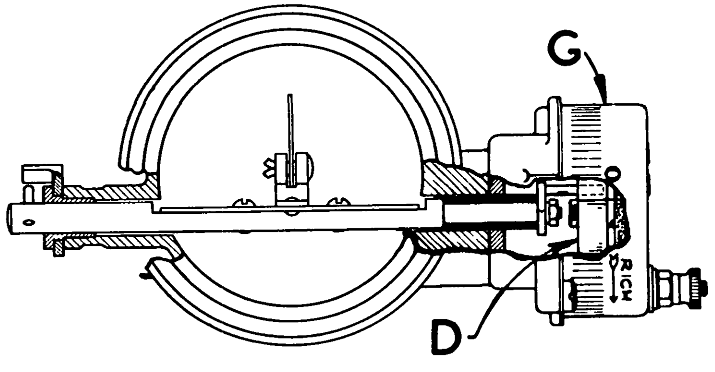
1 Remove thermostat case "G , allowing thermostat "D" to cool or warm until it has reached the temperature of 70° THIS IS VERY IMPORTANT

2 When the thermostat reaches 70°, the inside of hook "H" of the thermostat should coincide with the "zero" marking on the thermostat case, which is the original setting made at the factory When installing a new thermostat or other new parts, check the zero location very carefully at 70° temperature and change the location if necessary If it is impossible for the thermostat to reach 70°, you can provide for the difference by allowing one graduation on thermostat case for every 5° variation in temperature of the thermostat

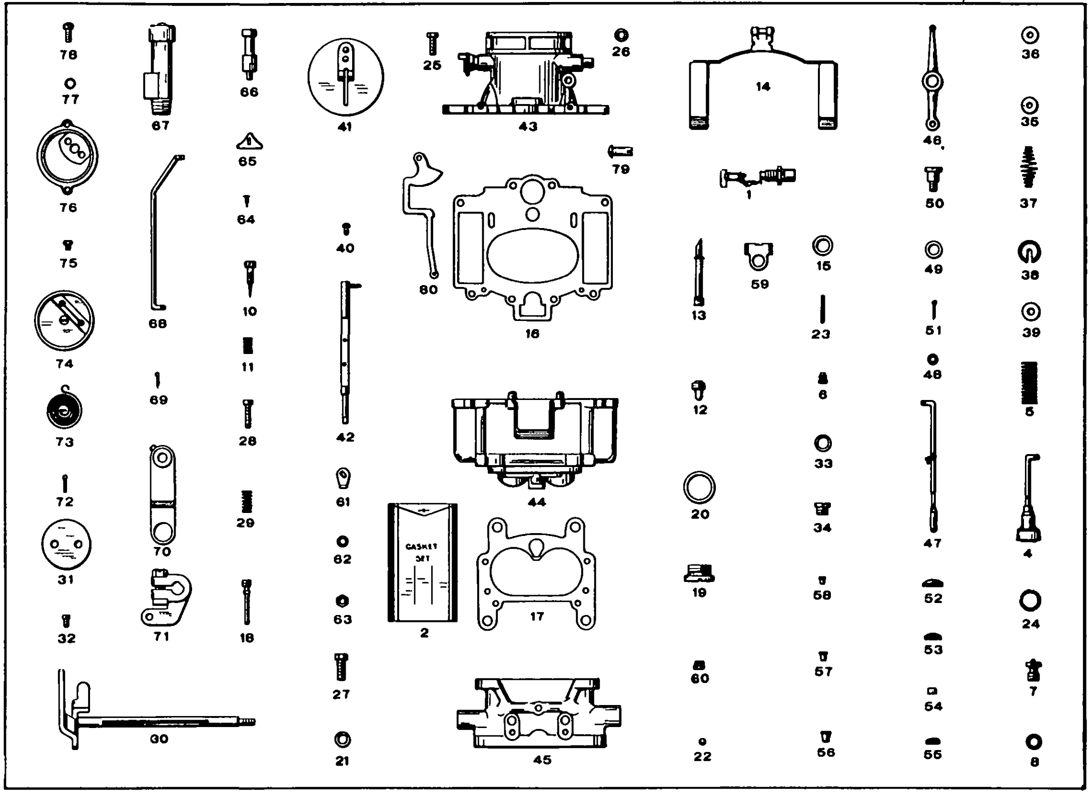
3 To adjust thermostat, reassemble case onto the air horn so that hook "H" comes into contact with pin on the lever without any tension and with choke valve "A" in wide open position The zero marking on the case will then coincide with the notch on the air horn

4 Revolve thermostat case **seventeen** notches rich as indicated by the arrow and fasten screws securely





STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No.	Part No.	Part Name
	1	P-22499	Float Needle Valve, Seat & Clip — 101 **(NOT VAR.)**
	2	J-4783-G	Complete Gasket Set
	4	P-22612	Pump Piston and Link **(Includes P-21568 Spring)**
	4-A	P-22646	Pump Piston Link and Spring (Complete)
	5	P-19458	Spring—Pump Duration
	6	P-18144	Pump Inlet Check Valve
	7	*P-19447	Power By Pass Jet No 63 **(NOT VAR.)**
	8	P-19448	Gasket - By Pass Jet
	10	P-15478	Idle Needle Valve
	11	P-18710	Spring—Idle Needle Valve
	12	**P-22660	Metering Jet .051" **(VAR.)**
	13	P-22603	Main Discharge Jet—No 28 36 **(NOT VAR.)**
	14	P-22433	Float with Lever
	15	P-2885	Gasket—Float Needle Valve Seat
	16	P-22885	Gasket—Air Horn
	17	P-22427	Gasket—Main Body
	18	*P-23110	Idle Tube
	19	P-21767	Plug—Main Discharge Jet
	20	P-22851	Gasket—Main Discharge Jet Plug
	21	P-3157	Lockwasher—Main Body Attaching Screw
	22	P-18772	Lead Ball
	23	P-22439	Pin—Fulcrum—Float Lever
	24	P-21568	Spring—Pump Piston Leather Expansion
	25	P-2475	Screw—Air Horn Attaching
	26	P-6668	Lockwasher—Air Horn Attaching Screw
	27	P-709	Screw—Main Body Attaching
	28	P-16586	Screw—Throttle Stop
	29	P 15831	Spring—Throttle Stop Screw
	30	P-22775	Throttle Lever and Stem
	31	P-22752	Throttle Valve (5°) **(NOT VAR.)**
	32	P-16716	Screw—Throttle Valve Attach
	33	P-7338	Gasket—Check Valve Plug
	34	P-19716	Plug—Check Valve
	35	P-17380	Washer—Felt
	36	P-17060	Washer—Splash—Pump Link
	37	P-22643	Spring—Packing Retainer
	38	P-22045	Washer—Cup
	39	P-22046	Washer—Spring Retainer
	40	P-22573	Screw—Choke Valve Attach
	41	P 22585	Choke Valve
	42	P-22608	Assembly Choke Stem and Pin
		P-22642	Pin—Choke Stem
	43	*P 22886	Air Horn
		P-21045	Choke Stem Bushing
		P17996	Loose Lever Bushing
		P-22550	Loose Lever
		P-22883	Vent Tube
	43-A	*P-22903	Air Horn & Valve Complete with Therm Housing
	44	P-22566	Assy—Main Body 1⅛" Venturi **No. 65** H S Bleeder **No. 65** Pump Disch Tube and **No. 40** Idle Air Bleed **(VAR).**
		P-22369	High Speed Bleed **No. 65** **(VAR.)**
		P 19430	Pump Disch Tube Wedge
		P 22651	Pump Disch Tube (Left)
		P 22650	Pump Tube (Right)
		P 8495	Expansion Plug
	45	P-22547	Throttle Body **No. 54-55** Idle Disch Hole **(VAR.)**
	46	P 22430	Pump Lever
	47	P-22620	Pump Rod
	48	P 9394	Washer - Pump Rod
	49	P 19820	Spring—Washer—Pump Lever Fulcrum Screw
	50	P-20611	Screw—Fulcrum—Pump Lever
	51	P 7170	Cotter Pin—Pump Link and Pump Rod
	52	P 20782	Plug Expansion, Vacuum Piston
	53	P 21054	Plug—Expansion Vacuum Piston Channel
	54	P-20884	Plug—Vacuum Piston Channel
	55	P 12777	Plug— Vent Tube Boss
	56	P 15459	Plug -Idle Discharge Hole ¼"
	57	P-15458	Plug—Idle Discharge No 10
	58	P-15457	Plug—Vacuum Piston Channel
	59	P-22441	Float Hanger
	60	P-6406	Plug—Fuel Level Sight
	61	P-22852	Lever—Thermostat
	62	P 15875	Lockwasher—Therm Lever Attach Nut
	63	P 16571	Nut—Therm Lever Attach
	64	P-20973	Rivet—Vacuum Piston
	65	P-22657	Cover—Vacuum Piston Link Channel
	66	P-22586	Vacuum Piston
	67	P-22879	Vent Stack
	68	P-22556	Rod—Deflooder
	69	112-S-1	Cotter Pin—Deflooder Rod
	70	P-22557	Throttle Lever—Loose—with Wire Conn & Screw
		P-506	Wire Connector Screw
	71	P 22559	Assy—Loose Lever Stop
		P 22560	Stop
		P 18300	Stop Clamp Screw
		P 18299	Stop Clamp Screw Nut
	72	P 4	Cotter Pin
	73	P-21507	Thermostat
	74	P-22936	Assy—Thermostat Unit
	74 A	P-22935	Thermostat Unit (Complete)
	75	P 21596	Screw—Thermostat Unit Attach
	76	P 21009	Housing—Thermostat Unit
	77	P-15346	Lockwasher—Housing Attach Screw
	78	P12016	Screw—Thermostat Housing Attach
	79	P-22579	Pin—Fast Idle Link Fulcrum
	80	P-22553	Link—Fast Idle Piston

NOTE—For parts marked (VAR.) size must be specified when ordering.

When servicing or ordering for the above carburetor check the following When using (old style) Air Horn ***P-22548** which does not have external float vent stack **P-22879** and internal vent tube **P 22833** it is necessary to use ***P 22658** By-Pass Jet (2—No 63 feed holes) in place of **P-19447** By Pass Jet (1—No 63 Feed Hole) ***P-22660—.53"** Metering Jet in place of **.051"**. ***P 19874** Idle Tube in place of **P-23110.** ****P-22660** Metering Jet (New Style) is identified by a groove around the nut end of the Jet replace **P-19442** Metering Jet (old style)

BENDIX PRODUCTS DIVISION
SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

Printed in U S A

STROMBERG "EE-15" CARBURETOR

STROMBERG NO A 17801 LA SALLE SYMBOL 1416709

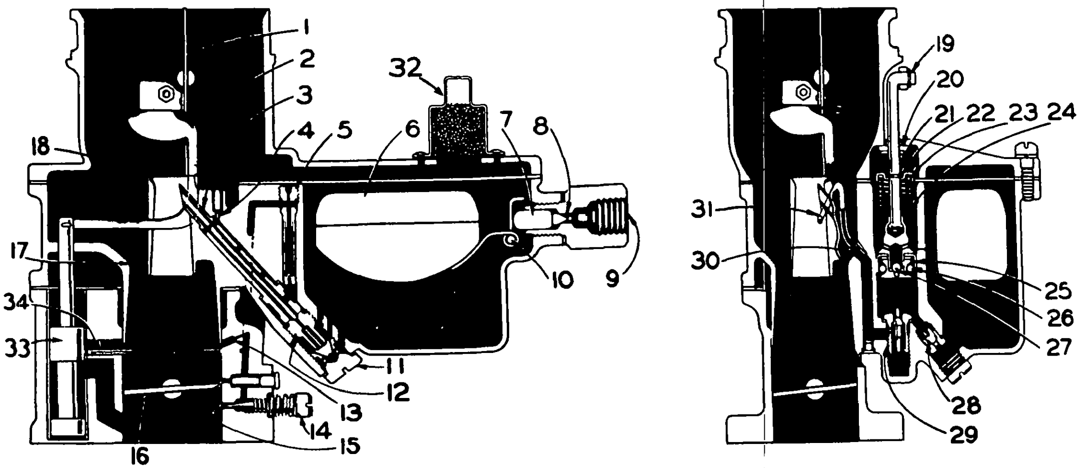
SIZE: 1" DUAL D. D. 4-HOLE FLANGE

1936 LASALLE

MODEL 36-50
3"x4¼"—8 cyl.

PARTS ILLUSTRATED

1 Choke Valve
2 Vacuum Piston Link
3 Main Discharge Jet
4 High Speed Bleeder
5 Idle Tube
6 Float
7 Float Needle Valve
8 Float Needle Valve Seat
9 Gasoline Inlet
10 Float Fulcrum Pin
11 Main Discharge Jet Plug
12 Main Metering Jet
13 Idle Air Bleeder
14 Idle Needle Valve
15 Idle Discharge Holes
16 Throttle Valve
17 Primary Venturi
18 Auxiliary Venturi
19 Pump Piston Link
20 Dust washer
21 Dust Washer Spring
22 Spring Retainer Lock
23 Spring Retainer Washer
24 Pump Duration Spring
25 Pump Piston
26 Pump Piston Expansion Spring
27 Pump Relief Valve
28 Pump Inlet Check Valve
29 Power By Pass Jet
30 Pump Discharge Nozzle Holder
31 Pump Discharge Nozzle
32 Float Chamber Vent
33 Automatic Choke Piston
34 Fast Idle Air Passage



Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **15/32"** below top surface of float chamber (without gasket) at 3 lbs pressure, (use standard depth gauge for measuring and **Tool 24733** for changing position of float to obtain correct fuel level)

MAIN METERING SYSTEM—Venturi **1-1/32"**; Main Discharge Jet **No. 32-36** P-20753 **(Tool T-24967)**; Use new P-20421 Lead Gasket, assembled on lower shoulder of main jet, High Speed Bleeder **No. 67** (in body), Main Metering Jet **.046"** P-19442 **(Tool T-24924)**; use **Tool T-5164** to remove Main Jet Plug Main Metering System controls the flow of fuel up to approximately 65 to 70 M P H

°**POWER SYSTEM**—Combination Power and Pump By-Pass Jet **No. 65** P-20467 Pump piston to rest on seat of by-pass jet (less over-travel) with throttle valve opened **9/32"** + — **1/64"** (measure with shank end of **9/32"** drill) adjust by bending pump fulcrum arm The Power Jet is brought into action at approximately 65 to 70 M P H

ACCELERATION — Pump Discharge Nozzles **No. 65** (in body), Pump capacity **9** to **13** c c per 10 fast strokes and **15** to **19** c c per 10 slow strokes Use **Tool T-24972.** Pump action takes place during acceleration period only

IDLE SYSTEM—Idle Discharge Holes **No. 54-60**; with throttle valve fully closed and **No. 60** drill in idle hole, edge of valve is located **.010"** + — **.004"** from **No. 60** drill, Idle Air Bleed **No. 50** (in throttle body) **No. 68** (in idle tube), Idle Tube **No. 55** P-21161. **Adjustment:** Adjust to smooth running, one barrel at a time, OUT to make richer and IN to make leaner Throttle at 7 to 8 M P H

VACUUM SPARK CONTROL—With throttle fully closed and **No. 58** drill in spark hole, edge of valve is located **.041"** + — **.004"** from **No. 58** drill

FLANGE GASKET—P 21990

SPECIAL TOOLS REQUIRED—Use Cadillac complete Tool Kit **SER. 361**; T-24733 Float Adjuster; T-24967 Main Discharge Jet Remover, T-24924 Main Metering Jet Wrench, T-24970 By-Pass Jet and Check Valve Tester, T-24972 Pump Capacity Burrette Gauge, T-24968 Handle, T-5164 Main Jet Plug Screw Driver

MOTOR TUNE-UP DATA

SPARK PLUGS—.025" to .030".
Clean and adjust at regular intervals.

DISTRIBUTOR—.0125" to .0175".
Breaker gap set .0125" to .0175".
Replace if necessary.

VALVES—Intake: .006".
Exhaust: .008". Engine hot.

IGNITION TIMING—Breaker contacts open for No. 1 cylinder when mark "IGA" on harmonic balancer is in line with pointer.

SERVICE RECOMMENDATION — Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

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GENERAL DESCRIPTION AND INSTRUCTIONS OF AUTOMATIC CHOKE CONTROL

In the Stromberg Model "EE-15" carburetor the automatic choke control is built completely into the carburetor. The principle of operation is the same as that used on the previous LaSalle models with the exception that the tension of the thermostat is controlled by an electric heat unit instead of using the heat of the exhaust gas. The vacuum piston used to open the choke valve, when the engine begins to fire, is also built into the body. In the design there is also incorporated a semi-manual control, by which the choke valve may be manually closed or part way opened by the operator if so desired. In the Model "EE-15" carburetor the fast idle feature which supplies fuel during cranking period and keeps the engine from stalling while warming up, is accomplished by a passage entering the throttle barrel below the throttle valve to feed the additional fuel with closed throttle. This design eliminates all external parts and adjustments used in the previous method of fast idle. Figs. 1-4 show the automatic choke control and fast idle in the various stages of operation.

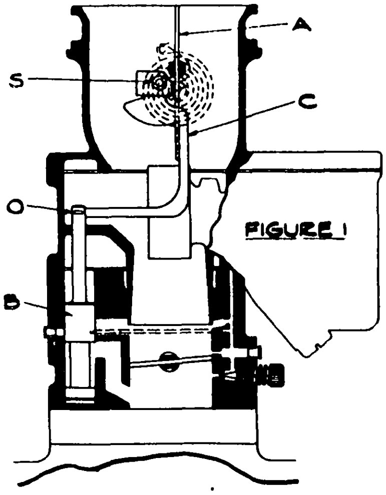


FIGURE 1

CHOKE OPEN—SLOW IDLE—ENGINE HOT

Fig. 1 shows the choke valve "A" in wide open position, which it will be when a hot motor is stopped. In this illustration the carburetor is shown at slow or curb idle, which should be adjusted by the throttle stop screw at 8 m. p. h. with a hot engine and is the only adjustment required for the slow and fast idling of the engine.

Vacuum piston "B" shown in the "lower" position, is connected to the choke valve by link "C". In addition to the piston opening the choke valve, it also controls the duration of the fast idle period. The thermostat is connected to the carburetor choke valve stem.

CAUTION—To remove air horn, proceed as follows: Remove air horn and float chamber cover screws. Raise the entire assembly so that pin "O" is brought to the gasket surface where it can be removed. When reassembling, make certain that pin is fastened securely.

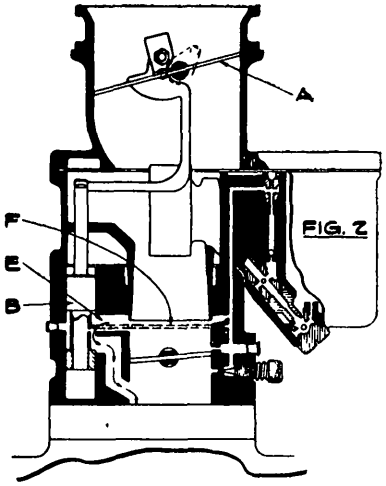


FIG. 2

CHOKE CLOSED—FAST IDLE

As the engine becomes cold, the thermostat also cools and gradually gains tension to close choke valve "A". With this movement, vacuum piston "B" is raised, opening fast idle passage "E" so that air is drawn through "E" during the fast idle period, following the path of the arrow. The suction of the air draws fuel from passage "F" to supply the additional fuel for the fast idle. During the cranking of the engine the choke valve remains in the position shown in Fig. 2.

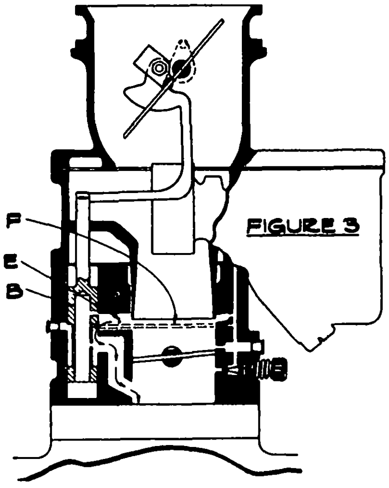


FIGURE 3

CHOKE PARTIALLY OPEN—ENGINE FIRING—FAST IDLE

As the engine begins to fire and a manifold vacuum is created, vacuum piston "B" is pulled down to the position where the upper side hole in the piston is exposed to air taken through passage "E", stopping the pull on the piston. With this action the choke valve opens slightly to admit sufficient air for running. The air flowing through passage "E" draws fuel from passage "F" for the fast idle mixture.

ADJUSTING: The pull of the vacuum piston should be set in accordance with the choke valve opening. Remove drive plug from channel "F" and insert shank end of new No. 34 drill (.111"). The choke valve should then be opened until the piston comes to rest on the No. 34 drill. In this position the choke valve should be opened so that a 9/32" drill can be placed between the valve and the air horn. Change of position can be made by loosening the nut between the lever and the piston link.

ENGINE WARM—SLOW IDLE

The choke valve in the carburetor being off center continues to open by the force of the inrushing air which works against the tension of the thermostat until the thermostat absorbs sufficient heat so that it will not offer any resistance As the choke valve "A" opens, it allows the vacuum piston "B" to lower until the piston closes passage "E" cutting off the supply of air and gas used for fast idle Fuel is then only taken through the regular idle discharge holes "N"

ADJUSTING THERMOSTAT

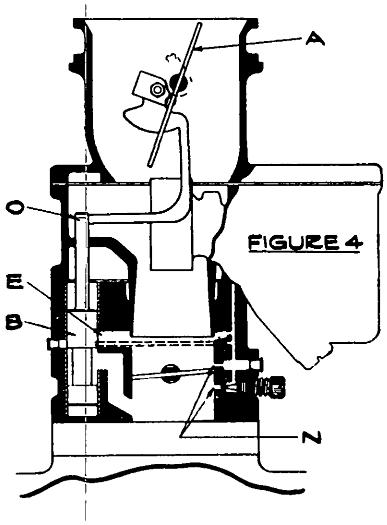
To adjust thermostat refer to illustrations below

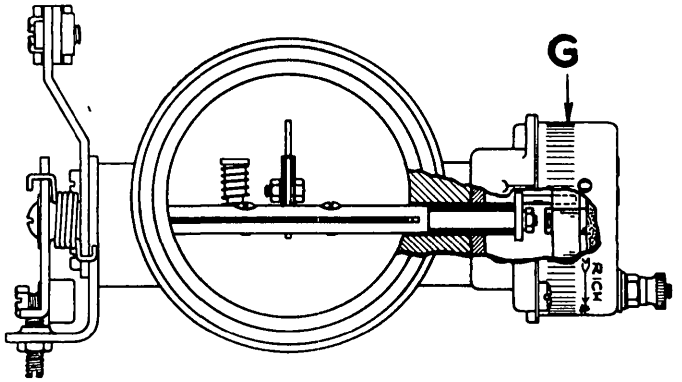
1 Remove thermostat case "G', allowing thermostat "D" to cool or warm until it has reached the temperature of 70° THIS IS VERY IMPORTANT

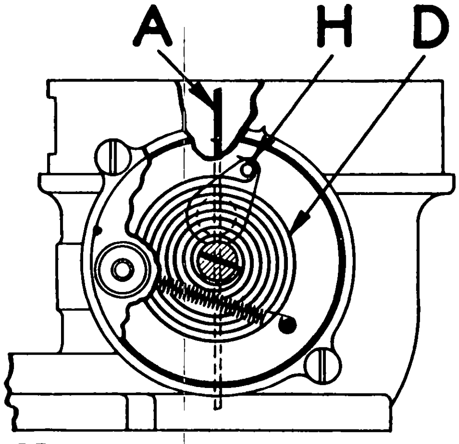
2. When the thermostat reaches 70°, the inside of hook "H' of the thermostat should coincide with the "zero" marking on the thermostat case which is the original setting made at the factory When installing a new thermostat or other new parts, check the zero location very carefully at 70° temperature and change the location if necessary If it is impossible for the thermostat to reach 70° you can provide for the difference by allowing one graduation on thermostat case for every 5° variation in temperature of the thermostat

3 To adjust thermostat, reassemble case onto the air horn so that hook "H" comes into contact with pin on the lever without any tension and with choke valve "A" in wide open position The zero marking on the case will then coincide with the notch on the air horn

4 Revolve thermostat case **seventeen** notches rich as indicated by the arrow and fasten screws securely







MANUAL CHOKE CONTROL

The choke may also be operated manually independently of the automatic system for the operator who desires to do so In the three illustrations A B and C are shown various positions of the mannual choke In the normal or middle position the control is illustrated in Fig A with the choke button on the instrument panel flush with the throttle button and full action of the automatic choke control is permitted The choke button is held in this position by a light pressure snap spring As the choke button on the instrument panel is pulled out its entire length of travel, the manual control takes the position shown in Fig B In this case the carburetor is choked manually, independently of the automatic control When the choke button is pushed in beyond its normal position, past the snap spring the automatic control is prevented from closing the choke valve—this is illustrated in Fig C

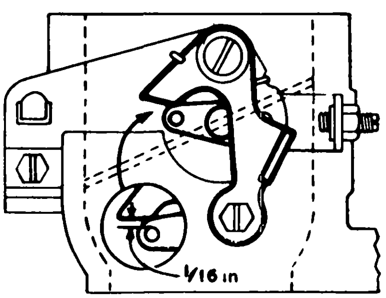


FIG. A
Position for operation of automatic choke control.

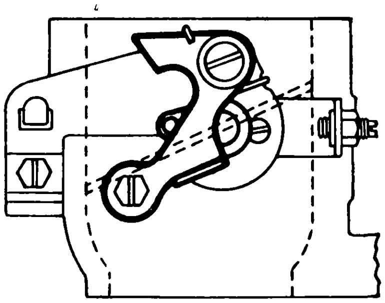


FIG. B
Manual Choke Position.

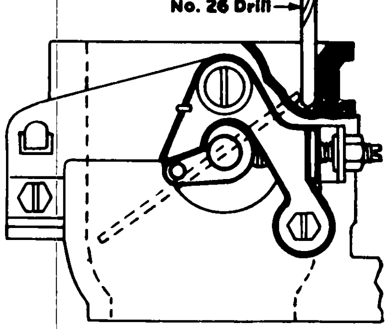
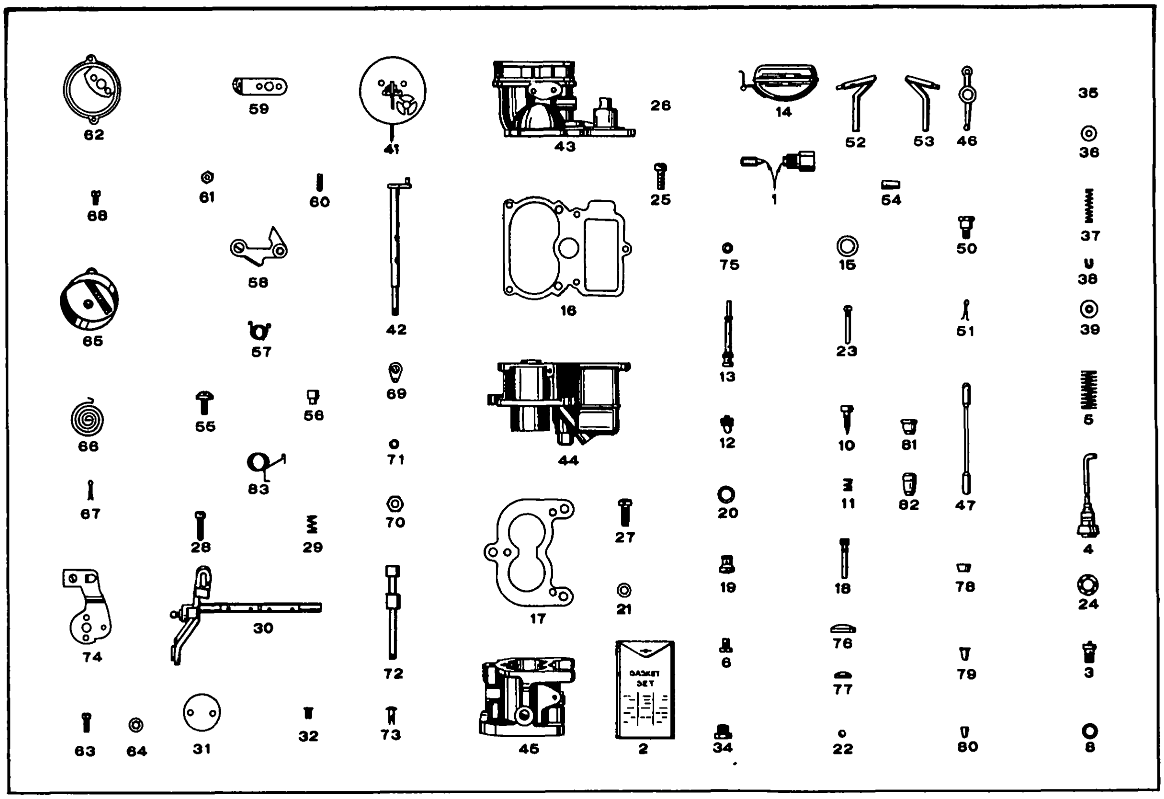


FIG. C.
Choke Valve Held Partially Closed.

MANUAL CONTROL ADJUSTMENT

To adjust the manual control have the control lever against the stop screw In this position the choke valve should be open sufficiently to allow a No 26 drill to be placed between the upper edge of the choke valve and the air horn If necessary, adjust top screw to provide this opening of the choke valve The choke button on the dash should also be in normal position flush with the throttle button when the choke control on the carburetor is in the position shown in Fig A and there should be a clearance of approximately $\frac{1}{16}$" between the pin on the choke shaft lever and the short end of the "V" shaped lever to which the choke button wire is attached



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No.	Part No.	Part Name
	1	P-22487	Float Needle Valve & Seat—.113" (NOT VAR.)
	2	J-4540-G	Complete Gasket Set
	3	P-20467	Power By Pass Jet No 65 (NOT VAR.)
	4	P-20775	Pump Piston & Link (Includes P-16960)
	4-A	P-20754	Pump Piston, Link & Spring (Complete)
	5	P-19526	Spring—Pump Duration
	6	P-18144	Check Valve—Pump Inlet
	8	P-19448	Gasket—By-Pass Jet
	10	P-15478	Idle Needle Valve
	11	P-15481	Spring—Idle Needle Valve
	12	P-19442	Metering Jet .046" (VAR.)
	13	P-20753	Main Disch Jet No 32-36 (NOT VAR.)
	14	P-19825	Float with Lever
	15	P-10666	Gasket—Float Needle Valve Seat
	16	P-19428	Gasket—Air Horn
	17	P-23178	Gasket—Main Body
	18	P-21161	Idle Tube
	19	P-20447	Plug—Main Disch Jet
	20	P-7338	Gasket—Main Disch Jet Plug
	21	P-3157	Lockwasher—Main Body Attach Screw
	22	P-18772	Lead Ball 3/16'
	23	P-18125	Screw—Fulcrum—Float Lever
	24	P-16960	Spring—Pump Piston Leather Expansion
	25	P 3199	Screw—Air Horn Attach
	26	P-1791	Lockwasher—Air Horn Attach Screw
	27	P-709	Screw—Main Body Attach
	28	P 21715	Screw—Throttle Stop
	29	P-15831	Spring—Throttle Stop Screw
	30	P-20719	Throttle Lever & Stem
		P-19509	Ball Joint Connector
	31	P-20720	Throttle Valve (5°) (NOT VAR.)
	32	P-4522	Screw—Throttle Valve Attach
	34	P-19716	Plug—Check Valve
	35	P-17380	Washer—Felt
	36	P-17060	Washer—Splash—Pump Link
	37	P-19488	Spring—Felt Washer Retainer
	38	P-22045	Washer—Horseshoe
	39	P-22046	Washer—Spring Retainer
	41	P-21048	Assy—Choke Valve
		P-24547	Choke Valve with Bracket & Poppet (Complete)
		P-20760	Vac Piston Link Lever
		P-20882	Vac Piston Link Lever Fulcrum Screw
		P-9283	Vac Piston Link Lever Fulcrum Screw Nut
		P-20883	Vac Piston Link Lever Fulcrum Screw Nut
	42	P-21042	Choke Stem & Lever
	43	P-21685	Assy —Air Horn
		P-21045	Choke Stem Bushing (Right)
		P-21044	Choke Stem Bushing (Left)
		P-21154	Vent Hole Cover
		P-21700	Lead Ball—Pump Lever Boss
		P-21690	Float Chamber Vent
		P-21692	Copper Wool Packing (Vent)
		P-21691	Float Chamber Vent Gasket
		P-288	Float Chamber Vent Strainer
		P-9802	Float Chamber Vent Attach Rivet
	43-A	P-21686	Air Horn & Valve (Complete with Thermostat Housing)
	44	P-21021	Assy—Main Body **1-1/32"** Vent **No. 67** H S Bleeder **No. 65** Pump Disch Tube **(VAR.)**
	45	P-21732	Assy —Throttle Body **No. 54-60** Idle Disch Holes, **No. 58** Spark Hole, **No. 50** Idle Air Bleed **(VAR.)**
		P-12789	Stop Block
	46	P-19427	Pump Lever
	47	P 19420	Pump Rod
	50	P-19433	Screw—Pump Lever Fulcrum
	51	P-7170	Cotter Pin—Pump Lever & Link
	52	P-20435	Tube—Pump Disch (Right) No 65 (NOT VAR.)
	53	P-20436	Tube—Pump Disch (Left) No 65 (NOT VAR.)
	54	P-19430	Wedge—Pump Disch Tube
	55	P-17059	Screw—Choke Lever Fulcrum
	56	P-17058	Bushing—Choke Lever Fulcrum
	57	P-17132	Spring—Choke Lever Return
	58	P-21046	Choke— Lever with Wire Connector Screw
		P-12867	Wire Connector Screw
	59	P-21003	Bracket—Choke Lever Stop
	60	P-21043	Screw—Choke Lever Stop Bracket Set
	61	P-16639	Nut—Choke Lever Stop Bracket Set Screw
	62	P-21009 A	Housing— Thermostat
	63	P-12016	Screw— Thermostat Housing Attach
	64	P-15346	Lockwasher—Thermostat Housing Attach Screw
	65	P-21022	Assy —Thermostat Unit
	66	P-20718	Thermostat
	67	P-4	Cotter Pin—Thermostat
	68	P-21596	Screw—Thermostat Unit Attach
	69	P-22852	Lever—Thermostat
	70	P-16571	Nut—Thermostat Lever
	71	P-15875	Lockwasher— Thermostat Lever Nut
	72	P-21057	Piston —Vacuum
	73	P-20973	Rivet—Vacuum Piston
	74	P 17067	Assy —Choke Tube Holder
		P-17051	Tube Holder
		P-11561	Tube Holder Clamp
		P-12868	Tube Holder Clamp Screw
		P-8806	Tube Holder Clamp Screw Nut
	75	P-20421	Gasket—Main Disch Jet (Lead)
	76	P-20782	Plug—Vac Piston Channel 17/32
	77	P-21054	Plug—Vac Piston Channel 17/64
	78	P 20884	Plug—Vac Piston Channel 1/4"
	79	P-15458	Plug—Idle Disch Holes No 10
	80	P-15457	Plug—Vac Piston Channel No 6
	81	P 20454	Plug—Vac Piston Channel 17/64"
	82	P-20750	Idle Air Reducer No 50 (Thr Body) (NOT VAR.)
	83	P-19490	Spring—Pump Lever

Note When replacing pump lever, assemble with ball joint toward you (hold carburetor with float chamber toward you)

NOTE—For parts marked (VAR.) size must be specified when ordering.

STROMBERG "EE-15" CARBURETOR

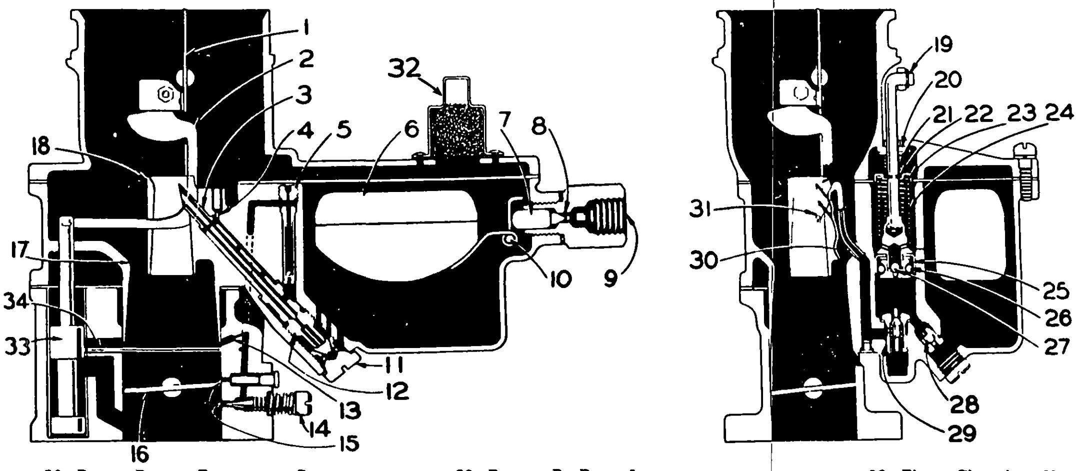
STROMBERG NO. A-17771; LA SALLE SYMBOL 1412502

SIZE: 1" DUAL D. D. 4-HOLE FLANGE

1935
LASALLE

MODEL
"350-2"
3"x4¼"—8 cyl.

PARTS ILLUSTRATED



1 Choke Valve
2 Vacuum Piston Link
3 Main Discharge Jet
4 High Speed Bleeder
5 Idle Tube
6 Float
7 Float Needle Valve
8 Float Needle Valve Seat
9 Gasoline Inlet
10 Float Fulcrum Pin
11 Main Discharge Jet Plug
12 Main Metering Jet
13 Idle Air Bleeder
14 Idle Needle Valve
15 Idle Discharge Holes
16 Throttle Valve
17 Primary Venturi
18 Auxiliary Venturi
19 Pump Piston Link
20 Dust washer
21 Dust Washer Spring
22 Spring Retainer Lock
23 Spring Retainer Washer
24 Pump Duration Spring
25 Pump Piston
26 Pump Piston Expansion Spring
27 Pump Relief Valve
28 Pump Inlet Check Valve
29 Power By-Pass Jet
30 Pump Discharge Nozzle Holder
31 Pump Discharge Nozzle
32 Float Chamber Vent
33 Automatic Choke Piston
34 Fast Idle Air Passage

Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **15/32"** below top surface of float chamber (without gasket) at 3 lbs. pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level.)

MAIN METERING SYSTEM—Venturi **1-1/32"**; Main Discharge Jet **No. 32-36** P-20753 **(Tool T-24967).** Use new P-20421 Lead Gasket Assembled on lower shoulder of main jet. High Speed Bleeder **No. 67** (in body); Main Metering Jet **.050"** P-19442 **(Tool T-24924).** Use **Tool T-5164** to remove Main Jet Plug; Main Metering System controls the flow of fuel up to approximately 65 to 70 M. P. H.

POWER SYSTEM—Combination Power and Pump By-Pass Jet **No. 65** P-20467. Pump piston to rest on seat of by-pass jet (less over-travel) with throttle valve opened **21/64"** (measure with shank end of **21/64"** drill) adjust by bending pump fulcrum arm at ball joint. The Power Jet is brought into action at approximately 65 to 70 M. P. H.

ACCELERATION—Pump Discharge Nozzles **No. 65** (in body); Pump capacity **9** to **13** c.c. per 10 fast strokes and **15** to **19** c.c. per 10 slow strokes. Use **Tool T-24972.** Pump action takes place during acceleration period only.

IDLE SYSTEM—Idle Discharge Holes **No. 54-60;** with throttle valve fully closed and **No. 60** drill in idle hole, edge of valve is located **.010" + — .004"** from **No. 60** drill; Idle Air Bleed **No. 50** (in throttle body) **No. 68** (in idle tube); Idle Tube **No. 55** P-21161; **Adjustment:** Adjust to smooth running, one barrel at a time, OUT to make richer and IN to make leaner. Throttle at 7 to 8 M. P. H.

FLANGE GASKET—P-21990.

SPECIAL TOOLS REQUIRED—Use Cadillac complete Tool Kit **SER. 361;** T-24733 Float Adjuster; T-24967 Main Discharge Jet Remover; T-24924 Main Metering Jet Wrench; T-24970 By-Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burrette Gauge; T-24968 Handle; T-5164 Main Jet Plug Screw Driver.

MOTOR TUNE-UP DATA

SPARK PLUGS—.025" to .027".
Clean and adjust at regular intervals.

DISTRIBUTOR—.018" to .024".
Breaker gap set .018" to .024".
Replace if necessary.

VALVES—Intake: .006".
Exhaust: .009". Engine hot.

IGNITION TIMING—Breaker contacts open for No. 1 cylinder when mark on harmonic balancer (8° or .0255" piston travel before top dead center) is in line with pointer on chain case.

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

GENERAL DESCRIPTION AND INSTRUCTIONS OF AUTOMATIC CHOKE CONTROL

In the Stromberg Model "EE-15" carburetor the automatic choke control is built completely into the carburetor The principle of operation is the same as that used on the previous LaSalle models with the exception that the tension of the thermostat is controlled by an electric heat unit instead of using the heat of the exhaust gas The vacuum piston used to open the choke valve when the engine begins to fire, is also built into the body In the design there is also incorporated a semi manual control, by which the choke valve may be manually closed or part way opened by the operator if so desired In the Model "EE 15" carburetor the fast idle feature which supplies fuel during cranking period and keeps the engine from stalling while warming up, is accomplished by *a passage* entering the throttle barrel below the throttle valve to feed the additional fuel with closed throttle This design eliminates all external parts and adjustments used in the previous method of fast idle Figs 1-4 show the automatic choke control and fast idle in the various stages of operation.

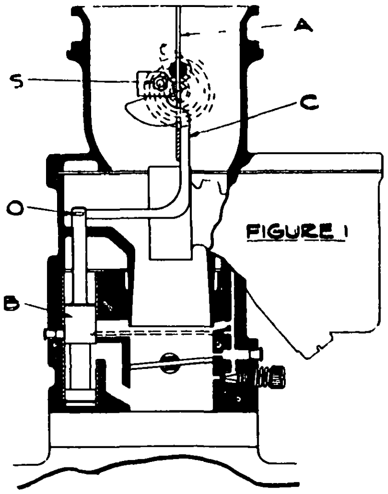


FIGURE 1

CHOKE OPEN—SLOW IDLE—ENGINE HOT

Fig 1 shows the choke valve A' in wide open position which it will be when a hot motor is stopped In this illustration the carburetor is shown at slow or curb idle which should be adjusted by the throttle stop screw at 8 m p h with a hot engine and is the only adjustment required for the slow and fast idling of the engine

Vacuum piston B shown in the lower position is connected to the choke valve by link C In addition to the piston opening the choke valve it also controls the duration of the fast idle period The thermostat is connected to the carburetor choke valve stem

CAUTION—To remove air horn, proceed as follows Remove air horn and float chamber cover screws Raise the entire assembly so that pin "O" is brought to the gasket surface where it can be removed When reassembling make certain that pin is fastened securely

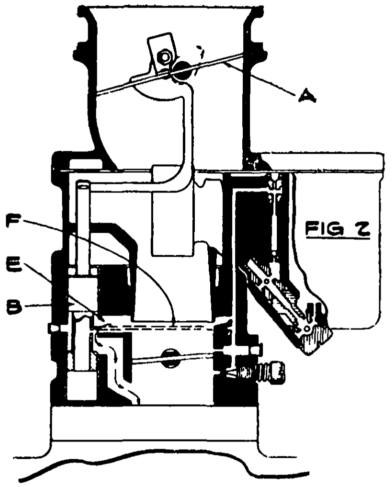


FIG 2

CHOKE CLOSED—FAST IDLE

As the engine becomes cold the thermostat also cools and gradually gains tension to close choke valve A With this movement vacuum piston B is raised opening fast idle passage E so that air is drawn through E during the fast idle period following the path of the arrow The suction of the air draws fuel from passage 'F" to supply the additional fuel for the fast idle During the cranking of the engine the choke valve remains in the position shown in Fig 2

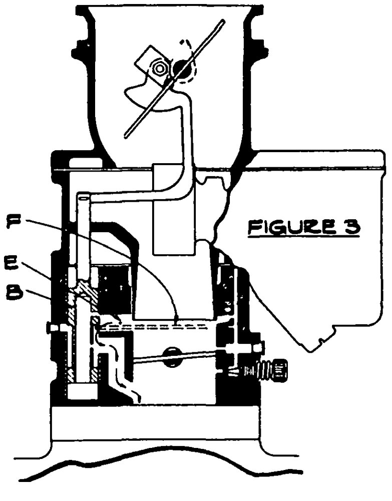


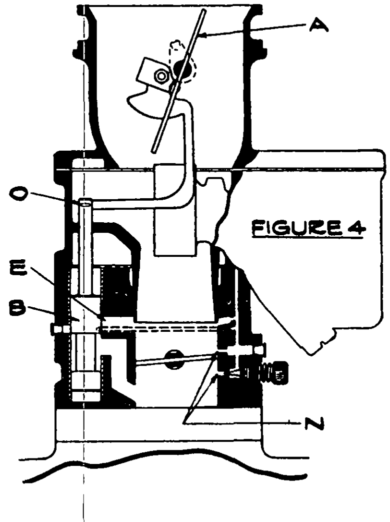
FIGURE 3

CHOKE PARTIALLY OPEN—ENGINE FIRING—FAST IDLE

As the engine begins to fire and a manifold vacuum is created vacuum piston 'B' is pulled down to the position where the upper side hole in the piston is exposed to air taken through passage 'E stopping the pull on the piston With this action the choke valve opens slightly to admit sufficient air for running The air flowing through passage "E' draws fuel from passage F for the fast idle mixture

ADJUSTING The pull of the vacuum piston should be set in accordance with the choke valve opening Remove drive plug from channel 'F' and insert shank end of new No 34 drill (111") The choke valve should then be opened until the piston comes to rest on the No 34 drill In this position the choke valve should be opened so that a 9/32 drill can be placed between the valve and the air horn Change of position can be made by loosening the nut between the lever and the piston link

ENGINE WARM—SLOW IDLE



The choke valve in the carburetor being off center continues to open by the force of the inrushing air, which works against the tension of the thermostat until the thermostat absorbs sufficient heat so that it will not offer any resistance. As the choke valve "A" opens, it allows the vacuum piston "B" to lower until the piston closes passage "E" cutting off the supply of air and gas used for fast idle. Fuel is then only taken through the regular idle discharge holes "N".

ADJUSTING THERMOSTAT

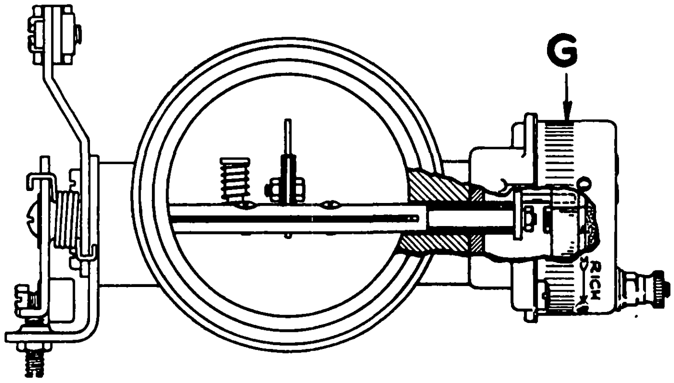
To adjust thermostat refer to illustrations below.

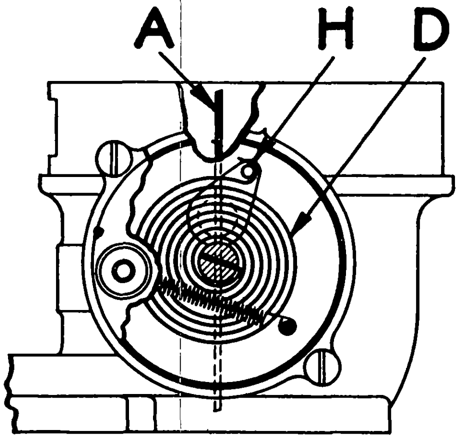
1. Remove thermostat case "G", allowing thermostat "D" to cool or warm until it has reached the temperature of 70°. THIS IS VERY IMPORTANT.

2. When the thermostat reaches 70°, the inside of hook "H" of the thermostat should coincide with the "zero" marking on the thermostat case, which is the original setting made at the factory. When installing a new thermostat or other new parts, check the zero location very carefully at 70° temperature and change the location if necessary. If it is impossible for the thermostat to reach 70°, you can provide for the difference by allowing one graduation on thermostat case for every 5° variation in temperature of the thermostat.

3. To adjust thermostat, reassemble case onto the air horn so that hook "H" comes into contact with pin on the lever without any tension and with choke valve "A" in wide open position. The zero marking on the case will then coincide with the notch on the air horn.

4. Revolve thermostat case **seventeen** notches rich as indicated by the arrow and fasten screws securely.





MANUAL CHOKE CONTROL

The choke may also be operated manually, independently of the automatic system for the operator who desires to do so. In the three illustrations, A, B and C, are shown various positions of the mannual choke. In the normal or middle position the control is illustrated in Fig. A with the choke button on the instrument panel flush with the throttle button and full action of the automatic choke control is permitted. The choke button is held in this position by a light pressure snap spring. As the choke button on the instrument panel is pulled out its entire length of travel, the manual control takes the position shown in Fig. B. In this case the carburetor is choked manually, independently of the automatic control. When the choke button is pushed in beyond its normal position, past the snap spring, the automatic control is prevented from closing the choke valve—this is illustrated in Fig. C.

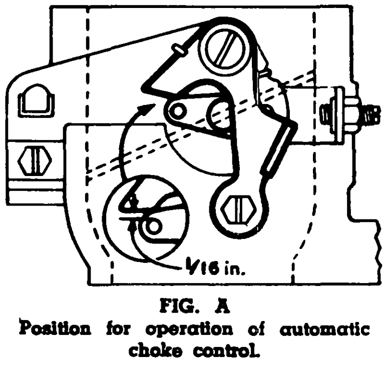


FIG. A
Position for operation of automatic choke control.

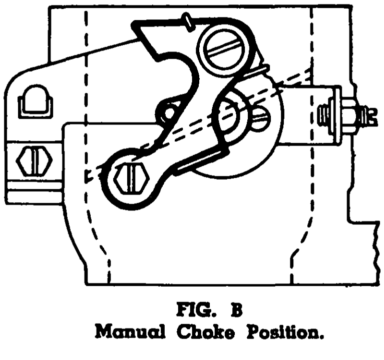


FIG. B
Manual Choke Position.

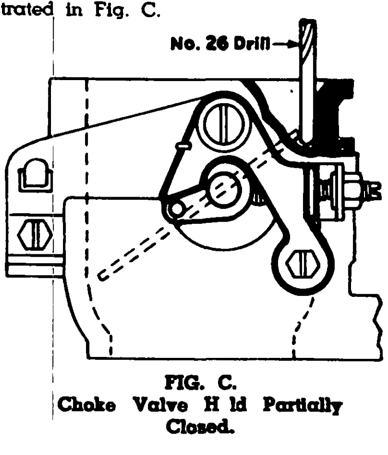
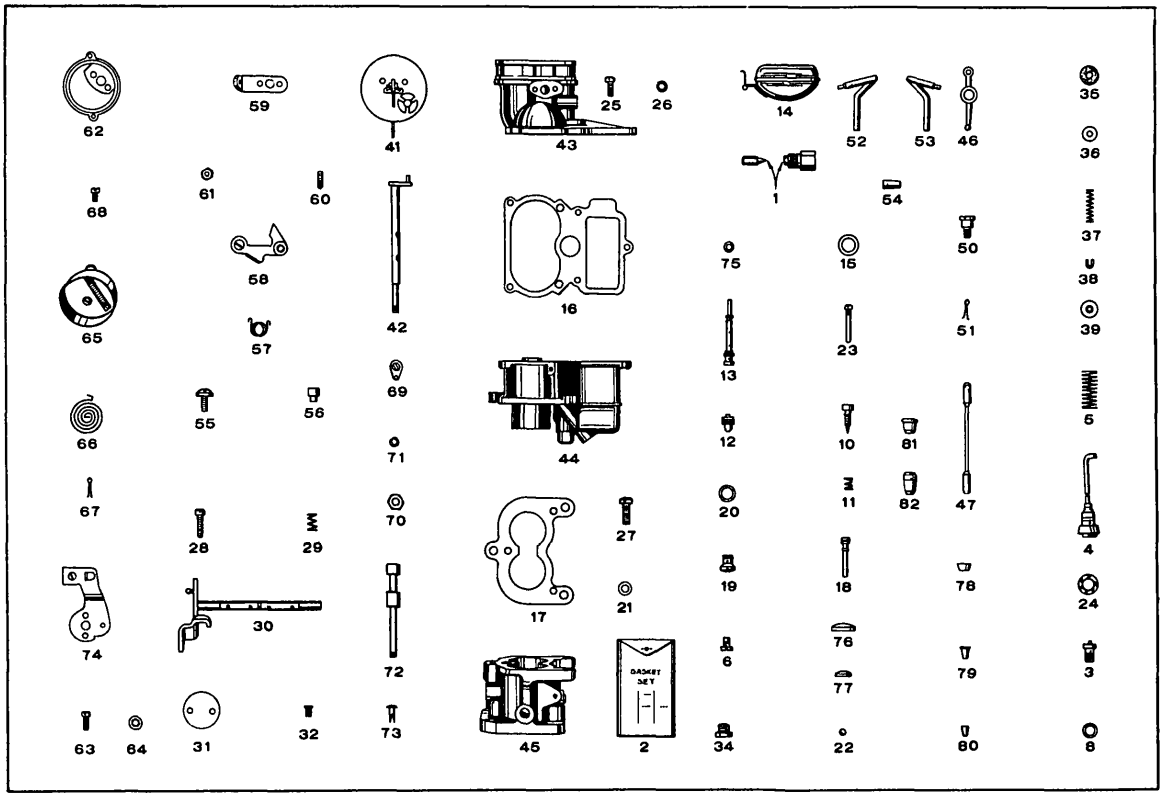


FIG. C.
Choke Valve Held Partially Closed.

MANUAL CONTROL ADJUSTMENT

To adjust the manual control have the control lever against the stop screw. In this position the choke valve should be open sufficiently to allow a No. 26 drill to be placed between the upper edge of the choke valve and the air horn. If necessary, adjust top screw to provide this opening of the choke valve. The choke button on the dash should also be in normal position flush with the throttle button when the choke control on the carburetor is in the position shown in Fig. A and there should be a clearance of approximately $\frac{1}{16}$" between the pin on the choke shaft lever and the short end of the "V" shaped lever to which the choke button wire is attached.



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No.	Part No.	Part Name
	1	P 19867	Float Needle Valve & Seat— 113 **(NOT VAR.)**
	2	J 4540 G	Complete Gasket Set
	3	P 20467	Power By Pass Jet No 65 **(NOT VAR.)**
	4	P 20775	Pump Piston and Link **(Includes P 16960)**
	4 A	P 20754	Pump Piston Link and Spring (Complete)
	5	P 19526	Spring—Pump Duration
	6	P 18144	Check Valve—Pump Inlet
	8	P 19448	Gasket—Power By Pass Jet
	10	P 17402	Idle Needle Valve
	11	P 15481	Spring -Idle Needle Valve
	12	P 19442	Metering Jet— **050"** **(VAR)**
	13	P 20753	Main Disch Jet No 32 36 **(NOT VAR)**
	14	P 19825	Float with Lever
	15	P 10666	Gasket Float Needle Valve Seat
	16	P 19428	Gasket Air Horn
	17	P 23178	Gasket Main Body
	18	P 21161	Idle Tube
	19	P 20447	Plug Main Disch Jet
	20	P 7338	Gasket—Main Disch Jet Plug and Check Valve Plug
	21	P 3157	Lockwasher—Main Body Attach Screw
	22	P 18772	Lead Ball
	23	P 18125	Screw Fulcrum—Float Lever
	24	P 16960	Spring—Pump Piston Leather Expansion
	25	P 3199	Screw—Air Horn Attach
	26	P 1791	Lockwasher—Air Horn Attach Screw
	27	P 709	Screw— Main Body Attach
	28	P 15456	Screw Throttle Stop
	29	P 15831	Spring Throttle Stop Screw
	30	P 21016	Throttle Lever Stem
		P 19509	Ball Joint Connector
	31	P 20720	Throttle Valve (5°) **(NOT VAR)**
	32	P 4522	Screw Throttle Valve and Choke Valve Attach
	34	P 19716	Plug Check Valve
	35	P 17380	Washer Felt
	36	P 17060	Washer Splash -Pump Link
	37	P 19488	Spring Packing Retainer
	38	P 22045	Washer Horseshoe
	39	P 22046	Washer Spring Retainer
	41	P 21048	Assy Choke Valve
		P 20760	Vac Piston Lever
		P 20882	Vac Piston Lever Fulcrum Screw
		P 9283	Vac Piston Lever Fulcrum Screw Nut
		P 20883	Vac Piston Lever Fulcrum Screw Nut Lock washer
		P 24547	Choke Valve and Bracket
	42	P 21042	Choke Stem and Lever
	43	P 21049	Air Horn
		P 21045	Bushing (Choke Stem Right)
		P 21044	Bushing (Choke Stem Left)
		P 20608	Vent
	43 A	P 21015	Assy Air Horn and Valve
	44	P 21021	Assy —Main Body **1 1/32"** Venturi **No. 67** H S Bleeder **No. 65** Pump Disch Tubes **(VAR)**
	45	P 22062	Throttle Body **No. 54 60** Idle Disch Holes, **No. 50** Idle Air Bleed **(VAR)**
	46	P 19533	Pump Lever
	47	P 19420	Pump Rod
	*50	*P 20611	Screw—Pump Lever Fulcrum
	51	P 7170	Cotter Pin—Pump Lever and Link
	52	P 20435	Tube—Pump Disch (Right) No 65 **(NOT VAR)**
	53	P 20436	Tube—Pump Disch (Left) No 65 **(NOT VAR)**
	54	P 19430	Wedge—Pump Disch Tube
	55	P 17059	Screw—Choke Lever Fulcrum
	56	P 17058	Bushing—Choke Lever
	57	P 17132	Spring—Choke Lever Return
	58	P 21046	Choke Lever with Wire Connector and Screw
		P 12867	Wire Connector Screw
	59	P 21003	Bracket—Choke Lever Stop
	60	P 21043	Screw—Choke Lever Stop
	61	P 16639	Nut—Choke Lever Stop Screw
	62	P 21009 A	Housing Thermostat Unit
	63	P 12016	Screw -Thermostat Unit Housing Attach
	64	P 15346	Lockwasher- Thermostat Unit Housing Attach Screw
	65	P 21022	Assy —Thermostat Unit
	66	P 20718	Thermostat
	67	P 4	Cotter Pin— Thermostat
	68	P 21596	Screw—Thermostat Unit Attach
	69	P 22852	Lever—Thermostat
	70	P 16571	Nut -Thermostat Lever
	71	P 15875	Lockwasher- Thermostat Lever Nut
	72	P 21057	Piston Vacuum
	73	P 20973	Rivet Vacuum Piston
	74	P 17067	Assy — Choke Tube Holder
		P 17051	Tube Holder
		P 11561	Tube Holder Clamp
		P 12868	Tube Holder Clamp Screw
		P 8806	Tube Holder Clamp Screw Nut
	75	P 20421	Gasket—Main Disch Jet (Lead)
	76	P 20782	Plug— Vac Piston Channel—17/32
	77	P 21054	Plug—Vac Piston Channel—17/64
	78	P 20884	Plug -Vac Piston Channel —1/4
	79	P 15458	Plug -Idle Disch Holes No 10
	80	P 15457	Plug Vac Piston Channel No 6
	81	P 20454	Plug—Vac Piston Channel 17/64
	82	P 20750	Reducer -Idle Air No 50' in Throttle Body **(NOT VAR)**

NOTE—For parts marked (VAR) size must be specified when ordering

*** When Servicing or Ordering Parts Note·**

P 20611 Pump Lever Fulcrum Screw (Left Hand Thread)
P 19433 Pump Lever Fulcrum Screw (Right Hand Thread)

BENDIX PRODUCTS DIVISION
SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

Printed in U S A

STROMBERG "EE-1" CARBURETOR

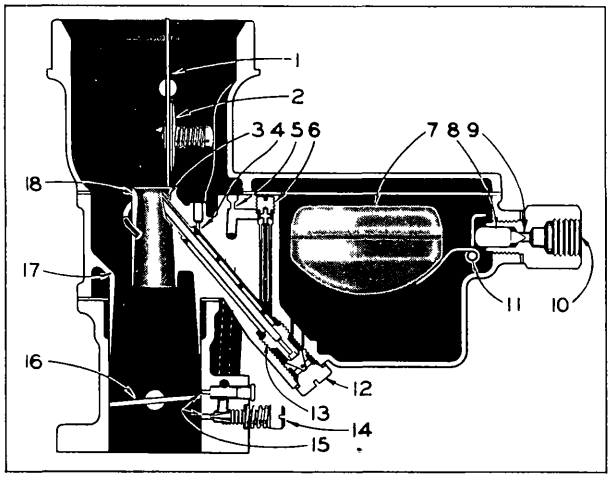
1938
LINCOLN
MODEL
"86-H"
2¾"x3¾"—12 cyl.

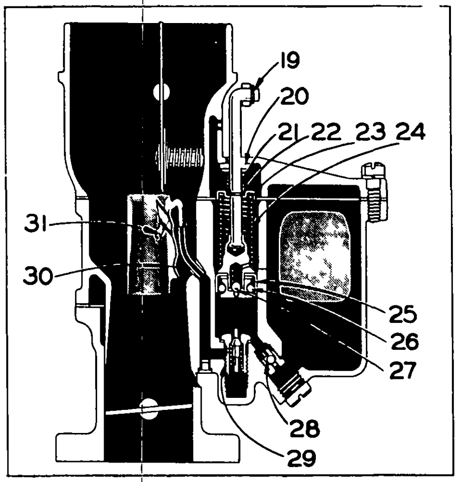
STROMBERG NO. A 18411 LINCOLN SYMBOL 86H 9510 A1

SIZE: 1" DUAL D. D. 3-HOLE FLANGE **REPLACE WITH EE 1 EQPT. J 5465**

PARTS ILLUSTRATED

1 Choke Valve
2 Poppet Valve
3 Main Discharge Jet
4 High Speed Bleeder
5 Idle Air Bleeder
6 Idle Tube
7 Float
8 Float Needle Valve
9 Float Needle Valve Seat
10 Gasoline Inlet
11 Float Fulcrum Pin
12 Main Discharge Jet Plug
13 Main Metering Jet
14 Idle Needle Valve
15 Idle Discharge Holes
16 Throttle Valve
17 Primary Venturi
18 Auxiliary Venturi
19 Pump Link
20 Dust Washer
21 Dust Washer Spring
22 Retainer Washer Lock
23 Duration Spring Retainer Washer
24 Pump Duration Spring
25 Pump Piston
26 Pump Piston Expansion Spring
27 Pump Relief Valve
28 Pump Inlet Check Valve
29 Power By Pass Jet
30 Pump Discharge Nozzle Holder
31 Pump Discharge





Note—Specifications below are for latest production, previous major changes listed on Parts Pag .

FUEL LEVEL—Measure **15/32"** below top surface of float chamber (without gasket) at 3 lbs pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level)

MAIN METERING SYSTEM—Venturi **31/32"**; Main Discharge Jet **No. 32-36** P-21317 **(Tool T-24967)**; High Speed Bleeder **No. 65** (in body), Main Metering Jet **.046"** P-19442 **(Tool T-24924)**; use **Tool T-5164** Screw Driver for removing Main Jet Plug Main Metering System controls the flow of fuel up to approximately 65 to 70 M P H

POWER SYSTEM—Combination Power and Pump By-Pass Jet **No. 60** P-20752 The Power Jet is brought into action at approximately 65 to 70 M P H Pump piston to rest on seat of by-pass jet (less over travel) with throttle valve opened **19/64"** + — **1/64"** (maximum setting) (measure with shank end of **19/64"** drill) bend pump lever fulcrum arm to obtain correct setting

ACCELERATION—Pump Discharge Nozzles **No. 60** (in main body), Pump capacity **17** to **21** c c with pump rod link set in maximum setting Use **Tool T-24972.** Pump action takes place during acceleration period only

IDLE SYSTEM—Idle Discharge holes **Nos. 56-60.** With throttle valve fully closed and **No. 60** drill in idle hole edge of valve is located **.030"**+ — **.004"** from **No. 60** drill, Idle Air Bleed **No. 36** (in main body), Idle Tube **No. 70** P-19424 **Adjustment:** Adjust to smooth running, one barrel at a time, OUT to make richer and IN to make leaner, throttle at 7 to 8 M P H

FLANGE GASKET—P-20466

SPECIAL TOOLS REQUIRED—T-24733 Float Adjuster Wrench, T-24967 Main Discharge Jet Remover, T 24924 Main Metering Jet Wrench, T 24970 By-Pass Jet and Check Valve Tester, T-24972 Pump Capacity Burrette Gauge, T-24968 Handle, T-5164 Main Jet Plug Screw Driver

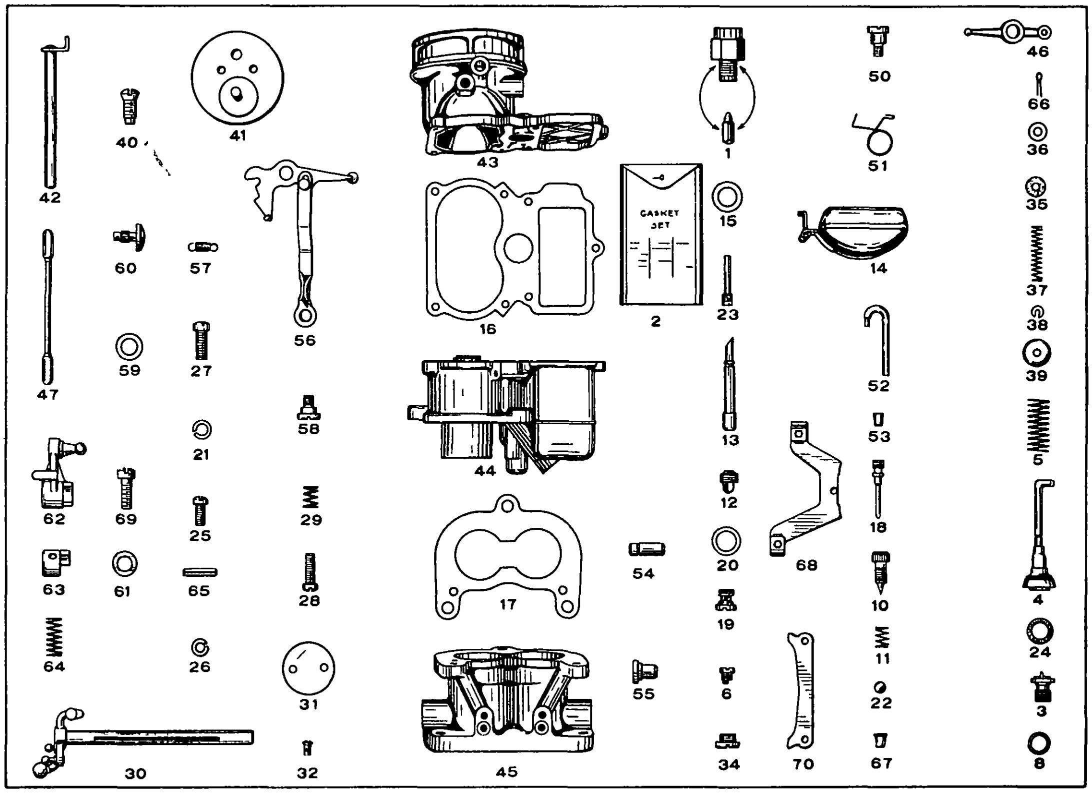
MOTOR TUNE-UP DATA

SPARK PLUG—.028" to .030".
Clean and adjust at regular intervals.

VACUUM BRAKE ADJUSTMENT—Back off adj. on vac. brake until the engine pings under load. Then, turn the adj. screw in just enough to remove the ping. Tighten the adj. screw lock nut.

DISTRIBUTOR—.014" to .016".
Breaker gap set .014" to .016".
Replace if necessary.

VALVES—Intake: .0125" Go: .0135" No Go.
Exhaust: .0125" Go: .0135" No. Go.
Engine cold.



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No	Part No	Part Name
	1	P 20287	Float Needle Valve and Seat 098 **(NOT VAR)**
	2	J 5334 G	Complete Gasket Set
	3	P 20752	Power By Pass Jet No 60 **(NOT VAR)**
	4	P 22759	Pump Piston and Link **(Includes P 16960)**
	4 A	P 22758	Pump Piston Link and Spring (Complete)
	5	P 19458	Spring—Pump Duration
	6	P 18144	Pump Inlet Check Valve
	8	P 19448	Gasket—By Pass Jet
	10	P 17402	Idle Needle Valve
	11	P 18710	Spring Idle Needle Valve
	12	P 19442	Metering Jet **046** **(VAR)**
	13	P 21317	Main Disch Jet No 32 36 **(NOT VAR)**
	14	P 19825	Float with Lever
	15	P 6564	Gasket—Float Needle Valve Seat
	16	P 19428	Gasket—Air Horn
	17	P 19432	Gasket -Main Body
	18	P 19424	Idle Tube No 70 **(NOT VAR)**
	19	P 19441	Plug—Main Disch Jet
	20	P 7338	Gasket—M Disch Jet & Check Valve Plug
	21	P 3157	Lockwasher Main Body Attach Screw
	22	P 18772	Lead Ball
	23	P 18125	Screw Fulcrum Float Lever
	24	P 16960	Spring Pump Piston Leather Expansion
	25	P 3199	Screw Air Horn Attach
	26	P 1791	Lockwasher Air Horn Attach Screw
	27	P 709	Screw Main Body Attach
	28	P 18288	Screw Throttle Stop
	29	P 15831	Spring Throttle Stop Screw
	30	P 23626	Throttle Lever and Stem
		P 21902	Ball Connector (Long)
		P 19509	Ball Connector (Short)
	31	P 19435	Throttle Valve (5°) **(VAR)**
	32	P 20904	Screw Throttle Valve Attach
	34	P 19716	Plug Check Valve
	35	P 17380	Washer Felt- Pump Link
	36	P 17060	Washer Splash—Pump Link
	37	P 19488	Spring Felt Washer Retainer
	38	P 22045	Washer Horseshoe
	9	P 22046	Washer Spring Retainer
	40	P 4522	Screw Choke Valve Attach
	41	P 21314	Choke Valve
	42	P 19407	Choke Stem and Lever
	43	P 21927 T	Air Horn
	43 A	P 21315	Air Horn and Valve (Complete)
	44	P 22877	Main Body **31/32** Venturi—**No 65** High Speed Bleeder **No 36** Idle Air Bleed—**No 60** Pump Disch Tube **(VAR)**
	45	P 19400	Throttle Body **No 56 60** Idle Disch Holes **(VAR)**
	45 A	P 19811	Assy Throttle Body Lever Link & Bushing
	45 B	P 23642	Assy Throttle Body Lever Link & Bushing Throttle Lever and Stem and Valves—with Throttle Loose Lever
	46	P 19427	Pump Lever
	47	P 21630	Pump Rod
	50	P 19433	Screw Pump Lever Fulcrum
	51	P 19490	Spring Pump Lever Return
	52	P 19429	Pump Disch Tube No 60 **(NOT VAR)**
	53	P 19430	Wedge Pump Disch Tube
	54	P 19289	Bushing Throttle Stem
	55	P 19817	Bushing Throttle Stem and Link
	56	P 19812	Choke Lever and Link
	57	P 19425	Spring Choke Lever Return
	58	P 19819	Screw Choke Lever Fulcrum
	59	P 19820	Washer Spring Choke Lever Fulcrum Screw
	60	P 19818	Cap Choke Stem
	61	P 19821	Washer Spring Choke Stem Cap
	62	P 19974	Throttle Loose Lever
	63	P 19719	Throttle Loose Lever Stop
	64	P 19723	Throttle Loose Lever Spring
	65	P 19720	Pin Throttle Loose Lever Stop
	66	P 7170	Cotter Pin Pump Link
	67	P 15458	Plug Idle Disch Channel
	68	P 21500	Assy Choke Tube Holder
		P 21501	Choke Tube Holder
		P 11561	Choke Tube Holder Clamp
		P 14935	Choke Tube Holder Clamp Screw
		P 8806	Choke Tube Holder Clamp Screw Nut
	69	P 13041	Screw Main Body and Tube Holder Attach
	70	P 19703	Baffle Plate

NOTE—For parts marked (VAR) size must be specified when ordering

BENDIX PRODUCTS DIVISION
SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

STROMBERG "EE-1" CARBURETOR

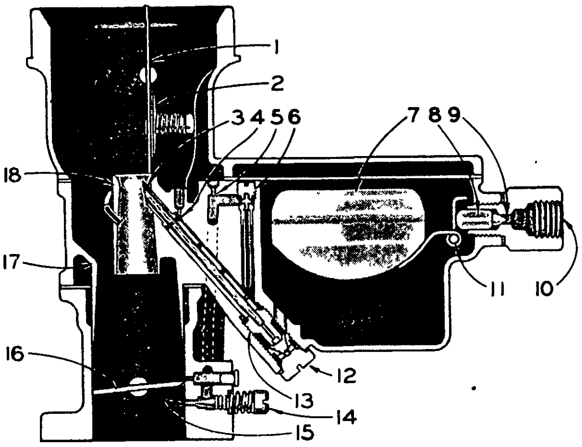
STROMBERG NO. A-18041 LINCOLN SYMBOL H-9510

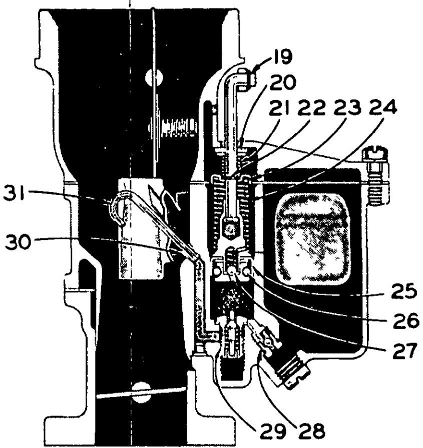
SIZE: 1" DUAL D. D. 3-HOLE FLANGE

1936-37 LINCOLN

1936 MODEL H
1937 MODEL HB
2¾"x3¾"—12 cyl.

PARTS ILLUSTRATED





1. Choke Valve
2. Poppet Valve
3. Main Discharge Jet
4. High Speed Bleeder
5. Idle Air Bleeder
6. Idle Tube
7. Float
8. Float Needle Valve
9. Float Needle Valve Seat
10. Gasoline Inlet
11. Float Fulcrum Pin
12. Main Discharge Jet Plug
13. Main Metering Jet
14. Idle Needle Valve
15. Idle Discharge Holes
16. Throttle Valve
17. Primary Venturi
18. Auxiliary Venturi
19. Pump Link
20. Dust Washer
21. Dust Washer Spring
22. Retainer Washer Lock
23. Duration Spring Retainer Washer
24. Pump Duration Spring
25. Pump Piston
26. Pump Piston Expansion Spring
27. Pump Relief Valve
28. Pump Inlet Check Valve
29. Power By-Pass Jet
30. Pump Discharge Nozzle Holder
31. Pump Discharge

Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **15/32"** below top surface of float chamber (without gasket) at 3 lbs. pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level.)

MAIN METERING SYSTEM—Venturi **31/32"**; Main Discharge Jet **No. 32-36** P-21317 **(Tool T-24925)**; High Speed Bleeder **No. 65** (in body); Main Metering Jet **.046"** P-19442 **(Tool T-24924)**. Use **Tool T-5164** Screw Driver for removing Main Jet Plug; Main Metering System controls the flow of fuel up to approximately 65 to 70 M. P. H.

POWER SYSTEM—Combination Power and Pump By-Pass Jet **No. 60** P-20752. The Power Jet is brought into action at approximately 70 to 75 M. P. H. Pump piston to rest on seat of by-pass jet (less over-travel with throttle valve opened **19/64" + — 1/64"** (maximum setting) (measure with shank end of **19/64"** drill) adjust by bending pump fulcrum arm.

ACCELERATION — Pump Discharge Nozzles **No. 60** P-19429; Pump capacity **17** to **21** c.c. (maximum setting.) **Use Tool T-24972.** Pump action takes place during acceleration period only.

IDLE SYSTEM—Idle Discharge Holes **No. 56-60;** with throttle valve fully closed and **No. 60** drill in idle hole, edge of valve is located **.030" + — .004"** from **No. 60** drill; Idle Air Bleed **No. 40** (in main body); Idle Tube **No. 70** P-19424. **Adjustment:** Adjust to smooth running, one barrel at a time, OUT to make richer and IN to make leaner. Throttle at 7 to 8 M. P. H.

FLANGE GASKET—P-20466.

SPECIAL TOOLS REQUIRED—T-24733 Float Adjuster; T-24925 Main Discharge Jet Remover; T-24924 Main Metering Jet Wrench; T-24970 By-Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burrette Gauge; T-24968 Handle; T-5164 Main Jet Plug Screw Driver.

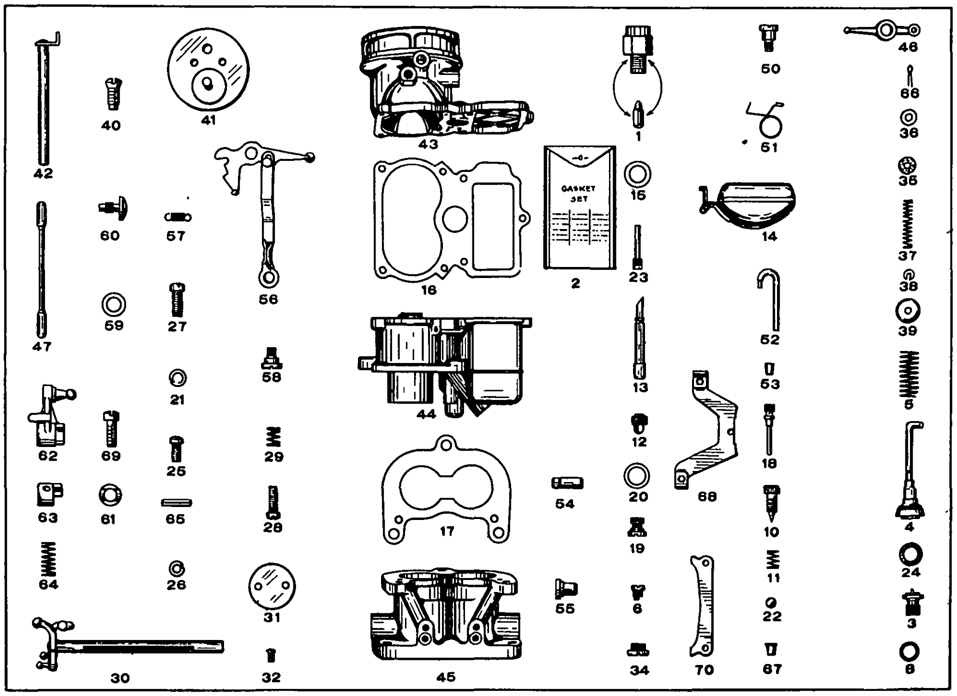
MOTOR TUNE-UP DATA

SPARK PLUGS—.028" to .030".
Clean and adjust at regular intervals.

VACUUM BRAKE ADJUSTMENT—Back off adjustment on vac. brake until engine pings under load. Then, turn the adj. screw in just enough to remove ping. Tighten adj. screw locknut.

DISTRIBUTOR—.014" to .016".
Breaker gap set .014" to .016".
Replace if necessary.

VALVES—Intake: .0125" Go; .0135" No Go.
Exhaust: .0125" Go; .0135" No Go.
Engine cold.



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No.	Part No.	Part Name
	1	**P-20287**	Float Needle Valve & Seat .098" **(NOT VAR.)**
	2	**J-4383-G**	Complete Gasket Set
	3	**P-20752**	Power By-Pass Jet No. 60 **(NOT VAR.)**
	4	**P-22759**	Pump Piston and Link **(Includes P-16960)**
	4-A	**P-22758**	Pump Piston Link & Spring **(Complete)**
	5	**P-19458**	Spring—Pump Duration
	6	**P-18144**	Pump Inlet Check Valve
	8	**P-19448**	Gasket—By-Pass Jet
	10	**P-17402**	Idle Needle Valve
	11	**P-18710**	Spring—Idle Needle Valve
	12	**P-19442**	Metering Jet .046" **(VAR.)**
	13	**P-21317**	Main Disch. Jet No. 32-36 **(NOT VAR.)**
	14	**P-19825**	Float with Lever
	15	**P-6564**	Gasket—Float Needle Valve Seat
	16	**P-19428**	Gasket—Air Horn
	17	**P-19432**	Gasket—Main Body
	18	**P-19424**	Idle Tube No. 70 **(NOT VAR.)**
	19	**P-19441**	Plug—Main Disch. Jet
	20	**P-7338**	Gasket—M. Disch. Jet & Check Valve Plug
	21	**P-3157**	Lockwasher—Main Body Attach. Screw
	22	**P-18772**	Lead Ball
	23	**P-18125**	Screw—Fulcrum—Float Lever
	24	**P-16960**	Spring—Pump Piston Leather Expansion
	25	**P-3199**	Screw—Air Horn Attach.
	26	**P-1791**	Lockwasher—Air Horn Attach. Screw
	27	**P-709**	Screw—Main Body Attach.
	28	**P-18288**	Screw—Throttle Stop
	29	**P-15831**	Spring—Throttle Stop Screw
	30	**P-21625**	Throttle Lever & Stem
		P-21902	Ball Connector (Long)
		P-19509	Ball Connector (Short)
	31	**P-19435**	Throttle Valve (5°) **(VAR.)**
	32	**P-20904**	Screw—Throttle Valve Attach.
	34	**P-19716**	Plug—Check Valve
	35	**P-17380**	Washer—Felt—Pump Link
	36	**P-17060**	Washer—Splash—Pump Link
	37	**P-19488**	Spring—Felt Washer Retainer
	38	**P-22045**	Washer—Horseshoe
	39	**P-22046**	Washer—Spring Retainer

NOTE—For parts marked (VAR.) size must be specified when ordering.

Bin Location	Key No.	Part No.	Part Name
	40	**P-4522**	Screw—Choke Valve Attach.
	41	**P-21314**	Choke Valve
	42	**P-19407**	Choke Stem & Lever
	43	**P-21927-T**	Air Horn
	43A	**P-21315**	Air Horn & Valve (Complete)
	44	**P-22877**	Main Body — **31/32"** Venturi — **No. 65** H. S. Bleeder **No. 40** Idle Air Bleed **No. 60** Pump Disch. Tube **(VAR.)**
	45	**P-19400**	Throttle Body **No. 56-60** Idle Disch. Holes **(VAR.)**
	45-A	**P-19811**	(Assy.) Throttle Body—Lever, Link & Bushing
	45-B	**P-20284**	(Assy.) Throttle Body—Lever, Link & Bushing Throttle Lever & Stem & Valves—with Throttle Loose Lever
	46	**P-19427**	Pump Lever
	47	**P-21630**	Pump Rod (Supersedes P-19420)
	50	**P-19433**	Screw—Pump Lever Fulcrum
	51	**P-19490**	Spring—Pump Lever Return
	52	**P-19429**	Tube—Pump Disch. No. 60 **(NOT VAR.)**
	53	**P-19430**	Wedge—Pump Disch. Tube
	54	**P-19289**	Bushing—Throttle Stem
	55	**P-19817**	Bushing—Throttle Stem & Link
	56	**P-19812**	Choke Lever & Link
	57	**P-19425**	Spring—Choke Lever Return
	58	**P-19819**	Screw—Choke Lever Fulcrum
	59	**P-19820**	Washer—Spring—Choke Lever Fulcrum Screw
	60	**P-19818**	Cap—Choke Stem
	61	**P-19821**	Washer—Spring—Choke Stem Cap
	62	**P-19974**	Throttle Loose Lever
	63	**P-19719**	Throttle Loose Lever Stop
	64	**P-19723**	Throttle Loose Lever Spring
	65	**P-19720**	Pin—Throttle Loose Lever Stop
	66	**P-7170**	Cotter Pin—Pump Link
	67	**P-15458**	Plug—Idle Disch. Channel
	68	**P-21500**	Assy.—Choke Tube Holder
		P-21501	Choke Tube Holder
		P-11561	Choke Tube Holder Clamp
		P-14935	Choke Tube Holder Clamp Screw
		P-8806	Choke Tube Holder Clamp Screw Nut
	69	**P-13041**	Screw—Main Body & Tube Holder Attach.
	70	**P-19703**	Baffle Plate

BENDIX PRODUCTS DIVISION

SOUTH BEND **OF BENDIX AVIATION CORPORATION** **INDIANA**

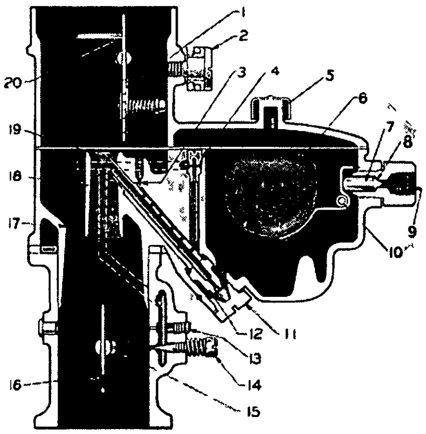
STROMBERG "EE-22" CARBURETOR

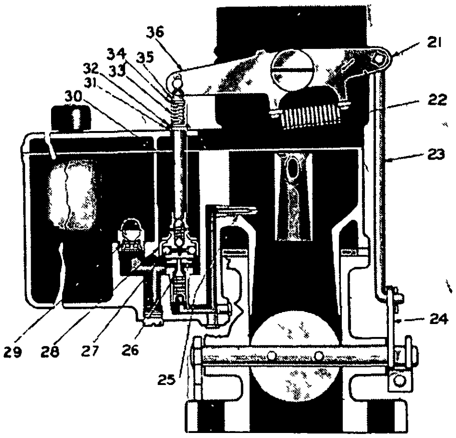
STROMBERG NO. A-18282 LINCOLN SYMBOL K-2150-K

SIZE: 1¼" DUAL D. D. 4-HOLE FLANGE

1936
LINCOLN
MODEL
"K"
3⅛"x4½"—12 cyl.

PARTS ILLUSTRATED





1. Poppet Valve
2. Fulcrum Screw
3. High Speed Bleed
4. Idle Tube
5. Float Chamber Vent
6. Float
7. Float Needle Valve
8. Float Needle Valve Seat
9. Gasoline Inlet
10. Float Fulcrum Pin
11. Main Discharge Jet Plug
12. Main Metering Jet
13. Idle Discharge Plug
14. Idle Needle Valve
15. Idle Discharge Holes
16. Throttle Valve
17. Primary Venturi
18. Auxiliary Venturi
19. Main Discharge Jet
20. Choke Valve
21. Pump Lever Arm
22. Pump Arm Connecting Spring
23. Pump Rod
24. Pump Lever
25. Pump Discharge Nozzle
26. Power By-Pass Jet
27. Pump Piston Spring
28. Pump Piston
29. Check Valve
30. Pump Piston Link
31. Felt Washer
32. Splash Washer
33. Spring
34. Retainer Washer
35. Cotter Pin
36. Pump Piston Arm

Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **9/16"** below top surface of float chamber (without gasket) at 3 lbs. pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level.)

MAIN METERING SYSTEM—Venturi **1-3/16"**; Main Discharge Jet **No. 28-32** P-21799 **(Tool T-24925)**; High Speed Bleeder **No. 70** (in body); Main Metering Jet **.057"** P-17004 **(Tool T-23844).** Use **Tool T-5164** to remove Main Jet Plug; Main Metering System controls the flow of fuel up to approximately 60 to 65 M. P. H.

POWER SYSTEM—Combination Power and Pump By-Pass Jet **4 No. 56** P-18149. The Power Jet is brought into action at approximately 65 to 70 M. P. H. Pump piston to rest on seat of by-pass jet (less over-travel) with throttle valve opened **21/64" + — 1/64"** (maximum setting) (measure with shank end of **21/64"** drill) adjust by bending pump rod.

ACCELERATION — Pump Discharge Nozzles **No. 65** P-18852; Pump capacity **17** to **21** c.c. per 10 fast strokes and **20** to **24** c.c. per 10 slow strokes (maximum setting.) **(Tool T-24972).** Pump action takes place during acceleration period only.

IDLE SYSTEM—Idle Discharge Holes **No. 56-60;** with throttle valve fully closed and **No. 60** drill in idle hole, edge of valve is located **.030" + — .004"** from **No. 60** drill; Idle Air Bleed **No. 44** P-15477; Idle Tube **No. 70** P-17007. **Adjustment:** Adjust to smooth running, one barrel at a time, OUT to make richer and IN to make leaner. Throttle at 7 to 8 M. P. H.

FLANGE GASKET—P-18165.

SPECIAL TOOLS REQUIRED—T-24733 Float Adjuster; T-24925 Main Discharge Jet Remover; T-23844 Main Metering Jet Wrench; T-24970 By-Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burrette Gauge; T-24968 Handle; T-5164 Main Jet Plug Screw Driver.

MOTOR TUNE-UP DATA

SPARK PLUGS—.025".

Clean and adjust at regular intervals.

DISTRIBUTOR—.020".

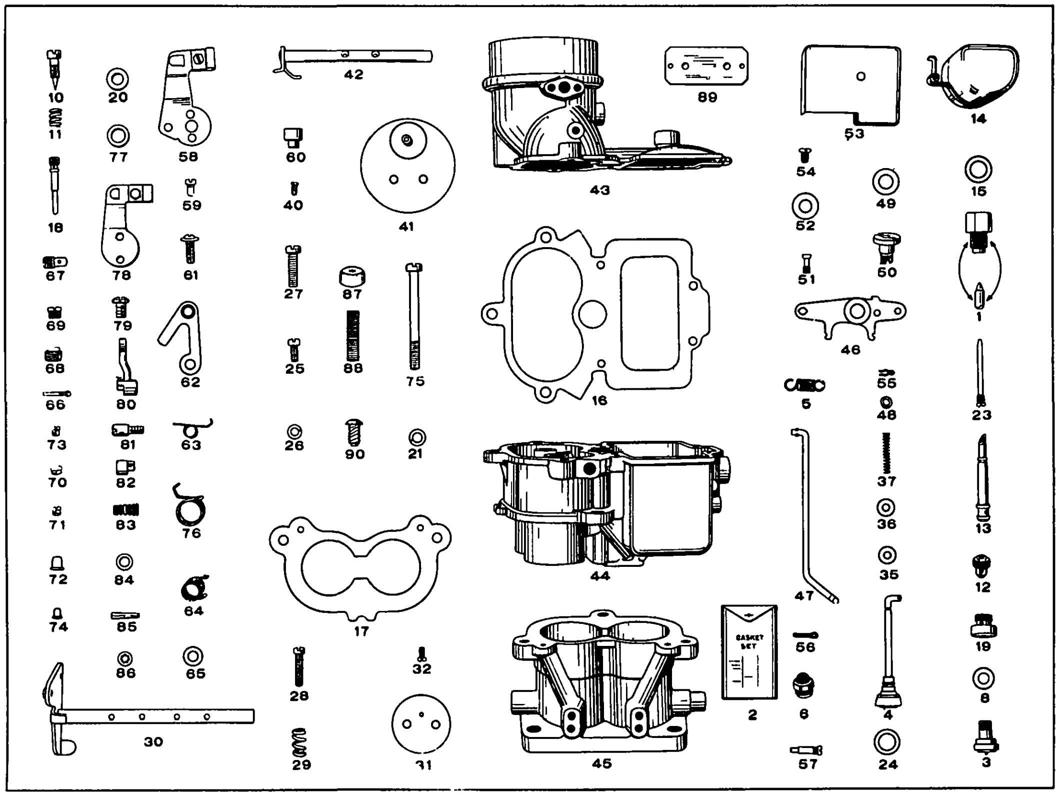
Breaker gap set .020".

Replace if necessary.

IGNITION TIMING—Adjustable contacts to open top dead center when mark "DI-IIC" on flywheel is in line with pointer on flywheel housing. This contacts control left hand coil and fire left bank of cylinders.

VALVES—Intake: .004".
Exhaust: .006". **Engine cold.**

STROMBERG STROMBERG CARBURETORS **CARBURETOR**



SERVICE REPLACEMENT PARTS LIST

Bin Loca-tion	Key No.	Part No.	Part Name	
	1	P-19547	Float Needle Valve & Seat .130"	(NOT VAR.)
	2	J-4363-G	Complete Gasket Set	
	3	P-18149	Power By Pass Jet No 56	(NOT VAR.)
	4	P-17073	Pump Piston & Link	(Includes P-16960)
	5	P-17042	Spring—Pump Duration	
	6	P-16990	Check Valve—Pump Inlet	
	8	P-6855	Gasket—By Pass Jet	
	10	P-17402-K	Idle Needle Valve	
	11	P-15481	Spring—Idle Needle Valve	
	12	P-17004	Metering Jet .057"	(VAR.)
	13	P-21799	Main Disch Jet No 28-32	(NOT VAR.)
	14	P-17926	Float with Lever	
	15	P 10666	Gasket—Float Needle Valve Seat	
	16	P-17923	Gasket—Air Horn	
	17	P-16941	Gasket—Main Body	
	18	P-17007	Idle Tube No 70	(NOT VAR.)
	19	P-18130-K	Plug—Main Disch Jet	
	20	P-60308	Gasket—Main Disch Jet Plug	
	21	P-3157	Lockwasher—Main Body Attach Screw	
	23	P-17939-K	Screw—Fulcrum—Float Lever	
	24	P-16960	Spring—Pump Piston Leather Expansion	
	25	P-46	Screw—Air Horn Attach	
	26	P-6668	Lockwasher—Air Horn Attach Screw	
	27	P-15554	Screw—Main Body Attach	
	28	P-15456	Screw—Thro Stop	
	29	P-15831	Spring—Thro Stop Screw	
	30	P-20678	Throttle Lever & Stem	
	31	P-17018	Throttle Valve (5°)	(NOT VAR.)
	32	P 16716	Screw—Throttle Valve Attach	
	35	P-17380	Washer—Felt	
	36	P-17060	Washer—Splash—Pump Link	
	37	P-17753	Spring—Packing Retainer	
	40	P 4522	Screw—Choke Valve Attach	
	41	P-17070	Choke Valve	
	42	P-18562	Choke Stem & Lever	
	43	P-24552	Air Horn	
	43 A	P-18566	(Assy) Air Horn & Valve	
	44	P 18482	Main Body 1-3/16" Ven **No. 70** H S Bleed	(VAR)
	45	P 20680	Assy — Throttle Body **No. 56-60** Idle Disch Holes	(VAR.)
		P-20670	Throttle Stem Bushing	
	46	P-16976	Pump Lever	
	47	P 17045	Pump Rod	
	48	P 9394	Washer—Pump Rod & Link	
	49	P-17133	Washer—Pump Lever Fulcrum Screw Spring	
	50	P 16973	Screw—Pump Lever Fulcrum	
	51	P-17027	Screw—Pump Lever Fulcrum Screw Lock	
	52	P-17009	Washer—Pump Lever Fulcrum Screw	
	53	P-17442	Housing—Pump Lever	
	54	P-11531	Screw—Pump Lever Housing Attach	
	55	P-19374	Cotter Pin—Pump Link	
	56	P-7170	Cotter Pin—Pump Rod	
	57	P-18852	Nozzle—Pump Disch **No. 65**	(VAR.)
	58	P-18848	Assy —Choke Tube Holder	
		P-18560	Choke Tube Holder	
		P-11561	Choke Tube Holder Clamp	
		P 2266	Choke Tube Holder Clamp Screw	
		P-8806	Choke Tube Holder Clamp Screw Nut	
	59	P-17093	Screw—Choke Tube Holder Attach	
	60	P-17058	Bushing—Choke Lever	
	61	P-17059	Screw—Choke Lever Fulcrum	
	62	P 18559	Choke Lever	
	63	P-18563	Spring—Choke Valve Return	
	64	P-18558	Spring—Choke Lever Return	
	65	P-16426-F	Washer—Choke Stem	
	66	P-4	Cotter Pin—Choke Stem	
	67	P-15477-K	Idle Air Bleeder **No. 44**	(VAR.)
	68	P-3292 K	Plug—1/8 Pipe—Decarbonizing Boss	
	69	P-6406-K	Plug—Pump Disch Channel—No 5/16-24	
	70	P-6202-K	Plug—Pump Disch Channel—No 1/4-32	
	71	P-7098-K	Plug—Pump Channel—No 8-32	
	72	P-15459	Plug—Idle Channel—1/4	
	73	P 6387	Plug—Idle Disch Holes—No 10-32	
	74	P-15457	Plug—Idle Air Bleed Channel—No 6	
	75	P 18111	Screw —Air Horn Attach	
	76	P 18480	Spring—Throttle Lever Return	
	77	P-19769	Washer—Throttle Lever Return Spring	
	78	P-20677	Assy —Throttle Tube Holder	
		P-20676	Throttle Tube Holder	
		P-11561	Throttle Tube Holder Clamp	
		P-14935	Throttle Tube Holder Clamp Screw	
		P 8806	Throttle Tube Holder Clamp Screw Nut	
	79	P 11531	Screw—Throttle Tube Holder Attach	
	80	P 20669	Lever—Throttle Loose	
	81	P-20889	Screw—Throttle Loose Lever Stop	
	82	P 21346	Stop—Throttle Loose Lever	
	83	P-19723	Spring—Throttle Lever (Loose) Stop	
	84	P 20679	Washer—Throttle Loose Lever' Stop Spring	
	85	P 19720	Pin—Throttle Loose Lever Stop	
	86	P-15346	Lockwasher—Throttle Tube Holder Attach Screw	
	87	P 17828 F	Cap—Float Vent	
	88	P-18351	Screen—Float Vent	
	89	P-18174	Plate—Air Horn Baffle	
	90	P 9802	Rivet—Air Horn Baffle Plate	

NOTE—For parts marked (VAR.) size must be specified when ordering.

BENDIX PRODUCTS DIVISION
SOUTH BEND **OF BENDIX AVIATION CORPORATION** **INDIANA**

Printed in U S A.

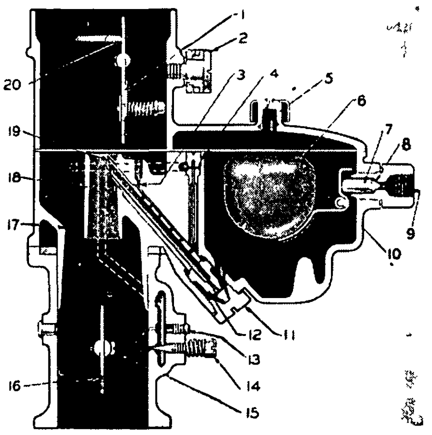
STROMBERG "EE-22" CARBURETOR

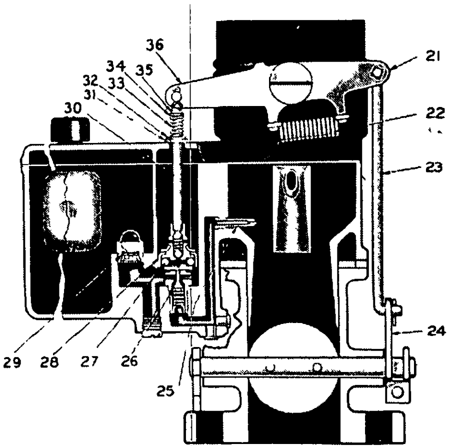
STROMBERG NO. A-18042 (CODE NO. 40-4) LINCOLN SYMBOL K-2150-H

SIZE: 1¼" DUAL D. D. 4-HOLE FLANGE

1935
LINCOLN
MODEL
"K"
3⅛"x4½"—12 cyl.

PARTS ILLUSTRATED





1 Poppet Valve
2. Fulcrum Screw
3. High Speed Bleed
4 Idle Tube
5. Float Chamber Vent
6. Float
7. Float Needle Valve
8 Float Needle Valve Seat
9 Gasoline Inlet
10 Float Fulcrum Pin
11 Main Discharge Jet Plug
12 Main Metering Jet
13 Idle Discharge Plug
14. Idle Needle Valve
15. Idle Discharge Holes
16. Throttle Valve
17. Primary Venturi
18 Auxiliary Venturi
19 Main Discharge Jet
20 Choke Valve
21 Pump Lever Arm
22. Pump Arm Connecting Spring
23. Pump Rod
24. Pump Lever
25 Pump Discharge Nozzle
26 Power By-Pass Jet
27. Pump Piston Spring
28 Pump Piston
29 Check Valve
30 Pump Piston Link
31 Felt Washer
32 Splash Washer
33 Spring
34 Retainer Washer
35 Cotter Pin
36 Pump Piston Arm

Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **9/16"** below top surface of float chamber (without gasket) at 3 lbs. pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level.)

MAIN METERING SYSTEM—Venturi **1-3/16"**; Main Discharge Jet **No. 28-36** P-19364 **(Tool T-24925)**; High Speed Bleeder **No. 65** (in body); Main Metering Jet **.058"** P-17004 **(Tool T-23844).** Use **Tool T-5164** to remove Main Jet Plug, Main Metering System controls the flow of fuel up to approximately 60 to 65 M. P. H.

POWER SYSTEM—Combination Power and Pump By-Pass Jet **No. 53** P-19481. The Power Jet is brought into action at approximately 65 to 70 M. P. H. Pump piston to rest on seat of by-pass jet (less over-travel) with throttle valve opened **21/64" + — 1/64"** (maximum setting) (measure with shank end of **21/64"** drill) adjust by bending pump rod.

ACCELERATION — Pump Discharge Nozzles **No. 67** P-18852; Pump capacity **17** to **21** c.c. per 10 fast strokes and **20** to **24** c.c. per 10 slow strokes. (Maximum setting.) Use **Tool T-24972.** Pump action takes place during acceleration period only.

IDLE SYSTEM—Idle Discharge Holes **No. 56-60**; with throttle valve fully closed and **No. 60** drill in idle hole, edge of valve is located **.030" + — .004"** from **No. 60** drill; Idle Air Bleed **No. 46** P-15477; Idle Tube **No. 70** P-17007. **Adjustment:** Adjust to smooth running, one barrel at a time, OUT to make richer and IN to make leaner. Throttle at 7 to 8 M. P. H.

FLANGE GASKET—P-18165.

SPECIAL TOOLS REQUIRED—T-24733 Float Adjuster; T-24925 Main Discharge Jet Remover; P-23844 Main Metering Jet Wrench; T-24970 By-Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burrette Gauge; T-24968 Handle; T-5164 Main Jet Plug Screw Driver.

MOTOR TUNE-UP DATA

SPARK PLUGS—.025".

Clean and adjust at regular intervals.

DISTRIBUTOR—.018" to .020".

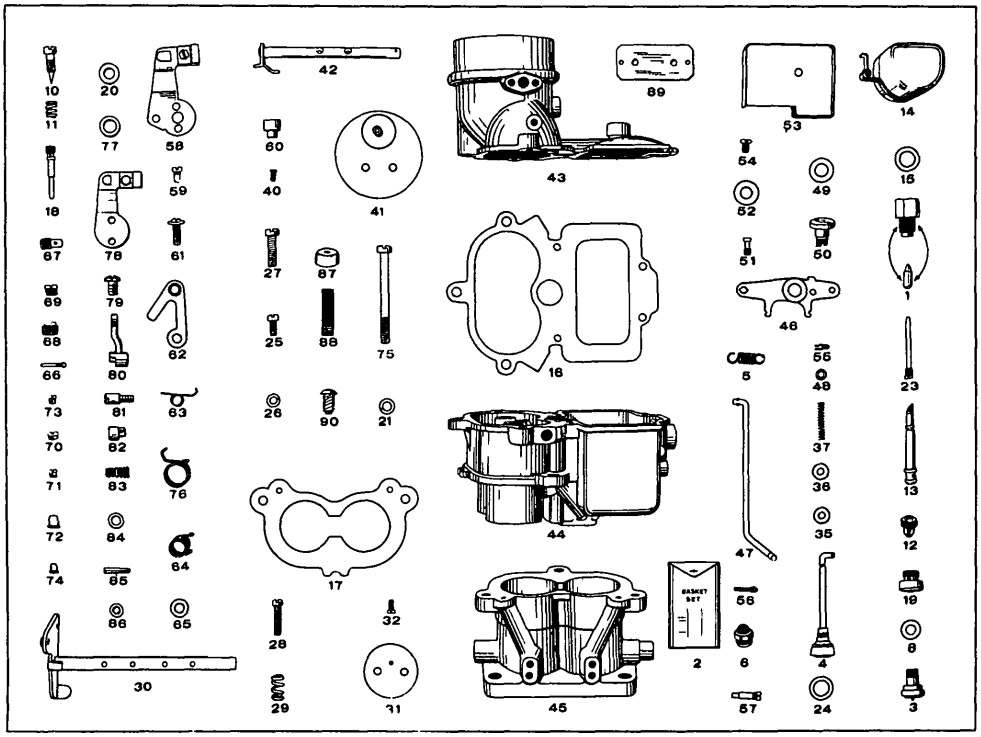
Breaker gap set .018" to .020".

Replace if necessary.

IGNITION TIMING—Stationary contacts to open 7° (.020" piston travel) before top dead center (for cylinder 1R) when mark A-2 on flywheel is in line with pointer on flywheel housing. These contacts control right hand coil and first right bank of cylinders.

VALVES—Intake: .004".
Exhaust: .006". **Engine cold.**

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Bin Loca- ti n	Key No.	Part N .	Part Name	
	1	P-19547	Float Needle Valve & Seat .130"	(NOT VAR)
	2	J-4363-G	Complete Gasket Set	
	3	P-19481	Power By-Pass Jet No 53	(NOT VAR)
	4	P-17073	Pump Piston & Link	(Includes P-16960)
	5	P-17042	Spring—Pump Duration	
	6	P 16990	Check Valve—Pump Inlet	
	8	P-6855	Gasket—By-Pass Jet	
	10	P-17402-K	Idle Needle Valve	
	11	P-15481	Spring—Idle Needle Valve	
	12	P 17004	Metering Jet .058"	(VAR.)
	13	P-19364	Main Disch Jet No 28 36	(NOT VAR.)
	14	P-17926	Float with Lever	
	15	P 10666	Gasket—Float Needle Valve Seat	
	16	P-17923	Gasket—Air Horn	
	17	P 16941	Gasket—Main Body	
	18	P-17007	Idle Tube No 70	(NOT VAR.)
	19	P-18130-K	Plug—Main Disch Jet	
	20	P-60308	Gasket—Main Disch Jet Plug	
	21	P 3157	Lockwasher—Main Body Attach Screw	
	23	P-17939-K	Screw—Fulcrum—Float Lever	
	24	P 16960	Spring—Pump Piston Leather Expansion	
	25	P-46	Screw—Air Horn Attach	
	26	P-6668	Lockwasher—Air Horn Attach Screw	
	27	P-15554	Screw—Main Body Attach	
	28	P 15456	Screw—Throttle Stop	
	29	P 15831	Spring—Throttle Stop Screw	
	30	P-20678	Throttle Lever & Stem	
	31	P-17018	Throttle Valve (5°)	(NOT VAR)
	32	P-16716	Screw—Throttle Valve Attach	
	35	P 17380	Washer—Felt	
	36	P 17060	Washer—Splash—Pump Link	
	37	P 17753	Spring--Packing Retainer	
	40	P-4522	Screw—Choke Valve Attach	
	41	P-17070	Choke Valve	
	42	P-18562	Choke Stem & Lever	
	43	P 24552	Air Horn	
	43-A	P 18566	(Assy) Air Horn & Valve	
	44	P 18482	Main Body 1-3/16" Venturi No 65 H S Bleeder	(VAR)
	45	P 20680	Assy —Throttle Body No 56 60 Idle Disch Holes	(VAR)
		P 20670	Throttle Stem Bushing	
	46	P-16976	Pump Lever	
	47	P 17045	Pump Rod	
	48	P 9394	Washer—Pump Rod & Link	
	49	P-17133	Washer—Pump Lever Fulcrum Screw Spring	
	50	P 16973	Screw—Pump Lever Fulcrum	

NOTE—For parts marked (VAR) size must be specified when ordering

Bin Loca- tion	Key No.	Part No.	Part Name	
	51	P-17027	Screw—Pump Lever Fulcrum Screw Lock	
	52	P-17009	Washer—Pump Lever Fulcrum Screw	
	53	P-17442	Housing—Pump Lever	
	54	P-11531	Screw—Pump Lever Housing Attach	
	55	P-19374	Cotter Pin—Pump Link	
	56	P 7170	Cotter Pin—Pump Rod	
	57	P-18852	Nozzle—Pump Disch No. 67	(VAR.)
	58	P 18848	Assy —Choke Tube Holder	
		P-18560	Choke Tube Holder	
		P-11561	Choke Tube Holder Clamp	
		P 2266	Choke Tube Holder Clamp Screw	
		P-8806	Choke Tube Holder Clamp Screw Nut	
	59	P-17093	Screw—Choke Tube Holder Attach.	
	60	P-17058	Bushing—Choke Lever	
	61	P-17059	Screw—Choke Lever Fulcrum	
	62	P-18559	Choke Lever	
	63	P 18563	Spring—Choke Valve Return	
	64	P-18558	Spring—Choke Lever Return	
	65	P 16426 F	Washer—Choke Stem	
	66	P-4	Cotter Pin—Choke Stem	
	67	P-15477 K	Idle Air Bleeder No. 46	(VAR.)
	68	P 3292 K	Plug ⅛ Pipe—Decarbonizing Boss	
	69	P-6406 K	Plug—Pump Disch Channel No 5/16-24	
	70	P 6202-K	Plug—Pump Disch Channel ¼-32	
	71	P 7098 K	Plug—Pump Channel No 8-32	
	72	P 15459	Plug—Idle Channel ¼'	
	73	P 6387	Plug—Idle Disch Holes No 10-32	
	74	P 15457	Plug—Idle Air Bleed Channel No 6	
	75	P 18111	Screw—Air Horn Attach	
	76	P 18480	Spring—Throttle Lever Return	
	77	P 19769	Washer—Throttle Lever Return Spring	
	78	P 20677	Assy —Throttle Tube Holder	
		P 20676	Throttle Tube Holder	
		P 11561	Throttle Tube Holder Clamp	
		P 14935	Throttle Tube Holder Clamp Screw	
		P 8806	Throttle Tube Holder Clamp Screw Nut	
	79	P 11531	Screw—Throttle Tube Holder Attach	
	80	P 20669	Lever—Throttle Loose	
	81	P-20889	Screw—Throttle Loose Lever Stop	
	82	P 21346	Stop—Throttle Loose Lever	
	83	P 19723	Spring—Throttle Loose Lever Stop	
	84	P 20679	Washer—Throttle Loose Lever Stop Spring	
	85	P-19720	Pin—Throttle Loose Lever Stop	
	86	P 15346	Lockwasher—Thro Tube Holder Attach Screw	
	87	P 17828-F	Cap—Float Vent	
	88	P 18351	Screen—Float Vent	
	89	P-18174	Plate—Air Horn Baffle	
	90	P 9802	Rivet—Air Horn Baffle Plate	

BENDIX PRODUCTS DIVISION

SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

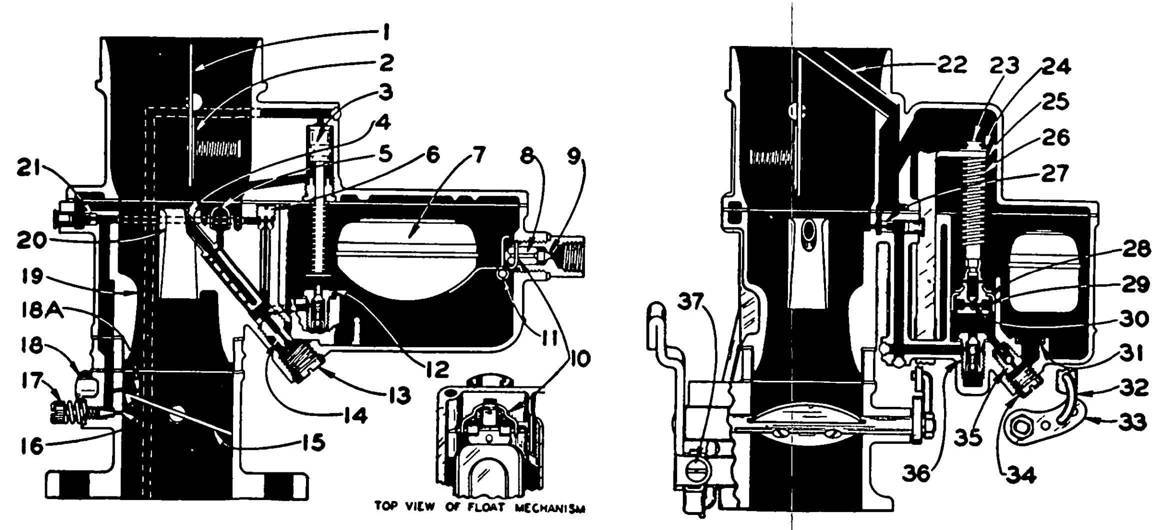
STROMBERG BXV-2 CARBURETOR

STROMBERG NO A-19202 (CODE NO 24-145B) MACK SYMBOL NO 234GBC326-P1

STROMBERG NO 380006 (CODE NO 24-166) MACK SYMBOL NO 234GBC326-P2

SIZE 1-1/4″ D D S A E 2-11/16″ FLANGE CENTERS

1939
MACK
Model
"ED-DE"
3-3/16″ x 4-3/8″—6 cyl.



PARTS ILLUSTRATED

1 Choke Valve
2 Choke Relief Valve
3 Vacuum Power Piston
4 Main Discharge Jet
5 High Speed Bleeder
6 Idle Tube
7 Float
8 Float Needle Valve
9 Float Needle Valve Seat
10 Float Fulcrum Pin Clip
11 Float Fulcrum Pin
12 Power By Pass Jet
13 Main Jet Plug
14 Main Metering Jet
15 Throttle Valve
16 Idle Discharge Holes
17 Idle Needle Valve
18 Vacuum Spark Conn
18A Vacuum Spark Hole
19 Primary Venturi
20 Auxiliary Venturi
21 Idle Air Bleed
22 Float Chamber Vent
23 Piston Conn Rod
24 Cotter Pin
25 Pump Piston Rod
26 Pump Duration Spring
27 Pump Discharge Nozzle
28 Pump Piston
29 Pump Piston Exp Spring
30 Pump Relief Valve
31 Pump Inlet Strainer
32 Pump Link
33 Pump Lever
34 Pump Inlet Plug
35 Pump Inlet Check Valve
36 Pump By Pass Jet
37 Throttle Stop Screw

Not —Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **5/8″** below top surface of float chamber (without gasket) at 3 lbs pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level)

MAIN METERING SYSTEM — Venturi **1-3/32″**; Main Discharge Jet (See Parts Page for Size and Number information) (**Tool T-24967**); High Speed Bleeder **No. 70** P-23985 Main Metering Jet (See Parts Page for Size and Number information) (**Tool T-24924**); Use **Tool T-19099** Screwdriver for removing main jet plug Main metering system controls the flow of fuel up to approximately 65 to 70 M P H

POWER SYSTEM—Power By-Pass Jet (See Parts Page for Size and Number information), Power jet to come into operation at **4″** to **6″** of manifold vacuum, which is approximately 65 to 70 M P H (**Tool T-24733**) used to remove vacuum power piston

ACCELERATION—Pump Discharge Nozzle **No. 70** P-24067 in main body, Pump By-Pass Jet **2 No. 56** P 24062, Pump capacity **11** to **14** c c per 10 slow strokes, with pump rod link set in middle setting. Pump Travel 1/4″ to 9/32″ Pump action takes place during acceleration period only. (**Tool T-24972.**)

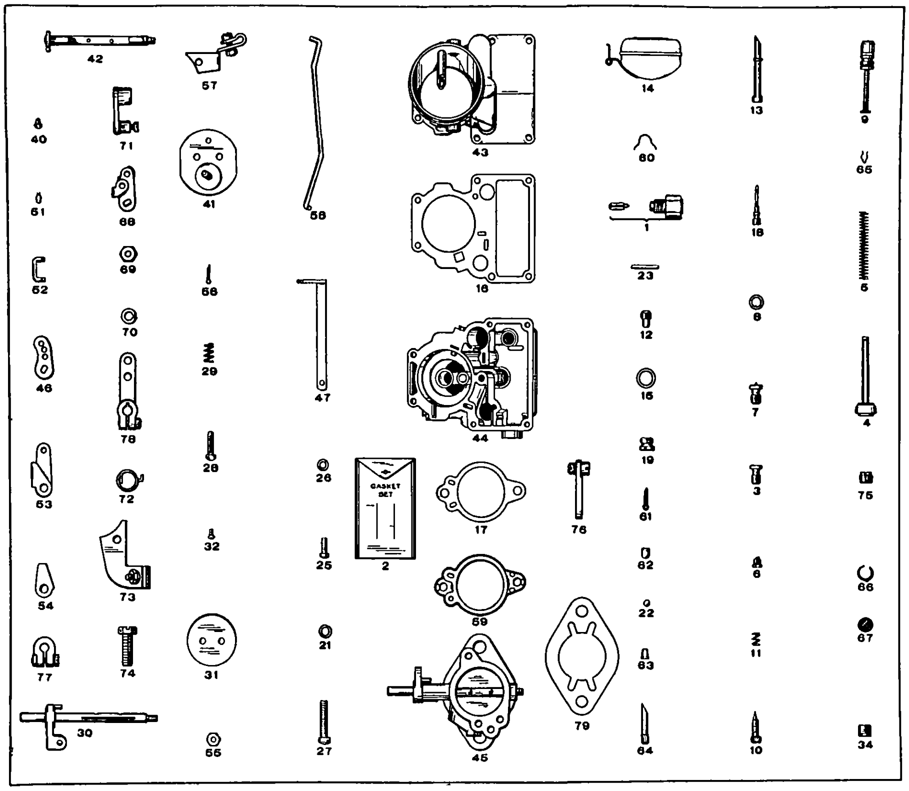
IDLE SYSTEM—Idle Discharge holes **Nos. 56-58.** With throttle valve fully closed and **No. 58** drill in idle hole, edge of valve is located **Flush** + **.006″** — **.000″** from **No. 58** drill, Idle Air Bleed **No. 56** P-21639 in main body, Idle Tube **No. 70** P-21778. **Adjustment:** Adjust to smooth running, **OUT** to make richer and **IN** to make leaner, throttle at 7 to 8 M P H.

FLANGE GASKET—P-24314

SPECIAL TOOLS REQUIRED—T-24733 Float Adj. and power piston wrench T-24967 Main Discharge Jet Remover, T-24924 Main Metering Jet Wrench, T-24970 By Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burrette Gauge, T-24968 Handle T-19099 Main jet plug screwdriver

MOTOR TUNE-UP DATA

Diversification of Equipment makes standard tune-up specifications impossible.



SERVICE REPLACEMENT PARTS LIST

Key No	No 380006	No A-19202	Part Name
1	P 24063	P 24063	Float Needle Valve and Seat 086 **(NOT VAR)**
2	J 5409 G	J 5409 G	Complete Gasket Set
3	P 24062	P 24062	
	2 No 56	**2 No 56**	Pump By Pass Jet **(NOT VAR)**
4	P 24039	P 24039	Pump Piston and Link **(Complete)**
5	P 24287	P 24287	Spring—Pump Duration
6	P 18144	P 18144	Pump Inlet Check Valve
7	P 23348	*P 23676	
	No 57	**No 55**	Power By Pass Jet **(NOT VAR)**
8	P 19448	P 19448	Gasket—By Pass Jet
9	P 24043	P 24043	Vacuum Power Piston
10	P 17402	P 17402	Idle Needle Valve
11	P 15481	P 15481	Spring—Idle Needle Valve
12	P 19442	P 19442	
	058′	**056**	Metering Jet **(VAR)**
13	P 24656	P 24656	
	No 28	**Nos 28-36**	Main Discharge Jet **(NOT VAR)**
14	P 22081	P 22081	Float with Lever
15	P 10666	P 10666	Gasket—Float Needle Valve Seat
16	P 24624	P 24624	Gasket—Air Horn
17	P 24037	P 24037	Gasket—Main Body
18	P 21778	P 21778	Idle Tube
19	P 23902	P 23902	Plug—Main Discharge Jet
21	P 3157	P 3157	Lockwasher—Main Body Attach Screw
22	P 18772	P 18772	Lead Ball
23	P 23272	P 23272	Fulcrum Pin—Float Lever
25	P 3199	P 3199	Screw—Air Horn Attach
26	P 1791	P 1791	Lockwasher—Air Horn Attach Screw
27	P 22025	P 22025	Screw—Main Body Attach
28	P 15456	P 15456	Screw—Throttle Stop
29	P 15831	P 15831	Spring—Throttle Stop Screw
30	P 24257	P 24257	Throttle Stop and Stem
31	P 24312	P 24312	
	20°	**20°**	Throttle Valve
32	P-4522	P 4522	Screw—Throttle Valve Attach
34	P 23269	P 23269	Plug—Check Valve
40	P 22573	P 22573	Screw—Choke Valve Attach
41	P 24046	P 24046	Choke Valve
42	P 24077	P 24077	Choke Stem and Lever
43	P 24709	P 24709	Assembly—Air Horn
44	P 24311	*382113	Assy —Main Body **1 3/32** Venturi (complete with High Speed Bleeder) **(VAR)**
45	P 24708	P 24708	Assy —Throttle Body **Nos 56-58** idle discharge holes (compt with throt stem and valve) **(VAR)**
46	P 21774	P 21774	Pump Lever
47	P 24042	‡P 24837	Pump Rod
51	P 19374	P 19374	Cotter Pin—Pump Link
52	P 24041	‡P 24836	Pump Link
53	P 23621	P 23621	Lever—Fast Idle Cam
54	P 23622	P 23622	Cam—Fast Idle
55	P 2290	P 2290	Nut—Pump Lever Attach
56	112 S 22	112 S 22	Cotter Pin—Fast Idle Rod
57	P 24260	P 24260	Tube Holder—Throttle Loose Lever
	P 24261	P 24261	Holder
	P 2229	P 2229	Screw—Holder Clamp
	P 2290	P 2290	Nut—Holder Clamp Screw
	P 15875	P 15875	Lockwasher—Holder Clamp Nut
58	P 24060	P 24060	Rod—Fast Idle
59	P 23857	P 23857	Spacer—Main Body Insulator
60	P 23273	P 23273	Spring—Float Fulcrum Pin
61	P 7170	P 7170	Cotter Pin—Fast Idle Cam Lever
62	P 23985	P 23985	
	No 70	**No 70**	High Speed Bleeder **(VAR)**
63	P 15459	P 15459	Plug—Drive (1/4′)
64	P 24045	P 24045	Vent Tube
65	P 21338	P 21338	Cotter Pin—Pump Stem
66	P 23271	P 23271	Spring Clip—Pump Strainer Screen
67	P 23270	P 23270	Screen—Pump Strainer
68	P 24052	P 24052	Lever—Fast Idle
69	P 16571	P 16571	Nut—Fast Idle Lever Attach
70	P 6668	P 6668	Lockwasher—Fast Idle Lever Attach Nut
71	P 24081	P 24081	Lever—Choke—Manual
72	P 24080	P 24080	Spring—Manual Choke Lever
73	P 24086	P 24086	Tube Holder—Choke
	P 24084	P 24084	Holder
	P 2229	P 2229	Screw—Tube Clamp
	P 2290	P 2290	Nut—Tube Clamp Screw
	P 15875	P 15875	Lockwasher—Tube Calmp Screw Nut
74	P 24087	P 24087	Screw—Choke Tube Holder Attach
75	P 3292	P 3292	Plug—Governor Conn
76	P 15424	P 15424	Lever—Throttle Loose
77	P 16487	P 16487	Stop—Throttle Loose Lever
78	P 24193	P 24193	Lever—Throttle
	P 3199	P 3199	Clamp Screw
79	P 24314	P 24314	Flange Gasket

*Note—For Carbs with Code No 24 145 use the following parts P 24655—No 71 Power By Pass Jet instead of P 23676—No 55 (Key No 7) P 24656—No 28 Main Discharge Jet instead of P 24313—Nos 28 36 (Key No 13) P 24707 Main Body instead of No 382113 (Key No 44)

‡Note—For Carbs with Code No 24 145A and 24 145 use the following parts P 24041 Pump Link instead of P 24836 (Key No 52) P 24042 Pump Rod instead of P 24837 (Key No 47)

BENDIX PRODUCTS DIVISION

SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

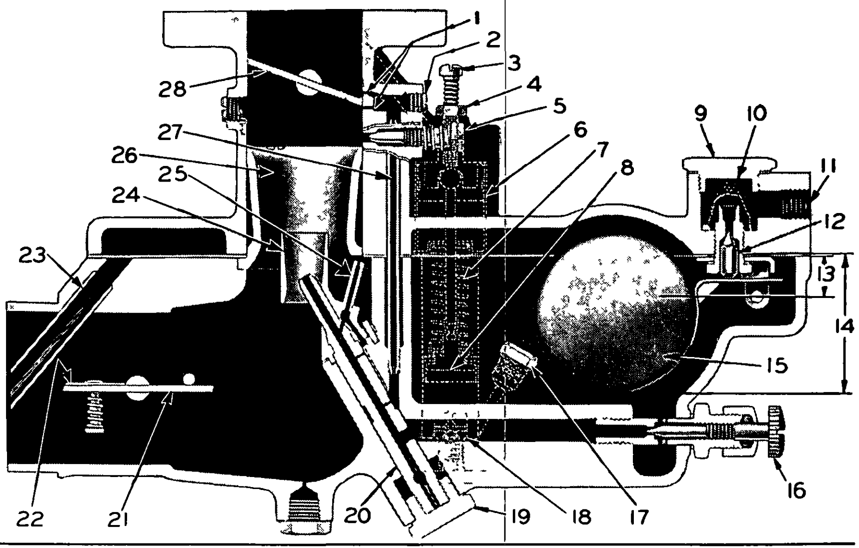
STROMBERG SF-2 CARBURETOR

FOR STROMBERG NUMBER, CODE NUMBER, MANUFACTURER'S SYMBOL NUMBER, ENGINE MODELS
BORE AND STROKE SPECIFICATIONS SEE PARTS PAGE

SIZE 1-1/4" UPDRAFT S.A.E. 2-11/16" FLANGE CENTERS

PARTS ILLUSTRATED

1. Idle Discharge Holes
2. Idle Discharge Plug
3. Pump Adjustment Screw
4. Pump Adjustment Lock Screw
5. Idle Needle Valve
6. Vacuum Piston
7. Accelerating Pump Spring
8. Accelerating Pump Piston
9. Strainer Plug
10. Strainer
11. Gasoline Inlet
12. Float Needle Valve and Seat
13. Fuel Level (see instructions)
14. Float Setting (see instructions)
15. Float
16. Adjustable Metering Jet
17. Check Valve
18. Combination Power and Pump By-Pass Jet
19. Main Discharge Jet Nut
20. Main Discharge Jet
21. Choke Valve
22. Choke Poppet Valve
23. Vent Tube
24. Small Venturi
25. High Speed Bleed
26. Large Venturi
27. Idle Tube
28. Throttle Valve



Main Metering System—

The main metering system controls the flow of the fuel during the intermediate speed of the engine Fuel enters the carburetor through the gasoline inlet (11) into the float chamber. From here the gasoline passes through the metering jet (16) which controls the supply of fuel for the main metering system, to the main discharge jet (20) The main discharge jet delivers the fuel to the small venturi (24) (auxiliary venturi) where it is mixed with air and flows into the carburetor barrel The amount of air used in the mixture is controlled by the large venturi (26) (When replacing main discharge jet use new P-21372 gasket)

Power System—

For maximum power or higher speeds a richer mixture is needed. This is accomplished by the power system During the intermediate speed of the engine sufficient fuel is furnished by the main metering jet However for hard pulls and wide open throttle this supply is not equivalent to the engine demands; therefore another valve comes into operation to supply this extra amount of gasoline needed While the engine runs at a moderate speed a certain amount of manifold vacuum is created. This vacuum holds vacuum piston (6) in an up position but when the throttle is opened above normal to compensate for the extra power that may be needed from the engine the vacuum falls off accordingly and the vacuum piston drops until the pump piston (8), which is directly connected to the vacuum piston, comes in contact with and opens the valve in the by-pass jet (18) The opening of this valve allows an additional amount of gasoline to enter the main discharge jet and enrichens the mixture. This is known as the Power System.

Accelerating System—

As explained above, the vacuum piston of the pump is held in an up position by the manifold vacuum created by the engine On sudden opening of the throttle the vacuum drops off very rapidly and the vacuum piston (6) is released When this occurs accelerating pump spring (7) forces pump piston (8) down which in turn forces a discharge of gasoline to be driven through the by-pass jet (18) and out the main discharge jet This sudden surplus of fuel enrichens the mixture for the moment and furnishes the engine the extra power needed for fast acceleration The amount of discharge can be controlled by the adjustment screw (3). Turn screw IN to lessen, OUT to make greater.

Idle System—

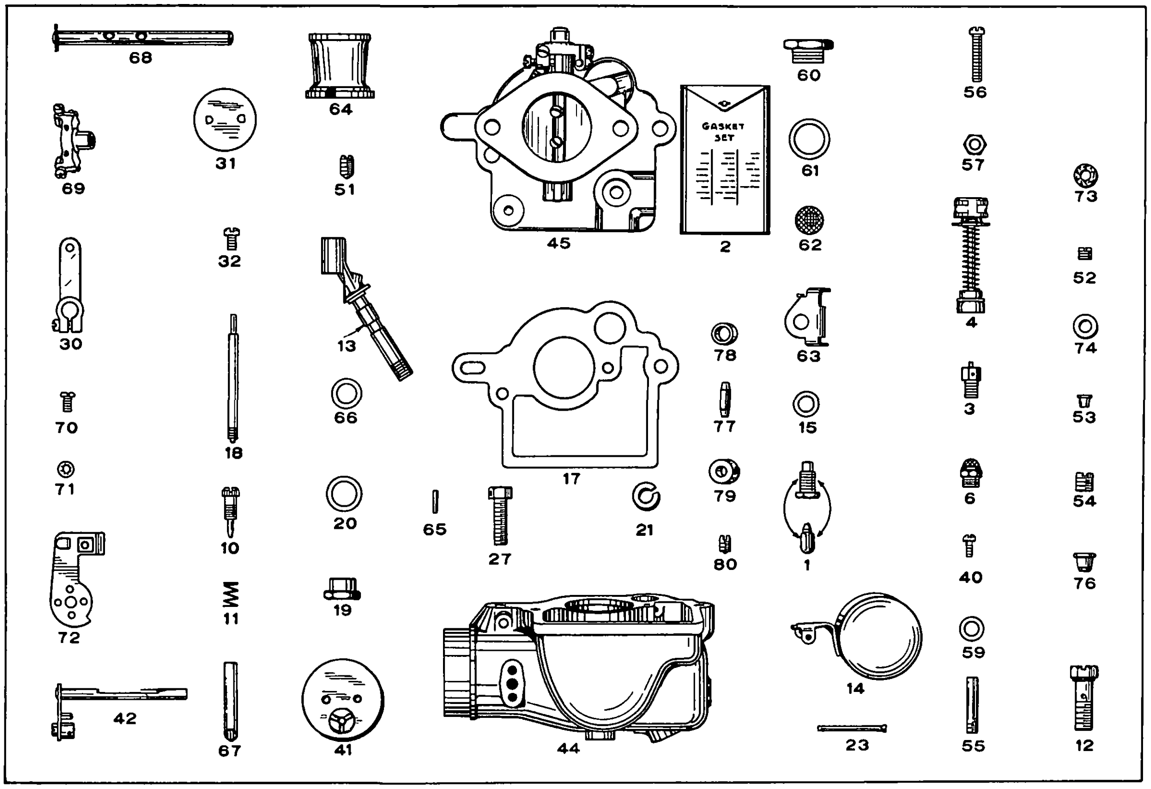
When the throttle valve is closed gasoline is delivered to the engine by means of the idle system of the carburetor. Gasoline is taken up through the idle tube (27) which meters the quantity of fuel for the idle system. It is mixed with air, the amount of which is governed by the idle needle valve (5) and reaches the engine by means of the idle holes (1) and up through the barrel of the carburetor To make the mixture richer turn idle needle valve (5) **IN**, to make mixture leaner screw **OUT.**

Fuel Level—

The gasoline level in the float chamber is properly set at the factory and should not be adjusted unless carburetor has been handled roughly or level has been changed for some other cause For measuring fuel level it is advisable to use an open vessel with a leveled top, large enough to support the throttle valve body and to accommodate the float assembly. Place main body gasket between body and vessel before checking. Connect gas line to inlet in throttle body and allow gas to feed into measuring vessel at the fuel pump pressure until flow is stopped by the closing of the float needle valve Fuel level should measure (see parts page) below top surface of vessel (without gasket) Use standard depth gauge for measuring fuel level. To correct fuel level hold throttle body in inverted position and set float to measure (see parts page) from top of float (14) to gasket surface of throttle body, which will give approximate fuel level.

MOTOR TUNE-UP DATA

Diversification of Equipment makes standard tune-up specifications impossible.



SERVICE REPLACEMENT PARTS LIST

Key No	Part Name	
1	Float Needle Valve and Seat	(NOT VAR)
2	Complete Set of Gaskets	
3	By Pass Jet	(VAR)
4	Pump Piston Link and Spring	
6	Pump Inlet Check Valve	
10	Idle Needle Valve	
11	Spring—Idle Needle Valve	
12	Metering Jet	(VAR)
13	Main Discharge Jet	(VAR)
14	Float	
15	Gasket—Float Needle Valve Seat	
17	Gasket—Main Body	
18	Idle Tube	
19	Nut—Main Discharge Jet	
20	Gasket—Main Discharge Jet Nut	
21	Lockwasher—Main Body Attach	
23	Fulcrum Pin—Float	
27	Screw—Main Body Attach	
30	Throttle Lever	
	Screw—Throttle Lever Clamp	
31	Throttle Valve	
32	Screw—Throttle Valve Attach	
40	Screw—Choke Valve Attach	
41	Choke Valve	
42	Choke Stem	
44	Main Body	
45	Throttle Body (complete with idle holes throttle valve and stem)	(VAR)
51	Set Screw—Vent Tube	
52	Plug—Vacuum Suction Channel	
53	Plug—Pump Channel	
54	Plug—Idle Discharge Channel	
55	High Speed Bleeder	(VAR)
56	Screw—Pump Adj	
57	Nut—Pump Adj Screw	
59	Gasket—Metering Jet	
60	Plug—Strainer	
61	Gasket—Strainer Plug	
62	Strainer—Gas	
63	Hanger—Float	
64	Venturi	(VAR.)
65	Pin—Main Discharge Jet Locating	
66	Gasket—Main Discharge Jet	
67	Vent Tube	
68	Throttle Stem	
69	Throttle Stop	
	Screw—Idle Adj	
	Screw—Idle Adj Screw clamp	
70	Screw—Choke Tube Holder Attach	
71	Lockwasher—Choke Tube Holder Attach Screw	
72	Choke Tube Holder	
	Screw—Choke Tube Clamp	
	Nut—Choke Tube Clamp Screw	
73	Washer—Idle Tube Cork	
74	Washer—Idle Tube	
*75	Plug—Gov Conn	
76	Plug—Idle Drilling Hole	
77	Pin—Choke Stem	
78	Bushing—Choke Lever Spacer	
79	Collar—Choke Stem	
80	Set Screw—Choke Stem Collar	
*81	Throttle Loose Lever	
	Screw—Wire Conn	
*82	Stop—Throttle Loose Lever	
	Screw—Loose Lever Clamp	
	Nut—Loose Lever Clamp Screw	

*Parts Not Illustrated

BENDIX PRODUCTS DIVISION
SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

Printed in U S A

STROMBERG CARBURETOR

Key No.	A-18852 Mack Cont. M6-271 Code No. 24-119C Symbol No. 2EJA38A 3-5/8″ x 4-3/8″—6 cyl	A-18922 Mack 1938 Model "EE" Code No. 24-121C Symbol No. 2EJA124A 3-1/2″ x 4-3/8″—6 cyl.	A-19242 Mack 1938 Mod 1 "EE" Code No. 24-152 Symbol No. 234GB115	A-19252 Mack 1939 Model "EF"-"EFU" Code No. 24-153A Symbol No. 234GBC338-P1 3-5/8″ x 4-3/8″—6 cyl.	380007 Mack 1940 Mod 1 Code No. 24-167 Symbol No. 234GBC338-P2
1	P 17282	P 17282	P 17282	P 17282	P 17282
2	J 4222 G	J 4222 G	J 4222 G	J 4222 G	J 4222 G
3	P-16786— 036″	P 16786—.034″	P 16786— 034″	P 16786— 036″	P 16786—.028″
4	P 23133	P 23133	P 23133	P 23133	P 23133
6	P 23135	P 23135	P 23135	P 23135	P 23135
10	P 15396	P 15396	P 15396	P 15396	P 15396
11	P 12530	P 12530	P 12530	P 12530	P 12530
12	P 15384—.057″	P 15384—.054″	P 15384—.054″	P 15384— 057″	P 15384— 044″
13	P-16773—**No. 32**	P 16773—**No. 32**	P 16773—**No 32**	P 16773—**No. 32**	P 16773—**No. 32**
14	P 16767	P 16767	P 16767	P 16767	P 16767
15	P 11572	P 11572	P 11572	P 11572	P 11572
17	P 16756	P 16756	P 16756	P 16756	P 16756
18	P 23722	P 23722	P 23722	P 23722	P 23722
19	P 16762	P 16762	P 16762	P 16762	P 16762
20	P 5636	P 5636	P 5636	P 5636	P 5636
21	P 6592	P 6592	P 6592	P 6592	P 6592
23	P 16760	P 16760	P 16760	P 16760	P 16760
27	P 16765	P 16765	P 16765	P 16765	P 16765
30	P 23775	P 23775	P 23775	382074	P 23775
	P 3199	P 3199	P 3199	P 3199	P 3199
31	P 16755	P 16755	P 16755	P 16755	P 16755
32	P 16716	P 16716	P 16716	P 16716	P 16716
40	P 16717	P 16717	P 16717	P 16717	P 16717
41	P 22929	P 22929	P 22929	P 22929	P 22929
42	P 22927	P 22927	P 22927	P 22927	P ~~22927~~ 23890
44	P 22884	P 22884	P 24871	P 24871	P 24871
45	P 23776—**Nos** 58-66	P 23776—**Nos** 58-66	P 24870—**Nos** 58-66	P 24870—**Nos**. 58-66	382076—**Nos** 56-60
51	P 14745	P 14745	P 14745	P 14745	P 14745
52	P 7098	P 7098	P 7098	P 7098	P 7098
53	P 15458	P 15458	P 15458	P 15458	P 15458
54	P 12780	P 12780	P 12780	P 12780	P 12780
55	P 16776—**No. 70**	P 16776—**No. 70**	P 16776—**No 70**	P 16776—**No. 70**	P 16776—**No. 70**
56	P 5546	P 5546	P 5546	P 5546	P 5546
57	P 14618	P 14618	P 14618	P 14618	P 14618
59	P 6855	P 6855	P 6855	P 6855	P 6855
60	P 17140	P 17140	P 17140	P 17140	P 17140
61	P 22851	P 22851	P 22851	P 22851	P 22851
62	P 12958	P 12958	P 12958	P 12958	P 12958
63	P 16761	P 16761	P 16761	P 16761	P 16761
64	P 16753—**1-3/16″**	P 16753—1-1/8″	P 16753—**1-1/8″**	P 16753—**1-3/16″**	P 16753—1″
65	P 16850	P 16850	P 16850	P 16850	P 16850
66	P 21372	P 21372	P 21372	P 21372	P 21372
67	P 16757	P 16757	P 16757	P 16757	P 16757
68	P 16793	P 16793	P 24868	P 24868	P 16793
69	P 7041	P 7041	P 7041	P 7041	P 7041
	P 12375	P 12375	P 12375	P 12375	P 12375
	P 2266	P 2266	P 2266	P 2266	P 2266
70	P 14646	P 14646	P 14646	P 14646	P 14646
71	P 15346	P 15346	P 15346	P 15346	P 15346
72	P 12823	P 12823	P 12823	P 12823	P 12823
	P 12868	P 12868	P 12868	P 12868	P 12868
	P 8806	P 8806	P 8806	P 8806	P 8806
73	P 14160	P 14160	P 14160	P 14160	P 14160
74	P 22713	P 22713	P 22713	P 22713	P 22713
*75	P 3292	P 3292	P 3292	P 3292	P 3292
76	P 20454	P 20454	P 20454	P 20454	P 20454
77	P 3881	P 3881	P 3881	P 3881	P 3881
78	P 13828	P 13828	P 13828	P 13828	P 13828
79	P 17081	P 17081	P 17081	P 17081	P 17081
80	P 16161	P 16161	P 16161	P 16161	P 16161
*81			P 19892	P 19892	P 19892
			P 12867	P 12867	P 12867
*82			P 17287	P 17287	P 17287
			P 18769	P 18769	P 18769
			P 18299	P 18299	P 18299
	SETTINGS Fuel Level—9/16′ Fuel Pressure—2 lbs Throttle Valve Location—Lower edge of throttle valve to come 023″ + — 004″ from No 58 idle hole	SETTINGS Fuel Level—9/16′ Fuel Pressure—2 lbs Throttle Valve Location—Lower edge of throttle valve to come 023″ + — 004″ from No 58 idle hole	SETTINGS Fuel Level—9/16″ Fuel Pressure—2 lbs Throttle Valve Location—Lower edge of throttle valve to come 023″ + — 004″ from No 58 idle hole	SETTINGS Fuel Level—9/16″ Fuel Pressure—2 lbs Throttle Valve Location—Lower edge of throttle valve to come 023″ + — 004″ from No 58 idle hole	SETTINGS Fuel Level—9/16′ Fuel Pressure—2 lbs Throttle Valve Location—Lower edge of throttle valve to come 023″ + — 004″ from No 58 idle hole

***Note**—Parts Not Illustrated.

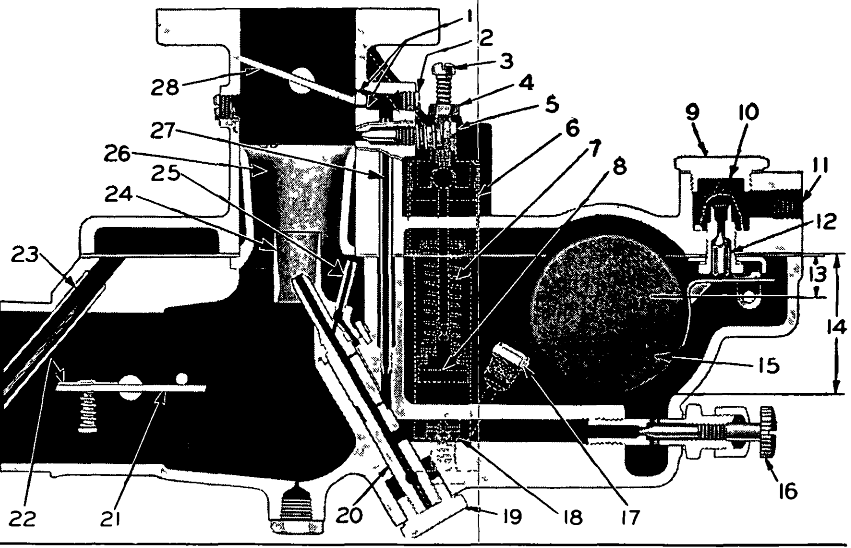
STROMBERG SF-3 CARBURETOR

FOR STROMBERG NUMBER, CODE NUMBER, MANUFACTURER'S SYMBOL NUMBER, ENGINE MODELS, BORE AND STROKE SPECIFICATIONS SEE PARTS PAGE

SIZE· 1-1/2" UPDRAFT S.A.E. 2-15/16" FLANGE CENTER

PARTS ILLUSTRATED

1. Idle Discharge Holes
2. Idle Discharge Plug
3. Pump Adjustment Screw
4. Pump Adjustment Lock Screw
5. Idle Needle Valve
6. Vacuum Piston
7. Accelerating Pump Spring
8. Accelerating Pump Piston
9. Strainer Plug
10. Strainer
11. Gasoline Inlet
12. Float Needle Valve and Seat
13. Fuel Level (see instructions)
14. Float Setting (see instructions)
15. Float
16. Adjustable Metering Jet
17. Check Valve
18. Combination Power and Pump By-Pass Jet
19. Main Discharge Jet Nut
20. Main Discharge Jet
21. Choke Valve
22. Choke Poppet Valve
23. Vent Tube
24. Small Venturi
25. High Speed Bleed
26. Large Venturi
27. Idle Tube
28. Throttle Valve



Main Metering System—

The main metering system controls the flow of the fuel during the intermediate speed of the engine. Fuel enters the carburetor through the gasoline inlet (11) into the float chamber. From here the gasoline passes through the metering jet (16) which controls the supply of fuel for the main metering system, to the main discharge jet (20). The main discharge jet delivers the fuel to the small venturi (24) (auxiliary venturi) where it is mixed with air and flows into the carburetor barrel. The amount of air used in the mixture is controlled by the large venturi (26) (When replacing main discharge jet use new P-21372 gasket.)

Power System—

For maximum power or higher speeds a richer mixture is needed. This is accomplished by the power system. During the intermediate speed of the engine sufficient fuel is furnished by the main metering jet. However for hard pulls and wide open throttle this supply is not equivalent to the engine demands, therefore another valve comes into operation to supply this extra amount of gasoline needed. While the engine runs at a moderate speed a certain amount of manifold vacuum is created. This vacuum holds vacuum piston (6) in an up position but when the throttle is opened above normal to compensate for the extra power that may be needed from the engine the vacuum falls off accordingly and the vacuum piston drops until the pump piston (8), which is directly connected to the vacuum piston, comes in contact with and opens the valve in the by-pass jet (18). The opening of this valve allows an additional amount of gasoline to enter the main discharge jet and enrichens the mixture. This is known as the Power System.

Accelerating System—

As explained above, the vacuum piston of the pump is held in an up position by the manifold vacuum created by the engine. On sudden opening of the throttle the vacuum drops off very rapidly and the vacuum piston (6) is released When this occurs accelerating pump spring (7) forces pump piston (8) down which in turn forces a discharge of gasoline to be driven through the by-pass jet (18) and out the main discharge jet This sudden surplus of fuel enrichens the mixture for the moment and furnishes the engine the extra power needed for fast acceleration. The amount of discharge can be controlled by the adjustment screw (3). Turn screw IN to lessen, OUT to make greater.

Idle System—

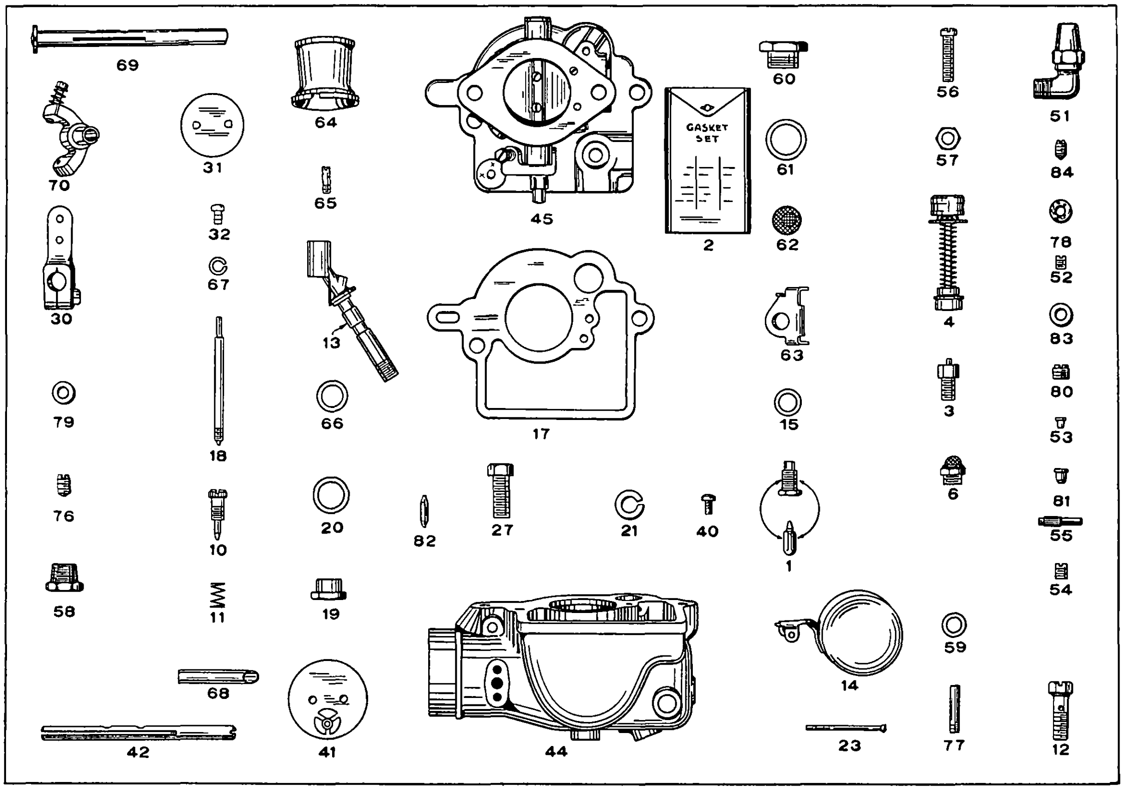
When the throttle valve is closed gasoline is delivered to the engine by means of the idle system of the carburetor. Gasoline is taken up through the idle tube (27) which meters the quantity of fuel for the idle system It is mixed with air, the amount of which is governed by the idle needle valve (5) and reaches the engine by means of the idle holes (1) and up through the barrel of the carburetor. To make the mixture richer turn idle needle valve (5) **IN**, to make mixture leaner screw **OUT.**

Fuel Level—

The gasoline level in the float chamber is properly set at the factory and should not be adjusted unless carburetor has been handled roughly or level has been changed for some other cause. For measuring fuel level it is advisable to use an open vessel with a leveled top, large enough to support the throttle valve body and to accommodate the float assembly Place main body gasket between body and vessel before checking. Connect gas line to inlet in throttle body and allow gas to feed into measuring vessel at the fuel pump pressure until flow is stopped by the closing of the float needle valve Fuel level should measure (see parts page) below top surface of vessel (without gasket) Use standard depth gauge for measuring fuel level To correct fuel level hold throttle body in inverted position and set float to measure (see parts page) from top of float (14) to gasket surface of throttle body, which will give approximate fuel level.

MOTOR TUNE-UP DATA

Diversification of Equipment makes standard tune-up specifications impossible.



SERVICE REPLACEMENT PARTS LIST

Key No.	Part Name	
1	Float Needle Valve and Seat	(NOT VAR)
2	Complete Gasket Set	
3	Pump By Pass Jet	(VAR)
4	Pump Piston Link and Spring	
6	Pump Inlet Check Valve	
10	Idle Needle Valve	
11	Spring—Idle Needle Valve	
12	Metering Jet	(VAR)
13	Main Discharge Jet	(VAR)
14	Float with Lever	
15	Gasket—Float Needle Valve Seat	
17	Gasket—Main Body	
18	Idle Tube	
19	Plug—Main Discharge Jet	
20	Gasket—Main Discharge Jet Plug	
21	Lockwasher—Main Body Attach Screw	
23	Fulcrum Pin—Float Lever	
27	Screw—Main Body Attach	
30	Throttle Lever	
	Screw—Throttle Lever Clamp	
31	Throttle Valve	
32	Screw—Throttle and Choke Valve Attach	
41	Choke Valve	
42	Choke Stem	
44	Assy —Main Body	
45	Assy —Throttle Body (complete with idle holes spark hole throttle stem and valve	(VAR)
51	Gas Union	
52	Plug—Vacuum Suction Channel	
53	Plug—Pump Channel	
54	Plug—Idle Discharge Channel	
55	Pin—Choke Valve Stop	
56	Screw—Vacuum Pump Adj	
57	Nut—Vacuum Pump Adj Screw	
58	Plug—Gas Inlet	
59	Gasket—Metering Jet	
60	Plug—Strainer	
61	Gasket—Strainer Plug	
62	Strainer—Gas	
63	Float Hanger	
64	Venturi	(VAR)
65	Pin—Main Discharge Jet Locating	
66	Gasket—Main Discharge Jet	
67	Lockwasher—Throttle and Choke Valve Attach Screw	
68	Vent Tube	
69	Throttle Stem	
70	Throttle Stop (Complete)	
	Screw—Idle Adj	
	Spring—Idle Adj Screw	
*71	Screw—Choke Tube Holder Attach	
*72	Lockwasher—Choke Tube Holder Attach Screw	
*73	Choke Tube Holder (Complete)	
	Screw—Choke Tube Clamp	
*74	Spring—Choke Valve Return	
*75	Choke Lever	
	Screw—Choke Wire Clamp	
	Screw—Choke Lever Clamp	
76	Set Screw—Vent Tube	
77	High Speed Bleeder	(VAR)
78	Washer—Idle Tube Cork	
79	Washer—Idle Tube	
80	Plug—Vacuum Governor Conn	
81	Plug—Idle Channel	
82	Pin—Choke Stem Separator	
83	Collar—Choke Stem	
84	Set Screw—Choke Stem Collar	
*85	Lever—Loose	
*86	Stop—Loose Lever	
	Screw—Loose Lever Stop	
	Nut—Loose Lever Stop Screw	
*87	Spring—Strainer	

***Note**—Parts Not Illustrated

BENDIX PRODUCTS DIVISION
SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

STROMBERG CARBURETOR

Key No.	A-15313 International BG and BF Truck BG Bus, 50 Fire Eng. Code No. 24-4C Symbol No. 2-BG-316 3-5/8" x 5"—6 cyl.	A-17333 International Model AB Code No. 24-1B Symbol No. 2-AB-3141 4-1/4" x 5"—4 cyl.	A-17353 International Model AC-4, AK-4 Code No. 24-2C Symbol No. 2-AC-3132 5" x 6"—4 cyl.	A-17573 International Code No. 24-3A Symbol No. 2-AC-3128	A-17793 International Model BF Truck Type 50 Fire Engine Code No. 24-67C Symbol No. 2-CU-31 3-7/8" x 5"—6 cyl.
1	P-17282	P-17282	P-17282	P-17282	P-17282
2	J-4221-G	J-4221-G	J-4221-G	J-4221-G	J-4221-G
3	P-16786—.028"	P-16786—.020"	P-16786—.028"	P-16786—.028"	P-16786—.028"
4	P-23129	P-23129	P-23146	P-16856	P-23129
6	P-23135	P-23135	P-23135	P-16990	P-23135
10	P-15396	P-15396	P-15396	P-15396	P-15396
11	P-12530	P-12530	P-12530	P-12530	P-12530
12	P-15384—.062"	P-15384—.049"	P-15384—.056"	P-15384—.054"	P-15384—.065"
13	P-16863—**No. 28**	P-16863—**No. 28**	P-16863—**No. 28**	P-16863—**No. 28**	P-16863—**No. 28**
14	P-22470	P-22470	P-22470	P-16851	P-22470
15	P-11572	P-11572	P-11572	P-11572	P-11572
17	P-16844	P-16844	P-16844	P-16844	P-16844
18	P-22711	P-22711	P-22711	P-22711	P-22711
19	P-16762	P-16762	P-16762	P-16762	P-16762
20	P-5636	P-5636	P-5636	P-5636	P-5636
21	P-5364	P-5364	P-5364	P-5364	P-5364
23	P-16760	P-16760	P-16760	P-16760	P-16760
27	P-16849	P-16849	P-16849	P-16849	P-16849
30	P-20216	P-13498	P-20216	P-13498	P-20216
	P-15817	P-15817	P-15817	P-15817	P-15817
31	P-12251	P-12251	P-12251	P-12251	P-12251
32	P-15259	P-15259	P-15259	P-15259	P-15259
41	P-16859	P-16859	P-16859	P-16859	P-16859
42	P-16868	P-16868	P-16868	P-16868	P-16868
44	P-16843	P-16843	P-16843	P-16843	P-16843
45	382302—**Nos. 58-66**	382303—**Nos. 58-66**	382304—**Nos. 58-66**	382304—**Nos. 58-66**	382302—**Nos. 58-66**
51	P-15278		P-15278	P-15278	P-15278
52	P-7098	P-7098	P-7098	P-7098	P-7098
53	P-15458	P-15458	P-15458	P-15458	P-15458
54	P-12780	P-12780	P-12780	P-12780	P-12780
55	P-16764	P-16764	P-16764	P-16764	P-16764
56	P-19911	P-19911	P-19911	P-19911	P-19911
57	P-14618	P-14618	P-14618	P-14618	P-14618
58		P-3292	P-3292	P-26	
59	P-6855	P-6855	P-6855	P-6855	P-6855
60	P-19995	P-17140	P-17140	P-17140	P-19995
61	P-20235	P-20235	P-20235	P-20235	P-20235
62	P-12958	P-12958	P-12958	P-12958	P-12958
63	P-16761	P-16761	P-16761	P-16761	P-16761
64	P-16845—**1-5/16"**	P-16845—**1-1/8"**	P-16845—**1-3/16"**	P-16845—**1-3/16"**	P-16845—**1-5/16"**
65	P-16850	P-16850	P-16850	P-16850	P-16850
66	P-21372	P-21372	P-21372	P-21372	P-21372
67	P-1693	P-1693	P-1693	P-1693	P-1693
68	P-16848	P-16848	P-16848	P-16848	P-16848
69	P-16866	P-16866	P-16866	P-16866	P-16866
70	P-16795	P-16795	P-18449	P-18449	P-16795
	P-18552	P-18552	P-18552	P-18552	P-18552
	P-15831	P-15831	P-15831	P-15831	P-15831
*71	P-16766	P-16766	P-16766	P-16766	P-16766
*72	P-3157	P-3157	P-3157	P-3157	P-3157
*73	P-19977	P-19977	P-19978	P-19977	P-19977
	P-16807	P-16807	P-16807	P-16807	P-16807
*74	P-16763	P-16763	P-17468	P-16763	P-16763
*75	P-16799	P-16799	P-18786	P-16799	P-16799
	P-13046	P-13046	P-13046	P-13046	P-13046
	P-18927	P-18927	P-3199	P-18927	P-18927
76	P-14745	P-14745	P-14745		P-14745
77	P-14334—**No. 65**	P-14334—**No. 65**	P-14334—**No. 65**	P-14334—**No. 65**	P-14334—**No. 65**
78	P-14160	P-14160	P-14160	P-14160	P-14160
79	P-22713	P-22713	P-22713	P-22713	P-22713
80	P-3292	P-3292	P-3292	P-3292	P-3292
81	P-15459	P-15459	P-15459	P-15459	P-15459
82					
83					
84					
*85					
*86					
*87	P-23143				P-23143
	SETTINGS Fuel Level—31/32" Fuel Pressure—2 lbs. Throttle Valve Location — Lower edge of throttle valve should be Flush + .004"-.000" from No. 58 idle hole.	SETTINGS Fuel Level—31/32". Fuel Pressure—2 lbs. Throttle Valve Location — Lower edge of throttle valve should be Flush + .004"-.000" from No. 58 idle hole.	SETTINGS Fuel Level—31/32". Fuel Pressure—2 lbs. Throttle Valve Location — Lower edge of throttle valve should be Flush + .004"-.000" from No. 58 idle hole.	SETTINGS Fuel Level—7/8". Fuel Pressure—2 lbs. Throttle Valve Location — Lower edge of throttle valve should be Flush + .004"-.000" from No. 58 idle hole.	SETTINGS Fuel Level—31/32". Fuel Pressure—2 lbs. Throttle Valve Location — Lower edge of throttle valve should be Flush + .004"-.000" from No. 58 idle hole.

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*Parts not illustrated.

Key No	A-17803 International Model CW Bus Code No 24-100B Symbol No 2-BG-221A 3-5/8″ x 5″—6 cyl.	A-17813 International Mod 1 BF Truck Code No 24-69C Symbol No 2-CU-31A 3-7/8″ x 5″—6 cyl	A-17823 International BG Truck and Bus Code No. 24-70C Symbol No 2-BG-316B 3-5/8′ x 5′—6 cyl	A-17833 International 36 Model CW Bus Code No 24-66C Symbol No. 2-CU-21A 3-7/8″ x 5″—6 cyl	A-17873 International Model AB Truck Code No. 24-101B Symbol No 2-AB-3141A 4-1/4″ x 5″—4 cyl.
1	P 17282	P 17282	P 17282	P 17282	P 17282
2	J 4221 G	J 4221 G	J 4221 G	J 4221 G	J 4221 G
3	P 16786— **028″**	P 16786— **028′**	P 16786— **028′**	P 16786— **028′**	P 16786— **020″**
4	P 23129	P 23129	P 23129	P 23129	P 23129
6	P 23135	P 23135	P 23135	P 23135	P 23135
10	P 15396	P 15396	P 15396	P 15396	P 15396
11	P 12530	P 12530	P 12530	P 12530	P 12530
12	P 15384— **059″**	P 15384— **065′**	P 15384— **062′**	P 15384— **060′**	P 15384—**.049″**
13	P 16863—**No 28**	P 16863—**No 28**	P 16863—**No 28**	P 16863—**No 28**	P 16863—**No 28**
14	P 22470	P 22470	P 22470	P 22470	P 22470
15	P 11572	P 11572	P 11572	P 11572	P 11572
17	P 16844	P 16844	P 16844	P 16844	P 16844
18	P 22711	P 22711	P 22711	P 22711	P 22711
19	P 16762	P 16762	P 16762	P 16762	P 16762
20	P 5636	P 5636	P 5636	P 5636	P 5636
21	P 5634	P 5364	P 5634	P 5364	P 5364
23	P 16760	P 16760	P 16760	P 16760	P 16760
27	P 16849	P 16849	P 16849	P 16849	P 16849
30	P 13498	P 13498	P 13498	P 13498	P 13498
	P 15817	P 15817	P 15817	P 15817	P 15817
31	P 12251	P 12251	P 12251	P 12251	P 12251
32	P 15259	P 15259	P 15259	P 15259	P 15259
41	P 21758	P 21758	P 21758	P 21758	P 21758
42	P 21756	P 21756	P 21756	P 21756	P 22750
44	P 23155	P 23154	P 23154	P 23155	P 21673
45	382302—**Nos 58-66**	382302—**Nos 58-66**	382302—**Nos 58-66**	382302—**Nos 58-66**	382303—**Nos 58-66**
51	P 15278	P 15278	P 15278	P 15278	
52	P 7098	P 7098	P 7098	P 7098	P 7098
53	P 15458	P 15458	P 15458	P 15458	P 15458
54	P 12780	P 12780	P 12780	P 12780	P 12780
55	P 16764	P 16764	P 16764	P 16764	P 16764
56	P 19911	P 19911	P 19911	P 19911	P 19911
57	P 14618	P 14618	P 14618	P 14618	P 14618
58					
59	P 6855	P 6855	P 6855	P 6855	P 6855
60	P 19995	P 19995	P 19995	P 19995	P 17140
61	P 20235	P 20235	P 20235	P 20235	P 20235
62	P 12958	P 12958	P 12958	P 12958	P 12958
63	P 16761	P 16761	P 16761	P 16761	P 16761
64	P 16845—**1-5/16′**	P 16845—**1-5/16′**	P 16845—**1-5/16′**	P 16845—**1-5/16″**	P 16845—**1-1/8′**
65	P 16850	P 16850	P 16850	P 16850	P 16850
66	P 21372	P 21372	P 21372	P 21372	P 21372
67	P 1693	P 1693	P 1693	P 1693	P 1693
68	P 16848	P 16848	P 16848	P 16848	P 16848
69	P 16866	P 16866	P 16866	P 16866	P 16866
70	P 18449	P 16795	P 16795	P 18449	P 16795
	P 18552	P 18552	P 18552	P 18552	P 18552
	P 15831	P 15831	P 15831	P 15831	P 15831
*71		P 16766	P 16766		P 16766
*72		P 3157	P 3157		P 3157
*73		P 19977	P 19977		P 19977
		P 16807	P 16807		P 16807
*74		P 16763	P 16763		P 16763
*75		P 16799	P 16799		P 16799
		P 13046	P 13046		P 13046
		P 18927	P 18927		P 18927
76	P 14745	P 14745	P 14745	P 14745	P 14745
77	P 14334—**No 65**	P 14334—**No 65**	P 14334—**No 65**	P 14334—**No 65**	P 14334—**No 65**
78	P 14160	P 14160	P 14160	P 14160	P 14160
79	P 22713	P 22713	P 22713	P 22713	P 22713
80	P 3292	P 3292	P 3292	P 3292	P 3292
81	P 15459	P 15459	P 15459	P 15459	P 15459
82	P 3881	P 3881	P 3881	P 3881	
83	P 19901	P 19901	P 19901	P 19901	
84	P 16161	P 16161	P 16161	P 16161	
*85					
*86					
*87	P 23143	P 23143	P 23143	P 23143	
	SETTINGS Fuel Level—31/32 Fuel Pressure—2 lbs Throttle Valve Location — Lower edge of throttle valve should be Flush + 004 000′ from No 58 idle hole	SETTINGS Fuel Level—31/32 Fuel Pressure—2 lbs Throttle Valve Location — Lower edge of throttle valve should be Flush + 004 000′ from No 58 idle hole	SETTINGS Fuel Level—31/32 Fuel Pressure—2 lbs Throttle Valve Location — Lower edge of throttle valve should be Flush + 004 000′ from No 58 idle hole	SETTINGS Fuel Level—31/32 Fuel Pressure—2 lbs Throttle Valve Location — Lower edge of throttle valve should be Flush + 004 000 from No 58 idle hole	SETTINGS Fuel Level—31/32 Fuel Pressure—2 lbs Throttle Valve Location — Lower edge of throttle valve should be Flush + 004″ 000′ from No 58 idle hole

*Parts not illustrated

Printed in U S A

Key No.	A-18053 Mack Model 1938 Truck Code No. 24-125B Sym. No. 234-GB-310 3-3/4″ x 4-3/8″—6 cyl.	A-18203 Int rnational Mod ls EH, EHU, EM, EMU, EC Code No. 24-140A Sym. No. 234GB311 3-5/8″ x 5″—6 cyl.	A-18223 International Models BF, EQ, EQU, Truck Cod No. 24-143A Sym. No. 234GB314 3-7/8″ x 5″—6 cyl.	A-18253 Mack Model 1939 Truck Code No. 24-151 Sym. No. 234GB339 3-3/4″ x 4-3/8″—6 cyl.	A-18273 International Model BG Engine Code No. 24-161 Sym. No. 234GB347 3-5/8″ x 5″—6 cyl.
1	P-17282	P-17282	P-17282	P-17282	P-17282
2	J-4221-G	J-4221-G	J-4221-G	J-4221-G	J-4221-G
3	P-16786—.040″	P-16786—.028″	P-16786—.028″	P-16786—.040″	P-16786—.034″
4	P-23129	P-23129	P-23129	P-23129	P-23129
6	P-23135	P-23135	P-23135	P-23135	P-23135
10	P-15396	P-15396	P-15396	P-15396	P-15396
11	P-12530	P-12530	P-12530	P-12530	P-12530
12	P-15384—.058″	P-15384—.062″	P-15384—.065″	P-15384—.058″	P-15384—.060″
13	P-16863—No. 28	P-16863—No. 28	P-16863—No. 28	P-16863—No. 28	P-16863—No. 28
14	P-16851	P-22470	P-22470	P-16851	P-22470
15	P-11572	P-11572	P-11572	P-11572	P-11572
17	P-16844	P-16844	P-16844	P-16844	P-16844
18	P-22711	P-22711	P-22711	P-22711	P-22711
19	P-16762	P-16762	P-16762	P-16762	P-16762
20	P-5636	P-5636	P-5636	P-5636	P-5636
21	P-5364	P-5364	P-5364	P-5364	P-5364
23	P-16760	P-16760	P-16760	P-16760	P-16760
27	P-16849	P-16849	P-16849	P-16849	P-16849
30	P-20216	P-13498	P-13498	P-20216	P-13498
	P-15817	P-15817	P-15817	P-15817	P-15817
31	P-12251	P-12251	P-12251	P-12251	P-12251
32	P-15259	P-15259	P-15259	P-15259	P-15259
41	P-19898	P-21758	P-21758	P-19898	P-21758
42	P-22750	P-21756	P-21756	P-21750	P-21756
44	P-19903	P-23154	P-24573	P-24847	P-24573
45	382305—Nos. 58-66	382306—Nos. 58-66	P-24574—Nos. 58-66	P-24862—Nos. 58-66	P-24867—Nos. 58-66
51		P-15278	P-15278		P-15278
52	P-7098	P-7098	P-7098	P-7098	P-7098
53	P-15458	P-15458	P-15458	P-15458	P-15458
54	P-12780	P-12780	P-12780	P-12780	P-12780
55	P-16764	P-16764	P-16764	P-16764	P-16764
56	P-19911	P-19911	P-19911	P-19911	P-19911
57	P-14618	P-14618	P-14618	P-14618	P-14618
58					
59	P-6855	P-6855	P-6855	P-6855	P-6855
60	P-17140	P-19995	P-19995	P-17140	P-19995
61	P-20235	P-20235	P-20235	P-20235	P-20235
62	P-12958	P-12958	P-12958	P-12958	P-12958
63	P-16761	P-16761	P-16761	P-16761	P-16761
64	P-16845—1-1/4″	P-16845—1-5/16″	P-16845—1-5/16″	P-16895—1-1/4″	P-16845—1-5/16″
65	P-16850	P-16850	P-16850	P-16850	P-16850
66	P-21372	P-21372	P-21372	P-21372	P-21372
67	P-1693	P-1693	P-1693	P-1693	P-1693
68	P-16848	P-16848	P-16848	P-16848	P-16848
69	P-16866	P-16866	P-16866	P-21592	P-17801
70	P-18449	P-16795	P-16795	P-18449	P-16795
	P-18552	P-18552	P-18552	P-18552	P-18552
	P-15831	P-15831	P-15831	P-15831	P-15831
*71	P-16766	P-16766	P-16766	P-16766	P-16766
*72	P-3157	P-3157	P-3157	P-3157	P-3157
*73	P-19977	P-19977	P-19977	P-19977	P-19977
	P-16807	P-16807	P-16807	P-16807	P-16807
*74	P-16763	P-16763	P-16763	P-16763	P-16763
*75	P-16799	P-16799	P-16799	P-16799	P-16799
	P-13046	P-13046	P-13046	P-13046	P-13046
	P-18927	P-18927	P-18927	P-18927	P-18927
76	P-14745	P-14745	P-14745	P-14745	P-14745
77	P-14334—No. 65	P-14334—No. 65	P-14334—No. 65	P-14334—No. 65	P-14334—N . 65
78	P-14160	P-14160	P-14160	P-14160	P-14160
79	P-22713	P-22713	P-22713	P-22713	P-22713
80	P-3292	P-3292	P-3292	P-3292	P-3292
81	P-20454	P-20454	P-20454	P-20454	P-20454
82	P-3881	P-3881	P-3881	P-3881	P-3881
83		P-19901	P-19901		P-19901
84		P-16161	P-16161		P-16161
*85				P-19892	P-19892
*86				P-17287	P-17287
				P-18769	P-18764
				P-18299	P-18299
*87		P-23143	P-23143		P-23143
	SETTINGS Fuel Level—7/8″. Fuel Pressure—2 lbs. Throttle Valve Location—Lower edge of throttle valve should be from .019″ to .027″ above No. 58 idle hole. No. 60 spark holes should be Flush with lower edge of valve.	SETTINGS Fuel Level—31/32″. Fuel Pressure—2 lbs. Throttle Valve Location—Lower edge of throttle valve should be from .006″ to .014″ above No. 58 idle hole. No. 56 spark hole should come .036″ to .044″ from lower edge of throttle valve.	SETTINGS Fuel Level—31/32″. Fuel Pressure—2 lbs. Throttle Valve Location—Lower edge of throttle valve should be from .006″ to .014″ above No. 58 idle hole. No. 56 spark hole should come .036″ to .044″ from lower edge of throttle valve.	SETTINGS Fuel Level—7/8″. Fuel Pressure—2 lbs. Throttle Valve Location—Lower edge of throttle valve should be from .019″ to .027″ above No. 58 idle hole. No. 60 spark hole should be Flush with lower edge of throttle valve	SETTINGS Fuel Level—31/32″. Fuel Pressure—2 lbs. Throttle Valve Location—Lower edge of throttle valve should be Flush — + .004″ from No. 58 idle hole. No. 56 spark hole should come .036″ to .044″ from lower edge of throttle valve.

*Parts not illustrated.

STROMBERG SFM-35 CARBURETOR

STROMBERG NO. A-18213 (CODE NO. 24-142A) MACK SYMBOL NO. 234GB320

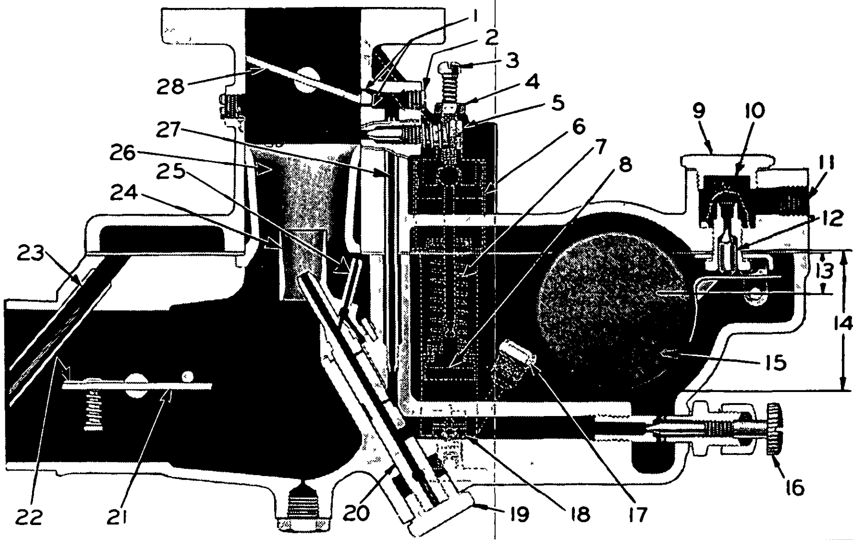
SIZE: 1-1/2″ UPDRAFT S.A.E. 2-15/16″ FLANGE CENTERS TAPPED 3/8-16

MACK
Model
"FK"

3-3/4″ x 4-3/8″—6 cyl.

PARTS ILLUSTRATED

1. Idle Discharge Holes
2. Idle Discharge Plug
3. Pump Adjustment Screw
4. Pump Adjustment Lock Screw
5. Idle Needle Valve
6. Vacuum Piston
7. Accelerating Pump Spring
8. Accelerating Pump Piston
9. Strainer Plug
10. Strainer
11. Gasoline Inlet
12. Float Needle Valve and Seat
13. Fuel Level (see instructions)
14. Float Setting (see instructions)
15. Float
16. Adjustable Metering Jet
17. Check Valve
18. Combination Power and Pump By-Pass Jet
19. Main Discharge Jet Nut
20. Main Discharge Jet
21. Choke Valve
22. Choke Poppet Valve
23. Vent Tube
24. Small Venturi
25. High Speed Bleed
26. Large Venturi
27. Idle Tube
28. Throttle Valve



Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—For measuring fuel level it is advisable to use on open vessel with a leveled top, large enough to support the throttle valve body and to accommodate the float assembly. Place main body gasket between body and vessel before checking. Connect gas line to inlet in throttle body and allow gas to feed into measuring vessel at Fuel Pump pressure until flow is stopped by the closing of the float needle valve. Fuel level should measure **7/8″** below top surface of vessel (without gasket); use standard depth gauge for measuring fuel level. To correct fuel level hold throttle body in inverted position and set float to measure **2-17/64″** from top of float to gasket surface which will give approximate fuel level; change if necessary.

MAIN METERING SYSTEM — Venturi **1-3/16″**, P-16845; Main Discharge Jet **No. 28**, P-16863; (**Tool T-20180** used to remove main discharge jet plug). High Speed Bleeder **No. 65** P-14334; Main Metering Jet **.048″** P-15384, (**Tool T-20139**). (Use new **P-21372** main discharge jet gasket when replacing main discharge jet).

POWER SYSTEM—Combination Power and Pump By-Pass Jet **.028″** P-16786 (**Tool T-20138**); Power System is brought into operation at **4″** to **6″** of manifold vacuum. Use **Tool T-23785** to remove pump inlet check valve.

ACCELERATION—Pump stroke adjusted by adjustment screw above pump vacuum piston. Screw "in" to shorten stroke, "out" to lengthen. Adjustment screw to be set **1/8″** below top surface of throttle body flange.

IDLE SYSTEM—Idle discharge holes **Nos. 58-66.** With throttle valve fully closed the lower idle hole should be open from a **No. 70** to **No. 77** drill. Idle tube **No. 72** P-22711; Adjust to smooth running, IN to make richer, OUT to make leaner.

VACUUM SPARK CONTROL—With throttle fully closed and **No. 60** drill in spark hole, edge of valve is located **Flush** from **No. 60** drill.

THERMOSTAT SETTING—Set Thermostat **12** notches rich.

DEFLOODER SETTING—With throttle valve held in wide open position, choke valve should be open from **.267″** (17/64″ drill) to **.295″** (19/64″ drill) for carburetors with flatted choke stem, and from .292″ (19/64″ drill) to .320″ (21/64″ drill) for carburetors with slotted choke stem.

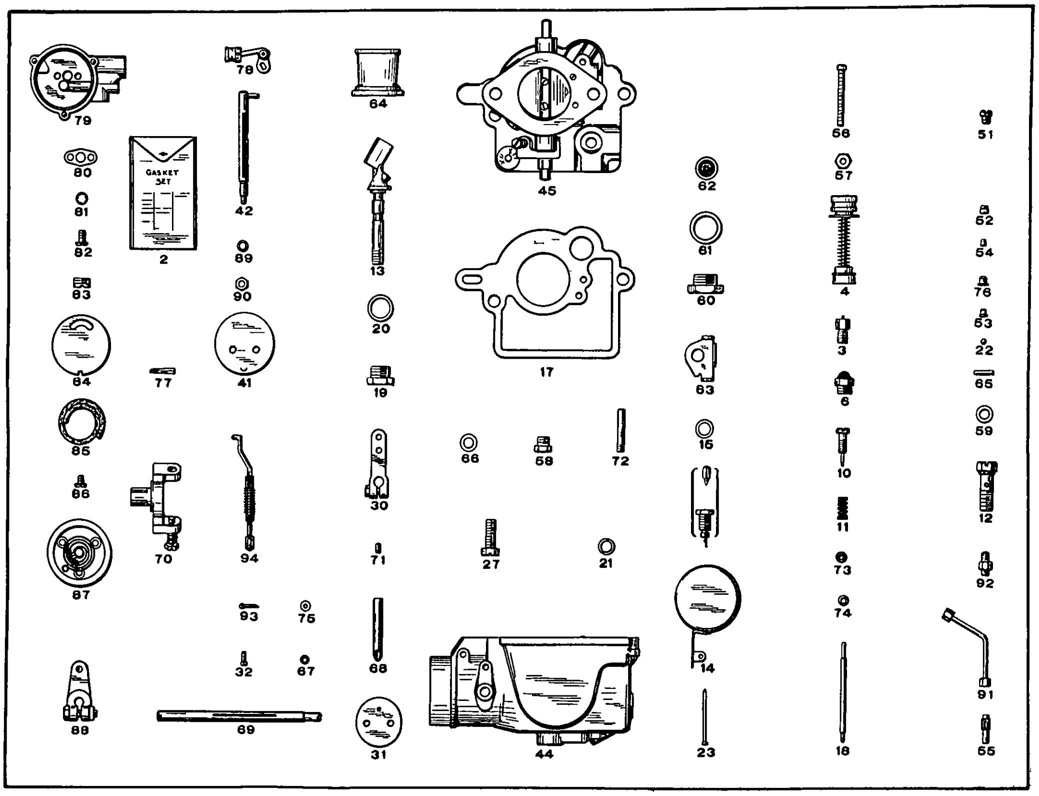
FLANGE GASKET—P-24136.

SPECIAL TOOLS REQUIRED—T-20139 Main Disch. and Metering Jet; T-20138 By-Pass jet socket wrench; T-20180 Main Disch. Jet plug socket wrench; T-23785 Check valve socket wrench; T-20182 Bushing and vent tube remover; T-24972 Pump Burette gauge. T-20140 Socket Wrench, Float Needle Valve Seat.

MOTOR TUNE-UP DATA

Diversification of Equipment makes standard tune-up specifications impossible.

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Key No	Part No	Part Name	
1	P 17282	Float Needle Valve and Seat—113	**(NOT VAR)**
2	J 4417 G	Complete Gasket Set	
3	P 16786	By Pass Jet **028″**	**(VAR)**
4	P 23129	Pump Piston	
6	P 23135	Pump Inlet Check	
10	P 15396	Idle Needle Valve	
11	P 12530	Spring—Idle Needle Valve	
12	P 15384	Metering Jet **048′**	**(VAR)**
13	P 16863	Main Discharge Jet **No 28**	**(VAR)**
14	P 16851	Float	
15	P 11572	Gasket—Float Needle Valve and Seat	
17	P 18891	Gasket—Main Body	
18	P 22711	Idle Tube	
19	P 16762	Nut—Main Discharge Jet	
20	P 5636	Gasket—Main Discharge Jet Nut	
21	P 5364	Lockwasher—Main Body Attach Screw	
23	P 16760	Fulcrum Pin	
27	P 16849	Screw—Main Body Attach	
30	P 20216	Throttle Lever	
	P 15817	Screw—Throttle Lever Clamp	
31	P 12251	Throttle Valve	
32	P 15259	Screw—Throttle and Choke Valve Attach	
41	P 24430	Choke Valve	
42	P 24123	Choke Stem	
44	P 24506	Main Body	
45	P 24508	Throttle Body **Nos 58-66** idle holes **No 60** spark hole (compt with throttle valve & stem)	**(VAR)**
51	P 16179	Reducer—Drain By Pass **No 58**	**(VAR)**
52	P 12780	Plug—Idle Discharge Holes	
53	P 15458	Plug—Pump Discharge Channel	
54	P 7098	Plug—Vac Suct Channel	
55	P 16764	Pin—Choke Valve Stop	
56	P 19911	Screw—Vacuum Pump Adj	
57	P 14618	Nut—Vacuum Pump Adj Screw	
58	P 26	Plug—Drain—1/8 Pipe	
59	P 6855	Gasket—Metering Jet	
60	P 17140	Plug—Strainer	
61	P 20235	Gasket—Strainer Plug	
62	P 12958	Strainer—Gas	
63	P 16761	Hanger—Float	
64	P 16845	Venturi **1-3/16″**	**(VAR)**
65	P 16850	Pin—Main Discharge Jet Locat	
66	P 21372	Gasket—Main Discharge Jet.	
67	P 1693	Lockwasher—Throt and Ch Valve Attach Screw	
68	P 16848	Vent Tube	
69	P 24509	Throttle Stem	
70	P 18449	Throttle Stop	
	P 18552	Screw—Idle Adj	
	P 15831	Spring—Idle Adj Screw	
71	P 14745	Set Screw—Vent Tube	
72	P 14334	H S Bleeder **No 65**	**(VAR)**
73	P 14160	Washer—Cork—Idle Tube	
74	P 22713	Washer—Idle Tube	
75	P 24179	Washer—Electric Unit Attach Screw	
76	P 20454	Plug—Idle Drilling Hole	
77	P 17187	Pin—Throttle Stop	
78	P 24113	Vac Piston and Link	
79	P 24110	Housing—Thermostat	
80	P 23410	Gasket—Thermostat Housing	
81	P 15346	Lockwasher—Therm Hous Attach Screw	
82	P 23122	Screw—Thermostat Housing Attach	
83	P 23158	Plug—Vac Pist Chan 1/2 24	
84	P 23051	Plate—Baffle	
85	P 23052	Insulator—Elect Unit	
86	P 21596	Screw—Elect Unit Attach	
87	P 23431	Thermostat Elect Unit	
88	P 17048	Wide Open Kick Lever	
89	P 15875	Lockwasher—Vac Pist Lever Nut	
90	P 16571	Nut—Vac Pist Lever	
91	P 23397	Vacuum Tube	
92	P 23370	Nipple—Vacuum Tube	
93	P 7170	Cotter Pin—Kick Rod	
94	P 24510	Choke Valve Kick Rod	

BENDIX PRODUCTS DIVISION

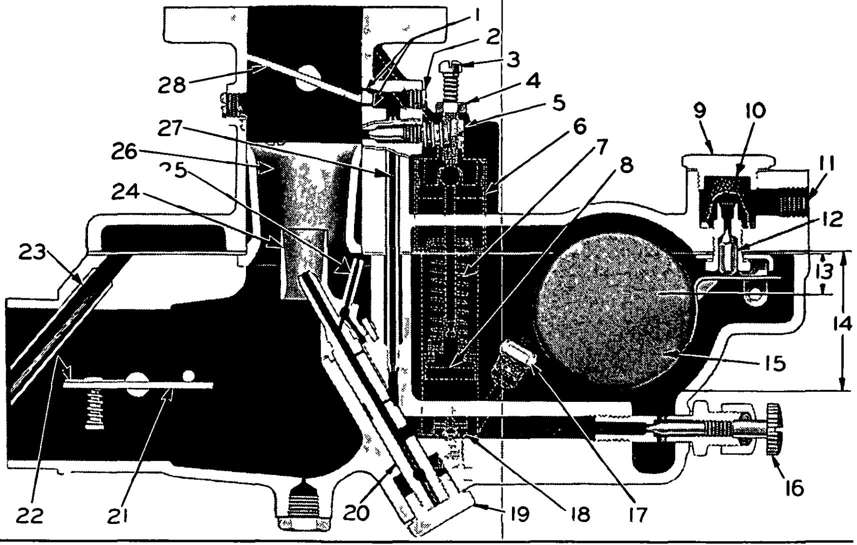
SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

STROMBERG SF-4 CARBURETOR

FOR STROMBERG NUMBER, CODE NUMBER, MANUFACTURER'S SYMBOL NUMBER, MODEL AND BORE AND STROKE INFORMATION SEE PARTS PAGE

PARTS ILLUSTRATED

1. Idle Discharge Holes
2. Idle Discharge Plug
3. Pump Adjustment Screw
4. Pump Adjustment Lock Screw
5. Idle Needle Valve
6. Vacuum Piston
7. Accelerating Pump Spring
8. Accelerating Pump Piston
9. Strainer Plug
10. Strainer
11. Gasoline Inlet
12. Float Needle Valve and Seat
13. Fuel Level (see instructions)
14. Float Setting (see instructions)
15. Float
16. Adjustable Metering Jet
17. Check Valve
18. Combination Power and Pump By Pass Jet
19. Main Discharge Jet Nut
20. Main Discharge Jet
21. Choke Valve
22. Choke Poppet Valve
23. Vent Tube
24. Small Venturi
25. High Speed Bleed
26. Large Venturi
27. Idle Tube
28. Throttle Valve



Main Metering System—

The main metering system controls the flow of the fuel during the intermediate speed of the engine Fuel enters the carburetor through the gasoline inlet (11) into the float chamber From here the gasoline passes through the metering jet (16) which controls the supply of fuel for the main metering system to the main discharge jet (20) The main discharge jet delivers the fuel to the small venturi (24) (auxiliary venturi) where it is mixed with air and flows into the carburetor barrel The amount of air used in the mixture is controlled by the large venturi (26)

Power System—

(When replacing main discharge jet use new P 21372 gasket) For maximum power or higher speeds a richer mixture is needed This is accomplished by the power system During the intermediate speed of the engine sufficient fuel is furnished by the main metering jet However for hard pulls and wide open throttle this supply is not equivalent to the engine demands, therefore another valve comes into operation to supply this extra amount of gasoline needed While the engine runs at a moderate speed a certain amount of manifold vacuum is created This vacuum holds vacuum piston (6) in an up position but when the throttle is opened above normal to compensate for the extra power that may be needed from the engine the vacuum falls off accordingly and the vacuum piston drops until the pump piston (8) which is directly connected to the vacuum piston comes in contact with and opens the valve in the by pass jet (18) The opening of this valve allows an additional amount of gasoline to enter the main discharge jet and enrichens the mixture This is known as the Power System

Accelerating System—

As explained above the vacuum piston of the pump is held in an up position by the manifold vacuum created by the engine On sudden opening of the throttle the vacuum drops off very rapidly and the vacuum piston (6) is released When this occurs accelerating pump spring (7) forces pump piston (8) down which in turn forces a discharge of gasoline to be driven through the by pass jet (18) and out the main discharge jet This sudden surplus of fuel enrichens the mixture for the moment and furnishes the engine the extra power needed for fast acceleration The amount of discharge can be controlled by the adjustment screw (3) Turn screw IN to lessen, OUT to make greater

Idle System—

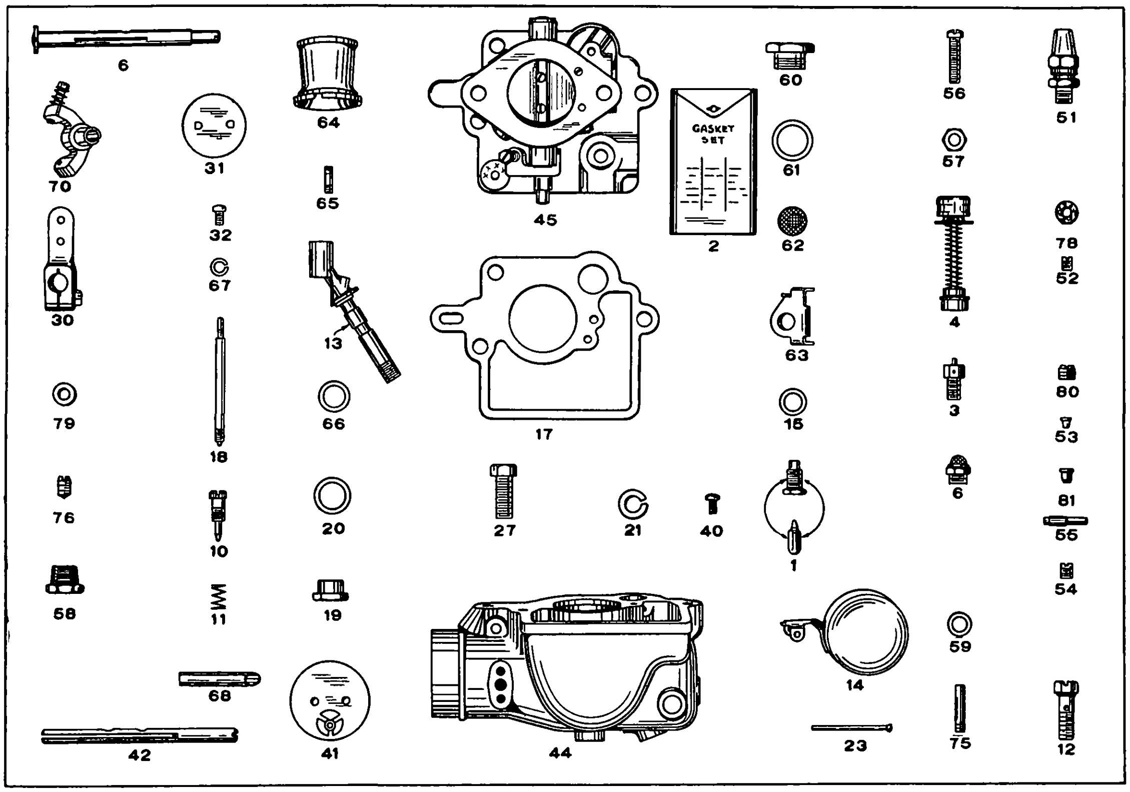
When the throttle valve is closed gasoline is delivered to the engine by means of the idle system of the carburetor Gasoline is taken up through the idle tube (27) which meters the quantity of fuel for the idle system It is mixed with air, the amount of which is governed by the idle needle valve (5) and reaches the engine by means of the idle holes (1) and up through the barrel of the carburetor To make the mixture richer turn idle needle valve (5) **IN**, to make mixture leaner screw **OUT.**

Fuel Level—

The gasoline level in the float chamber is properly set at the factory and should not be adjusted unless carburetor has been handled roughly or level has been changed for some other cause For measuring fuel level it is advisable to use an open vessel with a leveled top large enough to support the throttle valve body and to accommodate the float assembly Place main body gasket between body and vessel before checking Connect gas line to inlet in throttle body and allow gas to feed into measuring vessel at the fuel pump pressure until flow is stopped by the closing of the float needle valve Fuel level should measure (see parts page) below top surface of vessel (without gasket) Use standard depth gauge for measuring fuel level To correct fuel level hold throttle body in inverted position and set float to measure (see parts page) from top of float (14) to gasket surface of throttle body which will give approximate fuel level

MOTOR TUNE-UP DATA

Diversification of Equipment makes standard tune-up specifications impossible.



SERVICE REPLACEMENT PARTS LIST

Key No	Part Name	
1	Float Needle Valve and Seat	(NOT VAR)
2	Complete Gasket Set	
3	Pump By Pass Jet	(VAR)
4	Pump Piston	
6	Pump Inlet Check Valve	
10	Idle Needle Valve	
11	Spring—Idle Needle Valve	
12	Metering Jet	(VAR)
13	Main Discharge Jet	(VAR)
14	Float	
15	Gasket—Float Needle Valve Seat	
17	Gasket—Main Body	
18	Idle Tube	
19	Nut—Main Discharge Jet	
20	Gasket—Main Discharge Jet Nut	
21	Lockwasher—Main Body Attach Screw	
*22	Lead Ball	
23	Fulcrum Pin—Float	
27	Screw—Main Body Attach	
30	Throttle Lever	
	Screw—Throttle Lever Clamp	
31	Throttle Valve	
32	Screw—Throttle Valve Attach	
41	Choke Valve	
42	Choke Stem	
44	Main Body	
45	Throttle Body (Complete with Idle holes Throttle valve Throttle stem and stop)	(VAR)
51	Union	
52	Plug—Vacuum Suction Channel	
53	Plug—Drive	
54	Plug—Idle Discharge Holes	
55	Pin—Choke Valve Stop	
56	Screw—Vacuum Pump Adj	
57	Nut—Vacuum Pump Adj Screw	
58	Plug—Gas Inlet	

Key No	Part Name	
59	Gasket—Metering Jet	
60	Plug—Strainer	
61	Gasket—Strainer Plug	
62	Strainer—Gasoline	
63	Hanger—Float	
64	Venturi	(VAR)
65	Pin—Main Jet Location	
66	Gasket—Main Discharge Jet	
67	Lockwasher—Valve Screw	
68	Vent Tube	
69	Throttle Stem	
70	Throttle Stop	
	Screw—Idle Adj	
	Spring—Idle Adj Screw	
*71	Screw—Tube Holder Attach	
*72	Lockwasher—Tube Holder Attach Screw	
*73	Tube Holder	
	Screw—Holder Clamp	
*74	Spring—Choke Valve Return	
75	High Speed Bleeder	(VAR)
76	Set Screw—Vent Tube	
*77	Choke Lever	
	Screw—Wire Conn	
	Screw—Lever Clamp	
78	Washer—Idle Tube Cork	
79	Washer—Idle Tube	
80	Plug—Governor Conn	
81	Plug—Idle Discharge Drilling Hole	
*82	Spring—Strainer	
*83	Loose Lever—Throttle	
	Screw—Wire Conn	
*84	Stop—Loose Lever	
	Screw—Stop Clamp	
	Nut—Stop Clamp Screw	

***Note**—Parts Not Illustrated

BENDIX PRODUCTS DIVISION
SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

STROMBERG CARBURETOR

Key No.	A-15314 Int rnational CL Bus, BX Tract. Type 70 Fire App. Code No. 24-10E Symbol No. 2-BX-33 4-1/4″ x 5-1/2″—6 cyl.	A-17544 International CL and CX Bus Code No. 24-13E Symbol No. 2-CF-35 4-1/4″ x 5-1/2″—6 cyl.	A-17554 International BM Truck Code No. 24-11E Symbol No. 2-CF-35 4″ x 5-1/2″—6 cyl.	A-17564 International BX Truck Cod No. 24-14E Symbol No. 2-CF-37 4-1/4″ x 5-1/2″—6 cyl.	A-17574 International AC Truck Code N . 24-8C Symbol No. 2-BQ-312 4-3/4″ x 5-3/4″—6 cyl.
1	P-18811	P-18811	P-18811	P-18811	P-18811
2	J-4270-G	J-4270-G	J-4270-G	J-4270-G	J-4270-G
3	P-16786—.044″	P-16786—.044″	P-16786—.034″	P-16786—.044″	P-16786—.048″
4	P-23126	P-23126	P-23126	P-23126	P-23126
6	P-23135	P-23135	P-23135	P-23135	P-23135
10	P-15396	P-15396	P-15396	P-15396	P-15396
11	P-12530	P-12530	P-12530	P-12530	P-12530
12	P-15384—.066″	P-15384—.062″	P-15384—.060″	P-15384—.066″	P-15384—.075″
13	P-17250—**No. 28**	P-17250—**No. 28**	P-17250—**No. 28**	P-17250—**No. 28**	P-17250—**No. 28**
14	382066	382066	382066	382066	P-17501
15	P-14364	P-14364	P-14364	P-14364	P-14364
17	P-17496	P-17496	P-17496	P-17496	P-17496
18	P-22702	P-22702	P-22702	P-22702	P-22702
19	P-16762	P-16762	P-16762	P-16762	P-16762
20	P-5636	P-5636	P-5636	P-5636	P-5636
21	P-5364	P-5364	P-5364	P-5364	P-5364
*22	P-18772	P-18772	P-18772	P-18772	P-18772
23	P-16760	P-16760	P-16760	P-16760	P-16760
27	P-16849	P-16849	P-16849	P-16849	P-16849
30	P-13498	P-13498	P-20216	P-20216	P-13498
	P-15817	P-15817	P-15817	P-15817	P-15817
31	P-16064—**21°**	P-16064—**21°**	P-16064—**21°**	P-16064—**21°**	P-16064—**21°**
32	P-285	P-285	P-285	P-285	P-285
40	P-15259	P-15259	P-15259	P-15259	P-15259
41	P-17515	P-17515	P-17515	P-17515	P-17515
42	P-17517	P-17517	P-17517	P-17517	P-17517
44	P-18894	P-18894	P-18894	P-18894	P-18894
45	382307—**Nos. 56-60**	382307—**Nos. 56-60**	382307—**Nos. 56-60**	382307—**Nos. 56-60**	382308—**Nos. 54-60**
51	P-18929	P-18930		P-18929	
52	P-7098	P-7098	P-7098	P-7098	P-7098
53	P-15458	P-15458	P-15458	P-15458	P-15458
54	P-12780	P-12780	P-12780	P-12780	P-12780
55	P-16764	P-16764	P-16764	P-16764	P-16764
56	P-19911	P-19911	P-19911	P-19911	P-19911
57	P-14618	P-14618	P-14618	P-14618	P-14618
58	P-8387	P-8387	P-8387	P-8387	
59	P-6855	P-6855	P-6855	P-6855	P-6855
60	P-17140	P-17140	P-21394	P-17140	P-17140
61	P-20235	P-20235	P-20235	P-20235	P-20235
62	P-12958	P-12958	P-12958	P-12958	P-12958
63	P-17500	P-17500	P-17500	P-17500	P-17500
64	P-17498—**1-3/8″**	P-17498—**1-3/8″**	P-17498—**1-5/16″**	P-17498—**1-3/8″**	P-17498—**1-1/2″**
65	P-16850	P-16850	P-16850	P-16850	P-16850
66	P-21372	P-21372	P-21372	P-21372	P-21372
67	P-1693	P-1693	P-1693	P-1693	P-1693
68	P-17499	P-17499	P-17499	P-17499	P-17499
69	P-17519	P-17519	P-17519	P-17519	P-17519
70	P-16795	P-18449	P-16795	P-16795	P-18449
	P-18552	P-18552	P-18552	P-18552	P-18552
	P-15831	P-15831	P-15831	P 15831	P-15831
*71	P-16766	P-16766	P-16766	P-16766	P-16766
*72	P-3157	P-3157	P-3157	P-3157	P-3157
*73	P-19979	P-19979	P-19977	P-19979	P-19977
	P 16807	P-16807	P-16807	P-16807	P-16807
*74	P-17468	P-17468	P-16763	P-16763	P-17468
75	P-16320—**No. 60**	P-16320—**No. 60**	P-16320—**No. 70**	P-16320—**No. 60**	P-16320—**No. 65**
76	P-14745	P-14745	P 14745	P-14745	P-14745
*77	P-18857	P-18857 ,	P-18857	P-18857	P-18857
	P-13046	P-13046	P-13046	P-13046	P-13046
	P-18927	P-18927	P-18927	P-18927	P 18927
78	P-14160	P-14160	P 14160	P-14160	P-14160
79	P-22713	P 22713	P-22713	P-22713	P-22713
80	P-3292	P 3292	P-3292	P-3292	P-3292
81	P-15459	P-15459	P-15459	P-15459	P-15459
*82			P-23143		
*83					
*84					
***Note—**	Parts Not Illustrated.				
	Fuel Level—31/32″. Fuel Pressure—2 lbs. Throttle Valve Location — Lower edge of throttle valve to be **Flush** + — .004″ from No. 56 idle hole.	Fuel Level—31/32″. Fuel Pressure—2 lbs. Throttle Valve Location — Lower edge of throttle valve to be **Flush** + — .004″ from No. 56 idle hole.	Fuel Level—31/32″. Fuel Pressure—2 lbs. Throttle Valve Location — Lower edge of throttle valve to be **Flush** + — .004″ from No. 56 idle hole.	Fuel Level—31/32″. Fuel Pressure—2 lbs. Throttle Valve Location — Lower edge of throttle valve to be **Flush** + — .004″ from No. 56 idle hole.	Fuel Level—31/32″. Fuel Pressure—2 lbs. Throttle Valve Location — With throttle valve fully closed the lower idle hole should be open from a No. 57 drill to a No. 64 drill.

STROMBERG CARBURETOR

Key No.	A-17584 International BQ Truck Code No. 24-9E Symbol No. 2-BQ-313 4-3/4″ x 5-3/4″—6 cyl.	A-17654 International CQ and CT Bus Code No. 24-35E Symbol No. 2-CF-315 4-1/4″ x 5-1/2″—6 cyl.	A-17684 International CQ and CT Bus Code No. 24-31E Symbol No 2-CT-31 4-1/2″ x 5-1/2″—6 cyl.	A-17904 International Model CU Code No. 24-160 Sym. No. 234-GB-345 3-7/8″ x 5″—6 cyl.
1	P 18811	P 18811	P 18811	P 18811
2	J 4270 G	J 4270 G	J 4270 G	J 4270 G
3	P 16786— 048″	P 16786— 044″	P 16786— 048″	P 16786—.044″
4	P 23126	P 23126	P 23126	P 23126
6	P 23135	P 23135	P 23135	P 23135
10	P 15396	P 15396	P 15396	P 15396
11	P 12530	P 12530	P 12530	P 12530
12	P 15384— 079″	P 15384— 062″	P 15384— 068″	P 15384— 066″
13	P 17250—**No 28**	P 17250—**No 28**	P 17250—**No. 28**	P 17250—**No. 28**
14	382066	382066	382066	382066
15	P 14364	P 14364	P 14364	P 14364
17	P 17496	P 17496	P 17496	P 17496
18	P 22702	P 22702	P 22702	P 22702
19	P 16762	P 16762	P 16762	P 16762
20	P 5636	P 5636	P 5636	P 5636
21	P 5364	P 5364	P 5364	P 5364
*22	P 18772	P 18772	P 18772	P 18772
23	P 16760	P 16760	P 16760	P 16760
27	P 16849	P 16849	P 16849	P 16849
30	P 20216	P 13498	P 20216	P 20216
	P 15817	P 15817	P 15817	P 15817
31	P 16064—21°	P 16064—21°	P 16064—21°	P 16064—21°
32	P 285	P 285	P 285	P 285
40	P 15259	P 15259	P 15259	P 15259
41	P 17515	P 17515	P 17515	P 17515
42	P 17517	P 17517	P 17517	P 17517
44	P 18894	P 18894	P 18894	P 24904
45	382309—**Nos 56-60**	382307—**Nos. 56-60**	382307—**Nos. 56-60**	P 24903—**Nos. 56-60**
51		P 18930	P 18930	P 15278
52	P 7098	P 7098	P 7098	P 7098
53	P 15458	P 15458	P 15458	P 15458
54	P 12780	P 12780	P 12780	P 12780
55	P 16764	P 16764	P 16764	P 16764
56	P 19911	P 19911	P 19911	P 19911
57	P 14618	P 14618	P 14618	P 14618
58		P 8387	P 8387	
59	P 6855	P 6855	P 6855	P 6855
60	P 17140	P 17140	P 17140	P 19995
61	P 20235	P 20235	P 20235	P 20235
62	P 12958	P 12958	P 12958	P 12958
63	P 17500	P 17500	P 17500	P 17500
64	P 17498—**1-1/2″**	P 17498—**1-3/8″**	P 17498—**1-7/16″**	P 17498—**1-3/8″**
65	P 16850	P 16850	P 16850	P 16850
66	P 21372	P 21372	P 21372	P 21372
67	P 1693	P 1693	P 1693	P 1693
68	P 17499	P 17499	P 17499	P 17499
69	P 17519	P 17519	P 17519	P 23415
70	P 16795	P 18449	P 18449	P 16795
	P 18552	P 18552	P 18552	P 18552
	P 15831	P 15831	P 15831	P 15831
*71	P 16766			P 16766
*72	P 3157			P 3157
*73	P 19979			P 19977
	P 16807			P 16807
*74	P 17468			P 16763
75	P 16320—**No. 65**	P 16320—**No 60**	P 16320—**No 60**	P 16320—**No. 70**
76	P 14745	P 14745	P 14745	P 14745
*77	P 18857			P 18857
	P 13046			P 13046
	P 18927			P 18927
78	P 14160	P 14160	P 14160	P 14160
79	P 22713	P 22713	P 22713	P 22713
80	P 3292	P 3292	P 3292	P 3292
81	P 15459	P 15459	P 15459	P 15459
*82				P 23143
*83				P 19892
				P 12867
*84				P 17287
				P 18769
				P 18299
***Note—**	Parts Not Illustrated			
	Fuel Level—31/32″ Fuel Pressure—2 lbs Throttle Valve Location — Lower edge of throttle valve to be **Flush** + — 004″ from No 56 idle hole	Fuel Level—31/32″ Fuel Pressure—2 lbs Throttle Valve Location — Lower edge of throttle valve to be **Flush** + — 004″ from No 56 idle hole	Fuel Level—31/32″ Fuel Pressure—2 lbs Throttle Valve Location — Lower edge of throttle valve to be **Flush** + — 004″ from No 56 idle hole	Fuel Level—31/32″ Fuel Pressure—2 lbs Throttle Valve Location — Lower edge of throttle valve to be **Flush** + — 004″ from No 56 idle hole

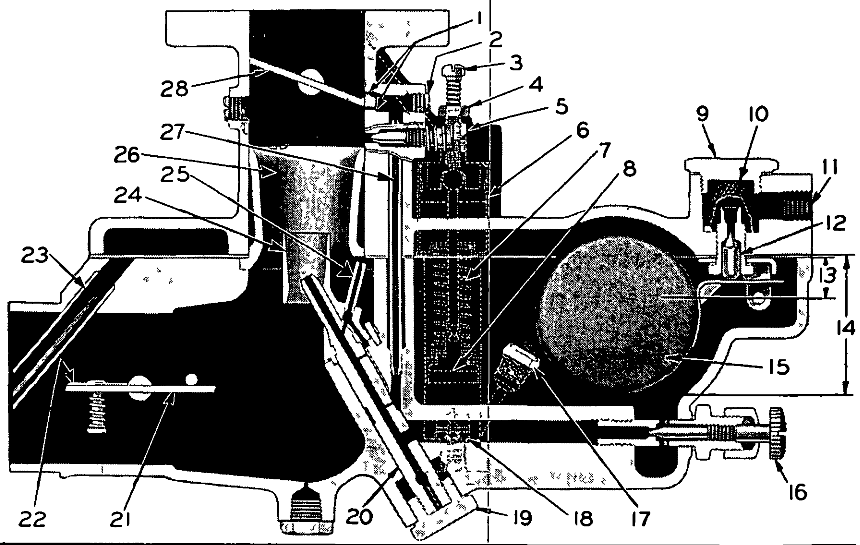
STROMBERG SFM-4 CARBURETOR

FOR STROMBERG NUMBER, CODE NUMBER, MANUFACTURER'S SYMBOL NUMBER, MODEL, BORE AND STROKE INFORMATION SEE PARTS PAGE

SIZE: 1-3/4" UPDRAFT S.A.E. 3-5/16" FLANGE CENTER

PARTS ILLUSTRATED

1. Idle Discharge Holes
2. Idle Discharge Plug
3. Pump Adjustment Screw
4. Pump Adjustment Lock Screw
5. Idle Needle Valve
6 Vacuum Piston
7. Accelerating Pump Spring
8. Accelerating Pump Piston
9. Strainer Plug
10. Strainer
11 Gasoline Inlet
12 Float Needle Valve and Seat
13 Fuel Level (see instructions)
14 Float Setting (see instructions)
15. Float
16 Adjustable Metering Jet
17. Check Valve
18. Combination Power and Pump By-Pass Jet
19. Main Discharge Jet Nut
20. Main Discharge Jet
21. Choke Valve
22. Choke Poppet Valve
23. Vent Tube
24. Small Venturi
25 High Speed Bleed
26. Large Venturi
27. Idle Tube
28. Throttle Valve



Main Metering System—

The main metering system controls the flow of the fuel during the intermediate speed of the engine. Fuel enters the carburetor through the gasoline inlet (11) into the float chamber. From here the gasoline passes through the metering jet (16) which controls the supply of fuel for the main metering system, to the main discharge jet (20). The main discharge jet delivers the fuel to the small venturi (24) (auxiliary venturi) where it is mixed with air and flows into the carburetor barrel The amount of air used in the mixture is controlled by the large venturi (26) (When replacing main discharge jet use new P-21372 gasket.)

Power System

For maximum power or higher speeds a richer mixture is needed This is accomplished by the power system. During the intermediate speed of the engine sufficient fuel is furnished by the main metering jet. However for hard pulls and wide open throttle this supply is not equivalent to the engine demands; therefore another valve comes into operation to supply this extra amount of gasoline needed. While the engine runs at a moderate speed a certain amount of manifold vacuum is created. This vacuum holds vacuum piston (6) in an up position but when the throttle is opened above normal to compensate for the extra power that may be needed from the engine the vacuum falls off accordingly and the vacuum piston drops until the pump piston (8), which is directly connected to the vacuum piston, comes in contact with and opens the valve in the by-pass jet (18). The opening of this valve allows an additional amount of gasoline to enter the main discharge jet and enrichens the mixture. This is known as the Power System.

Accelerating System—

As explained above, the vacuum piston of the pump is held in an up position by the manifold vacuum created by the engine. On sudden opening of the throttle the vacuum drops off very rapidly and the vacuum piston (6) is released When this occurs accelerating pump spring (7) forces pump piston (8) down which in turn forces a discharge of gasoline to be driven through the by-pass jet (18) and out the main discharge jet. This sudden surplus of fuel enrichens the mixture for the moment and furnishes the engine the extra power needed for fast acceleration The amount of discharge can be controlled by the adjustment screw (3). Turn screw IN to lessen, OUT to make greater

Idle System—

When the throttle valve is closed gasoline is delivered to the engine by means of the idle system of the carburetor. Gasoline is taken up through the idle tube (27) which meters the quantity of fuel for the idle system It is mixed with air, the amount of which is governed by the idle needle valve (5) and reaches the engine by means of the idle holes (1) and up through the barrel of the carburetor. To make the mixture richer turn idle needle valve (5) **IN**, to make mixture leaner screw **OUT**.

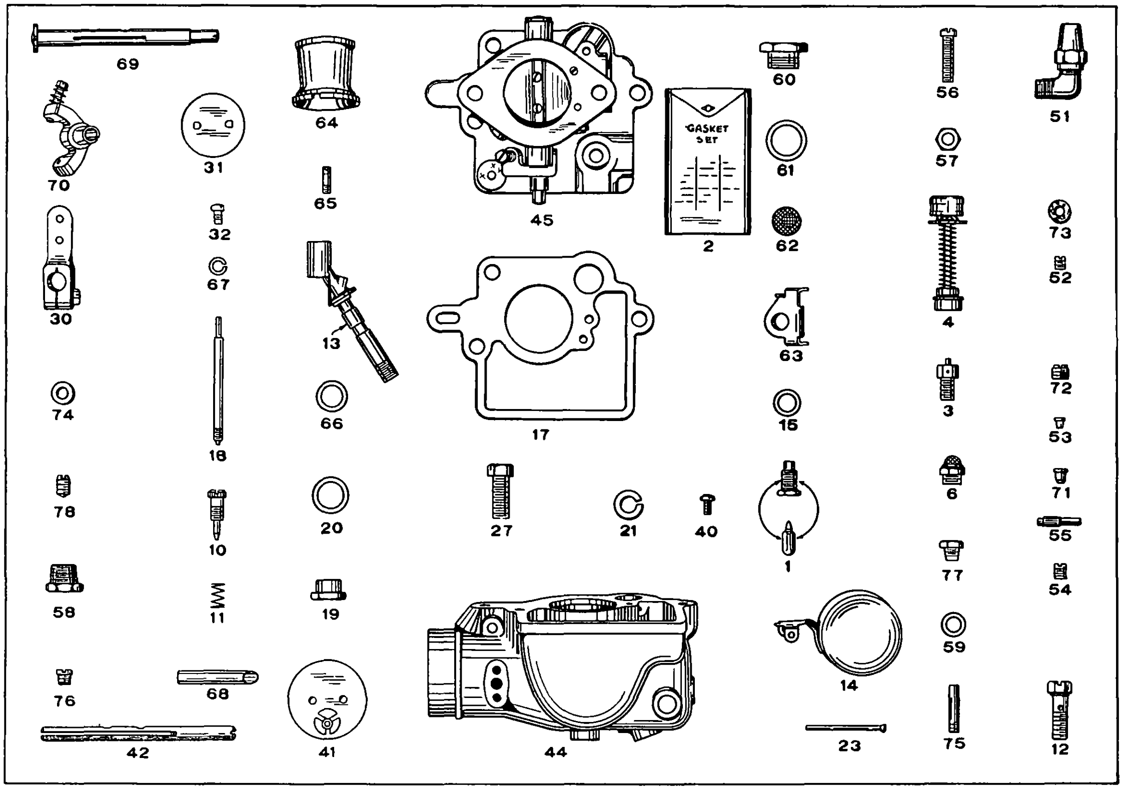
Fuel Level—

The gasoline level in the float chamber is properly set at the factory and should not be adjusted unless carburetor has been handled roughly or level has been changed for some other cause. For measuring fuel level it is advisable to use an open vessel with a leveled top, large enough to support the throttle valve body and to accommodate the float assembly. Place main body gasket between body and vessel before checking. Connect gas line to inlet in throttle body and allow gas to feed into measuring vessel at the fuel pump pressure until flow is stopped by the closing of the float needle valve Fuel level should measure (see parts page) below top surface of vessel (without gasket). Use standard depth gauge for measuring fuel level. To correct fuel level hold throttle body in inverted position and set float to measure (see parts page) from top of float (14) to gasket surface of throttle body, which will give approximate fuel level.

MOTOR TUNE-UP DATA

Diversification of Equipment makes standard tune-up specifications impossible.

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Key No.	Part Name	
1	Float Needle Valve and Seat	(NOT VAR.)
2	Complete Gasket Set	
3	Pump By Pass Jet	(VAR.)
4	Pump Piston	
6	Pump Inlet Check Valve	
10	Idle Needle Valve	
11	Spring—Idle Needle Valve	
12	Metering Jet	(VAR.)
13	Main Discharge Jet	(VAR.)
14	Float	
15	Gasket—Float Needle Valve Seat	
17	Gasket—Main Body	
18	Idle Tube	
19	Nut—Main Discharge Jet	
20	Gasket—Main Discharge Jet	
21	Lockwasher—Main Body Attach Screw	
23	Fulcrum Pin—Float	
27	Screw—Main Body Attach	
30	Throttle Lever	
	Screw—Throttle Lever Clamp	
31	Throttle Valve	
32	Screw—Throttle Valve Attach	
40	Screw—Choke Valve Attach	
41	Choke Valve	
42	Choke Stem	
44	Main Body	
45	Throttle Body (Complete with Idle holes Throttle valve and Throttle stem)	(VAR.)
51	Union	
52	Plug—Vacuum Channel	
53	Plug—Drive	
54	Plug—Idle Discharge Holes	
55	Pin—Choke Valve Stop	
56	Screw—Vacuum Pump Adj	
57	Nut—Vacuum Pump Adj Screw	
58	Plug—Gas Inlet	
59	Gasket—Metering Jet	
60	Plug—Strainer	
61	Gasket—Strainer Plug	
62	Strainer—Gasoline	
63	Hanger—Float	
64	Venturi	(VAR.)
65	Pin—Main Jet Locating	
66	Gasket—Main Discharge Jet	
67	Lockwasher—Valve Attach Screw	
68	Vent Tube	
69	Throttle Stem	
70	Throttle Stop	
	Screw—Idle Adj	
	Spring—Idle Adj Screw	
71	Plug—Idle Discharge Drilling Hole	
72	Plug—Governor Conn	
73	Gasket—Idle Tube Cork	
74	Washer—Idle Tube	
75	High Speed Bleeder	(VAR.)
76	Drain By Pass	(VAR.)
77	Plug—Drain Boss	
78	Set Screw—Vent Tube	

BENDIX PRODUCTS DIVISION
SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

STROMBERG CARBURETOR

Key No.	A-17834 International Model CQ and CT Bus Code No. 24-96C Symbol No. 2-CF-315A 4-1/4" x 5-1/2"—6 cyl.	A-17824 International Model CQ and CT Code No. 24-97C Symbol No. 2-CT-31A 4-1/2" x 5-1/2"—6 cyl.	A-17764 International Code 24-113B Symbol No. 2-CT-310A
1	P-18811	P-18811	P-18811
2	J-4418-G	J-4418-G	J-4418-G
3	P-16786—**.044"**	P-16786—**.048"**	P-16786—**.038"**
4	P-23126	P 23126	P-23126
6	P-23135	P-23135	P-23135
10	P-15396	P-15396	P-15396
11	P-12530	P-12530	P-12530
12	P-15384—**.062"**	P-15384—**.068"**	P-15384—**.062"**
13	P-17250—**No. 28**	P-17250—**No. 28**	P-17250—**No. 28**
14	382066	382066	382066
15	P-14364	P-14364	P-14364
17	P-17496	P-17496	P-17496
18	P-22702	P-22702	P-22702
19	P-16762	P-16762	P-16762
20	P-5636	P-5636	P-5636
21	P-5364	P-5364	P-5364
23	P-16760	P-16760	P-16760
27	P-16849	P-16849	P-16849
30	P-13498	P-20216	P-23489
	P-15817	P 15817	P-15817
31	P-16064—**21°**	P-16064—**21°**	P-16064—**21°**
32	P-285	P-285	P-285
40	P-15259	P-15259	P-15259
41	P-17515	P-17515	P-17515
42	P-17517	P-17517	P-17517
44	P-22716	P-22716	P-22716
45	382316—**Nos. 56-60**	382316—**Nos. 56-60**	382315—**Nos. 56-60** —**No. 50 Spark**
51	P-18930	P-18930	P-18930
52	P-7098	P-7098	P-7098
53	P-15458	P-15458	P-15458
54	P-12780	P-12780	P 12780
55	P 16764	P-16764	P-16764
56	P-19911	P-19911	P-19911
57	P-14618	P-14618	P-14618
58	P-8387	P-8387	P-8387
59	P-6855	P-6855	P-6855
60	P-17140	P-17140	P-17140
61	P-20235	P-20235	P-20235
62	P-12958	P-12958	P-12958
63	P-17500	P-17500	P-17500
64	P-17498—**1-3/8"**	P-17498—**1-7/16"**	P-17498—**1-3/8"**
65	P-16850	P-16850	P-16850
66	P-21372	P-21372	P 21372
67	P-1693	P-1693	P-1693
68	P-17499	P-17499	P-17499
69	P-17519	P-17519	P-17519
70	P-18449	P-18449	P 18449
	P-18552	P-18552	P-18552
	P-15831	P-15831	P-15831
71	P-15459	P-15459	P-15459
72	P-3292	P-3292	P-3292
73	P-14160	P-14160	P-14160
74	P-22713	P-22713	P-22713
75	P-16320—**No. 60**	P-16320—**No. 60**	P-16320—**No. 60**
76	P-16179—**No. 58**	P-16179—**No. 58**	P-16179—**No. 58**
77	P-26	P-26	P-26
78	P-14745	P-14745	P-14745
	Fuel Level—31/32". Fuel Pressure—2 lbs. Throttle Valve Location—Lower edge of throttle valve should be Flush with No. 56 idle disch. hole.	Fuel Level—31/32". Fuel Pressure—2 lbs. Throttle Valve Location—Lower edge of throttle valve should be Flush with No. 56 idle disch. hole.	Fuel Level—31/32". Fuel Pressure—2 lbs. Throttle Valve Location—Lower edge of throttle valve should be Flush with No. 56 idle disch. hole. †**Spark Hole**—Lower edge of throttle valve should be .040" above No. 50 spark hole.

STROMBERG SFM-5 CARBURETOR

STROMBERG NO. 380014 (CODE NO. 24-168A) MACK SYMBOL NO. 234GB329

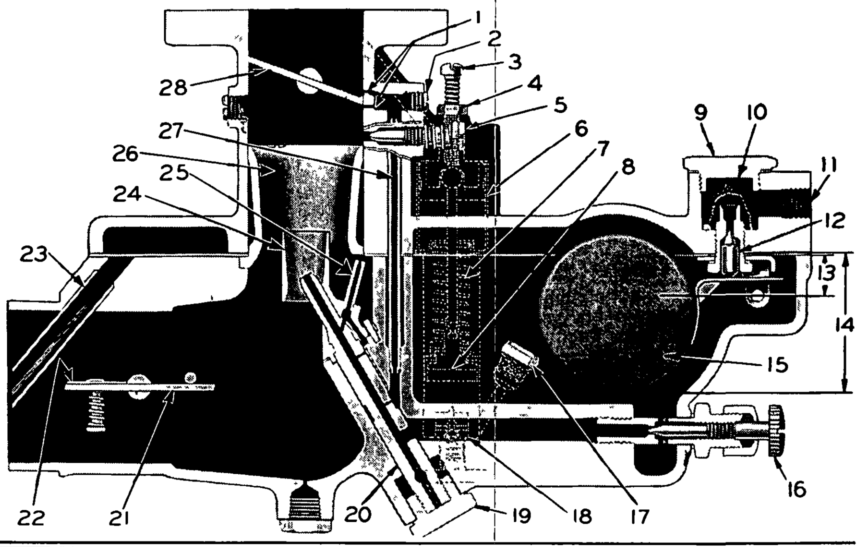
SIZE: 2″ UPDRAFT S.A.E. 3-9/16″ FLANGE CENTERS

MACK
International
"Bus"

5″ x 6″—6 cyl.

PARTS ILLUSTRATED

1. Idle Discharge Holes
2. Idle Discharge Plug
3. Pump Adjustment Screw
4. Pump Adjustment Lock Screw
5. Idle Needle Valve
6. Vacuum Piston
7. Accelerating Pump Spring
8. Accelerating Pump Piston
9. Strainer Plug
10. Strainer
11 Gasoline Inlet
12. Float Needle Valve and Seat
13 Fuel Level (see instructions)
14. Float Setting (see instructions)
15. Float
16 Adjustable Metering Jet
17. Check Valve
18. Combination Power and Pump By-Pass Jet
19. Main Discharge Jet Nut
20. Main Discharge Jet
21. Choke Valve
22. Choke Poppet Valve
23. Vent Tube
24. Small Venturi
25. High Speed Bleed
26. Large Venturi
27. Idle Tube
28. Throttle Valve



Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—For measuring fuel level it is advisable to use on open vessel with a leveled top, large enough to support the throttle valve body and to accommodate the float assembly. Place main body gasket between body and vessel before checking. Connect gas line to inlet in throttle body and allow gas to feed into measuring vessel at **2 lbs.** pressure until flow is stopped by the closing of the float needle valve. Fuel level should measure **31/32″** below top surface of vessel (without gasket); use standard depth gauge for measuring fuel level. To correct fuel level hold throttle body in inverted position and set float to measure **2-3/8″** from top of float to gasket surface which will give approximate fuel level; change if necessary.

MAIN METERING SYSTEM — Venturi **1-5/8″**, P-17739; Main Discharge Jet **No. 28,** P-17250; (**Tool T-20180** used to remove main discharge jet plug). High Speed Bleeder **No. 65** P-16320; Main Metering Jet **.085″** P-15384, (**Tool T-20139**). (Use new P-21372 main discharge jet gasket when replacing main discharge jet.)

POWER SYSTEM—Combination Power and Pump By-Pass Jet **.062″** P-16786 (**Tool T-20138**); Power System is brought into operation at **4″** to **6″** of manifold vacuum. Use **Tool T-23785** to remove pump inlet check valve.

ACCELERATION—Pump stroke adjusted by adjustment screw above pump vacuum piston. Screw "in" to shorten stroke, "out" to lengthen. Adjustment screw to be set 1/8″ below top surface of throttle body flange.

IDLE SYSTEM—Idle discharge holes **Nos. 56-56.** With throttle valve fully closed the lower idle hole should be open from a **No. 70** to **No. 77** drill. Idle tube **No. 72** P-22702; Adjust to smooth running, IN to make richer, OUT to make leaner.

VACUUM SPARK CONTROL—With throttle fully closed and **No. 50** drill in spark hole, edge of valve is located **.040″** above **No. 50** drill.

FLANGE GASKET—P-24772.

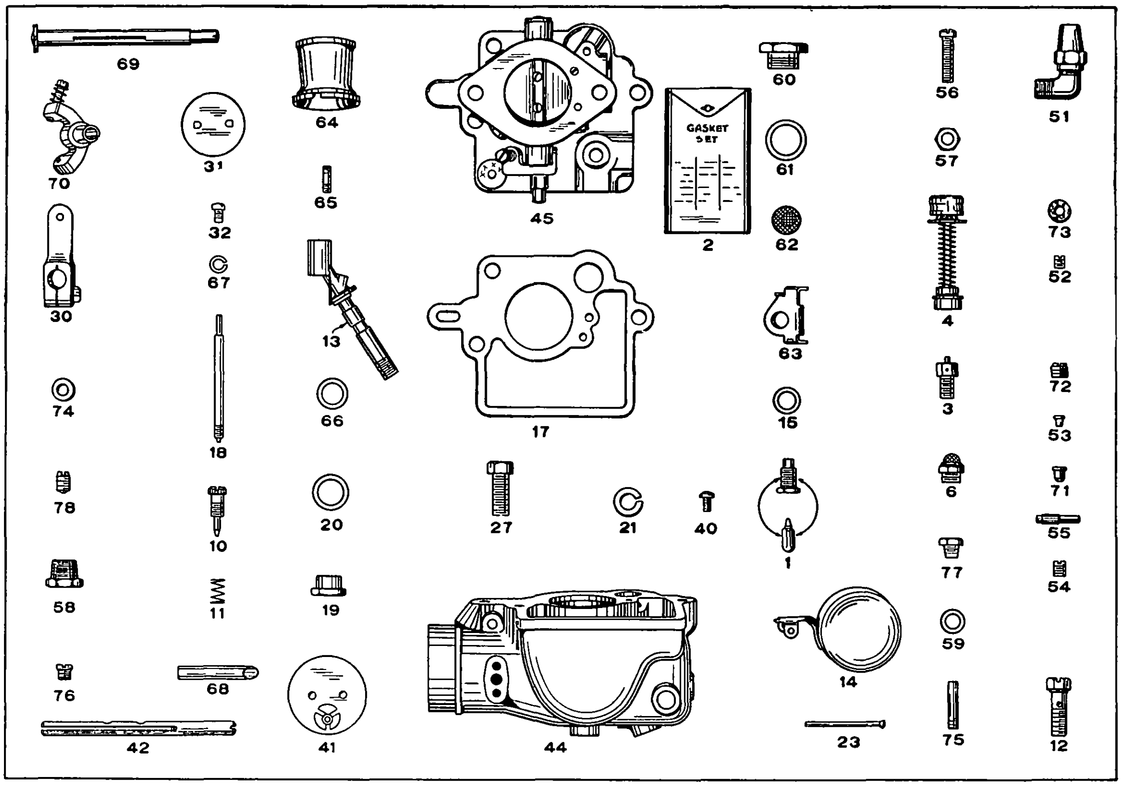
SPECIAL TOOLS REQUIRED—T-20139 Main Disch. and Metering Jet; T-20138 By-Pass jet socket wrench; T-20180 Main Disch. Jet plug socket wrench; T-23785 Check valve socket wrench; T-20182 Bushing and vent tube remover; T-24972 Pump Burette gauge. T-25034 Float needle valve seat socket wrench.

MOTOR TUNE-UP DATA

Diversification of Equipment makes standard tune-up specifications impossible.

Printed in U. S. A.

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Key No	Part No	Part Name	
1	P 18812	Float Needle and Seat	(NOT VAR)
2	J 4271 G	Complete Set of Gaskets	
3	P 16786	By Pass Jet **062″**	(VAR)
4	P ~~29126~~ 382227	Pump Piston	
6	P 23135	Pump Inlet Check Valve	
10	P 15396	Idle Needle Valve	
11	P 12530	Spring—Idle Needle Valve	
12	P 15384	Metering Jet **085″**	(VAR)
13	P 17250	Main Discharge Jet **No 28**	(VAR)
14	382066	Float	
15	P 14364	Gasket—Float Needle Valve Seat	
17	P 17585	Gasket—Main Body	
18	P 22702	Idle Tube	
19	P 16762	Nut—Main Discharge Jet	
20	P 5636	Gasket—Main Discharge Jet Nut	
21	P 5364	Lockwasher—Main Body Attach Screw	
23	P 16760	Fulcrum Pin—Float	
27	P 16849	Screw—Main Body Attach	
30	382014	Throttle Lever	
	P 15817	Screw—Throttle Lever Clamp	
31	P 16065	Throttle Valve	
32	P 285	Screw—Throttle Valve Attach	
40	P 15259	Screw—Choke Valve Attach	
41	P ~~17515~~ 23400	Choke Valve	
42	P 17517	Choke Stem	
44	P ~~22716~~ 382180	Main Body	
45	382179	Throttle Body **No 56-56** idle discharge holes **No 50** spark hole (complete with throttle stem and valve)	(VAR)
51	P 15277	Union	
52	P 7098	Plug—Vacuum Suction Channel	
53	P 15458	Plug—Drive	
54	P 12780	Plug—Idle Discharge Holes	
55	P 16764	Pin—Choke Valve Stop	
56	P 19911	Screw—Vacuum Pump Adj	
57	P 14618	Nut—Vacuum Pump Adj Screw	
58	P 8387	Plug—Gasoline Inlet	
59	P 6855	Gasket—Metering Jet	
60	P 17140	Plug—Strainer	
61	P 20235	Gasket—Strainer Plug	
62	P 12958	Strainer—Gasoline	
63	P 17500	Hanger—Float	
64	P 17739	Venturi **1-5/8″**	(VAR)
65	P 16850	Pin—Main Jet Locating	
66	P 21372	Gasket—Main Discharge Jet	
67	P 1693	Lockwasher—Valve Screw	
68	P 17499	Vent Tube	
69	P 17741	Throttle Stem	
70	P 18449	Throttle Stop	
	P 18552	Screw—Idle Adj	
	P 15831	Spring—Idle Adj Screw	
71	P 15459	Plug—Idle Disch Drilling Hole	
72	P 3292	Plug—Governor Conn	
73	P 14160	Washer—Idle Tube Cork	
74	P 22713	Washer—Idle Tube	
75	P 16320	H S Bleeder **No 65**	(VAR)
76	P 16179	Drain By Pass **No 58**	(VAR)
77	P 26	Plug—Drain Boss	
78	P 14745	Set Screw—Vent Tube	

425204 Choke Valve [illegible] Screw
30-5-24 " " " " Nut

BENDIX PRODUCTS DIVISION
SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

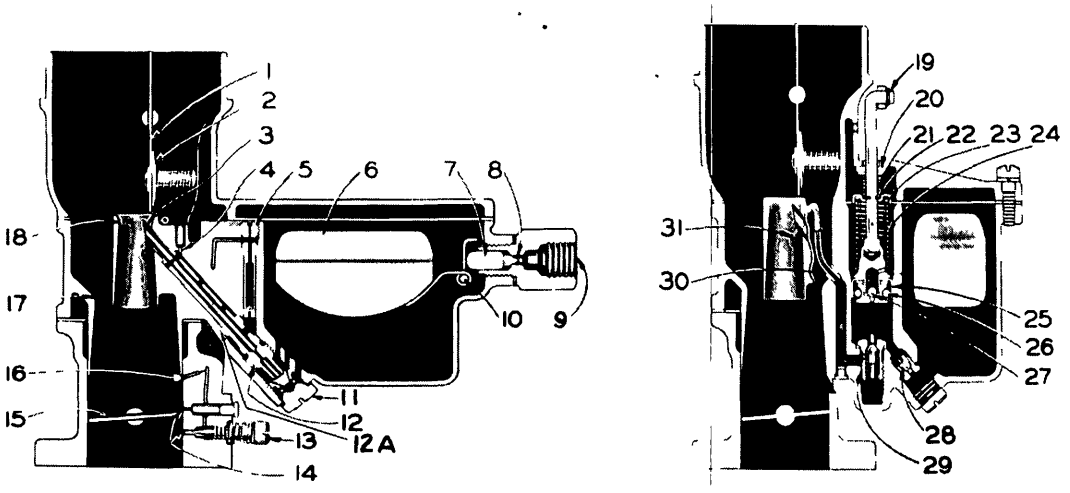
STROMBERG "EE-1" CARBURETOR

1938
NASH
MODEL
"3880"
3⅛"x4¼"—8 cyl.

STROMBERG NO. A-18331 (CODE NO. 8-29) NASH SYMBOL 95220-A

SIZE: 1" DUAL D. D. 3-HOLE FLANGE

PARTS ILLUSTRATED



1 Choke Valve
2 Poppet Valve
3 Main Discharge Jet
4 High Speed Bleeder
5 Idle Tube
6 Float
7 Float Needle Valve
8 Float Needle Valve Seat
9 Gasoline Inlet
10 Float Fulcrum Pin
11 Main Discharge Jet Plug
12 Metering Jet
12A Main Discharge Jet Gasket
13 Idle Needle Valve
14 Idle Discharge Holes
15 Throttle Valve
16 Idle Air Bleeder
17 Primary Venturi
18 Auxiliary Venturi
19 Pump Piston Link
20 Dust Washer (Felt)
21 Dust Washer Retaining Spring
22 Spring Retainer Lock
23 Spring Retainer Washer
24 Pump Duration Spring
25 Pump Piston
26 Pump Piston Expansion Spring
27 Pump Relief Valve
28 Pump Inlet Check Valve
29 Power By-Pass Jet
30 Pump Discharge Nozzle Holder
31 Pump Discharge Nozzle

Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **1/2"** below top surface of float chamber (without gasket) at 3 lbs. pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level)

MAIN METERING SYSTEM—Venturi **1-1/32":** Main Discharge Jet **No. 32-36** P-20853 **(Tool T-24967).** Use new Lead Gasket P-20421 assembled on lower shoulder of main discharge jet; High Speed Bleeder **No. 70** in body Main Metering Jet **.048"** P-19442 **(Tool T-24924);** use **Tool T-19099** Screw Driver for removing main jet plug Main metering system controls the flow of fuel up to approximately 65 to 70 M. P. H.

POWER SYSTEM—Combination Power and Pump By-Pass Jet **No. 63** P-19447. The Power Jet is brought into action at approximately 65 to 70 M. P. H. Pump piston to rest on seat of by-pass jet (less over-travel) with throttle valve opened **7/32" + — 1/64"** drill (maximum pump setting) (measure with shank end of **7/32"** drill); bend pump lever fulcrum arm to obtain correct setting.

ACCELERATION—Pump Discharge Nozzles **No. 65** (in main body); Pump capacity **10** c.c. per 10 fast strokes, and **21** c.c. per 10 slow strokes with pump rod set in maximum setting. Use **Tool T-24972.** Pump action takes place during acceleration period only.

IDLE SYSTEM—Idle Discharge holes **No. 56-60.** With throttle valve fully closed and **No. 60** drill in idle hole, edge of valve is located **.030" + — .004"** from **No. 60** drill; Idle Air Bleed **No. 70** in idle tube, **No. 54** in throttle body P-20470; Idle Tube **No. 55** P-20419. **Adjustment:** Adjust to smooth running, one barrel at a time, OUT to make richer and IN to make leaner; throttle at 7 to 8 M P H.

FLANGE GASKET—P-20466

SPECIAL TOOLS REQUIRED—Use Nash complete Tool Kit **SER-385:** T-24733 Float Adjuster; T-24967 Main Discharge Jet Remover; T-24924 Main Metering Jet Wrench; T-24970 By-Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burrette Gauge; T-24968 Handle; T-19099 Main jet plug screw-driver.

MOTOR TUNE-UP DATA

SPARK PLUG—.025".
Clean and adjust at regular intervals.

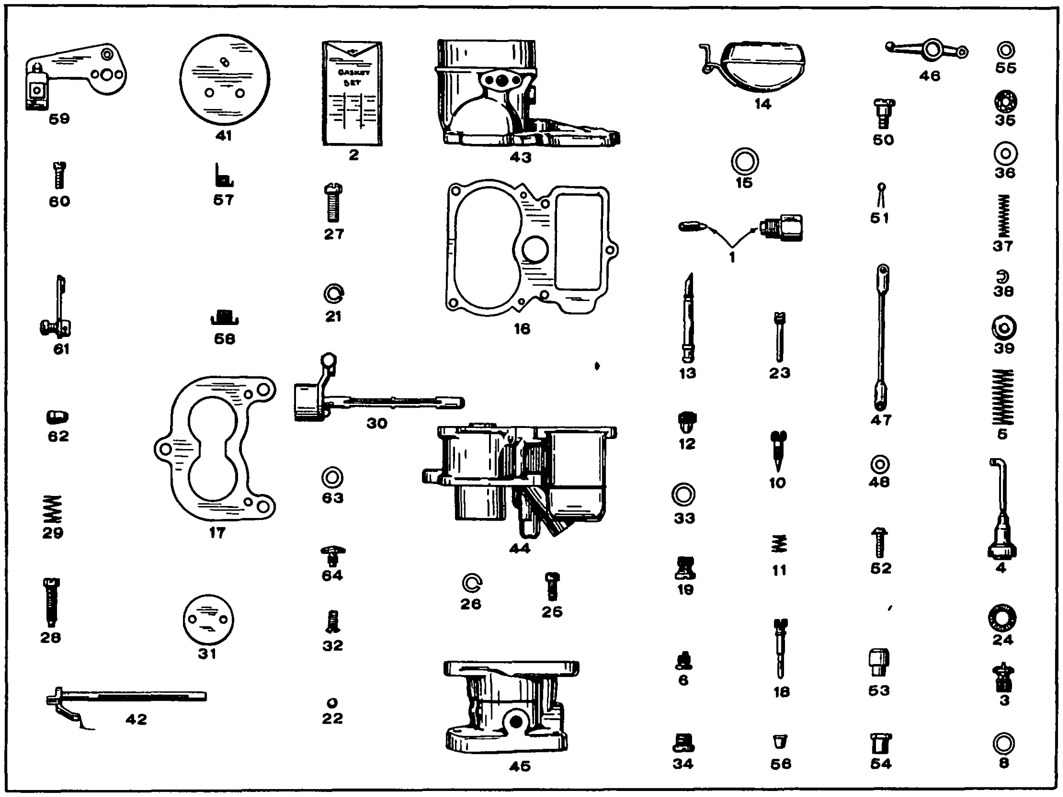
DISTRIBUTOR—.017".
Breaker gap set .017".
Replace if necessary.

VALVES—Intake: .015".
Exhaust: .015". Engine hot.

IGNITION TIMING—Synchronize contacts before timing to open both at same time. Breaker contacts to open for No. 1 cylinder when "IGN" mark on front flywheel (vibration damper) is in line with pointer on timing case cover.

SERVICE RECOMMENDATION — Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key N.	Part N.	Part Name	
	1	P 19867	Float Needle Valve & Seat—113	(NOT VAR)
	2	J-4539 G	Complete Gasket Set	
	3	P 19447	Power—By Pass Jet No 63	(NOT VAR)
	4	P 23488	Pump Piston and Link	(Includes P 16960)
	4 A	P 23487	Pump Piston Link and Spring (Complete)	
	5	P 19458	Spring—Pump Duration	
	6	P 18144	Pump Inlet Check Valve	
	8	P 19448	Gasket—By Pass Jet	
	10	P 15478	Idle Needle Valve	
	11	P 15481	Spring—Idle Needle Valve	
	12	P 19442	Metering Jet—048"	(VAR)
	13	P 20853	Main Discharge Jet No 32 36	(NOT VAR)
	14	P 19825	Float with Lever	
	15	P 10666	Gasket—Needle Valve Seat	
	16	P 19428	Gasket—Air Horn	
	17	P 19432	Gasket—Main Body	
	18	P 20419	Idle Tube	
	19	P 20447	Plug—Main Discharge Jet	
	21	P 3157	Lockwasher—Main Body Attach Screw	
	22	P 18772	Lead Ball	
	23	P 18125	Screw—Float Lever Fulcrum	
	24	P 16960	Spring—Pump Piston Leather Expansion	
	25	P 3199	Screw—Air Horn Attaching	
	26	P 1791	Lockwasher—Air Horn Attach Screw	
	27	P 13041	Screw—Main Body Attaching	
	28	P 19103	Screw—Throttle Stop	
	29	P 15831	Spring—Throttle Stop Screw	
	30	P 21061	Throttle Stem & Stop	
	31	P 20720	Throttle Valve (5°)	(NOT VAR)
	32	P 4522	Screw—Throttle Valve & Choke Valve Attach	
	33	P 7338	Gasket—Check Valve & Main Disch Jet Plug	
	34	P 19716	Plug—Check Valve	
	35	P 17380	Washer—Pump Link—Felt	
	36	P 17060	Washer—Pump Link—Splash	
	37	P 19488	Spring—Packing Retainer	
	38	P 22045	Washer—Cup	
	39	P 22046	Washer—Spring Retainer	
	41	P 19746	Choke Valve	
	42	P 23562	Choke Stem & Lever	
	43	P 23560	Air Horn	
	43 A	P 23559	Air Horn and Valve (Complete)	
	44	P 21001	Assembly—Main Body 1 1/32" Venturi **No 70** H S Bleeder—Pump Discharge Tube	(VAR)
		P 20435	Pump Disch Tube (Right) No 65	(NOT VAR)
		P 20436	Pump Disch Tube (Left) No 65	(NOT VAR)
		P 19430	Pump Tube Wedge	
	45	P 20802	Assembly—Throttle Body **No 56 60** Idle Discharge Hole—Idle Air Bleeder	(VAR)
	46	P 19533	Pump Lever	
	47	P 20984	Pump Rod	
	48	P 10495	Washer—Pump Rod	
	50	P 20611	Screw—Pump Lever Fulcrum	
	51	112 S 22	Cotter Pin—Pump Link & Rod	
	52	P 17059	Screw—Fulcrum—Choke Lever	
	53	P 17058	Bushing—Choke Lever—Fulcrum Screw	
	54	P 20454	Drive Plug (17/64)	
	55	P 20421	Gasket—Main Discharge Jet—Lead	
	56	P 15458	Drive Plug No 10	
	57	P 18563	Spring—Choke Valve Return	
	58	P 18558	Spring—Choke Lever Return	
	59	P 18561	Assembly—Tube Holder	
		P 18560	Tube Holder	
		P 11561	Tube Holder Clamp	
		P 12868	Tube Holder Clamp Screw	
		P 8806	Tube Holder Clamp Screw Nut	
	60	P 17093	Screw—Choke Tube Holder Attach	
	61	P 23564	Choke Lever with Wire Conn & Screw	
		P 9270	Wire Connector Screw	
	62	P 20470	Idle Air Reducer No 54	(NOT VAR.)
	63	P 23732	Washer—Choke Lever Return Spring	
	64	P 19818	Cap—Choke Stem	

NOTE—For parts marked (VAR) size must be specified when ordering

BENDIX PRODUCTS DIVISION
SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

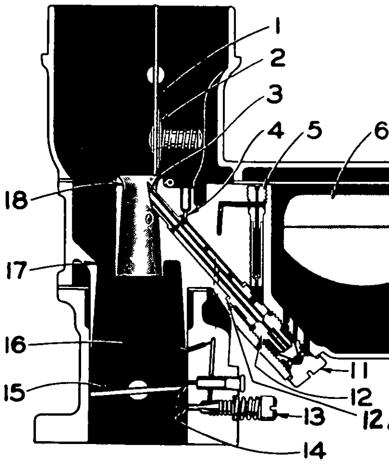
STROMBERG "EE-1" CARBURETOR

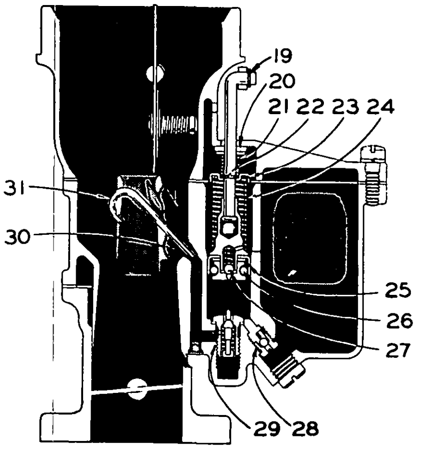
STROMBERG NO. A-18151 (CODE NO. 8-28) NASH SYMBOL 93376

SIZE: 1" DUAL D. D. 3-HOLE FLANGE

1937
NASH
MODEL
3780
(With Oil Bath)
(Air Cleaner)
3⅛"x4¼"—8 cyl.

PARTS ILLUSTRATED





1 Choke Valve
2 Poppet Valve
3 Main Discharge Jet
4 High Speed Bleeder
5 Idle Tube
6 Float
7 Float Needle Valve
8 Float Needle Valve Seat
9 Gasoline Inlet
10 Float Fulcrum Pin
11 Main Discharge Jet Plug
12 Metering Jet
12A Main Discharge Jet Gasket
13 Idle Needle Valve
14 Idle Discharge Holes
15 Throttle Valve
16 Idle Air Bleeder
17 Primary Venturi
18 Auxiliary Venturi
19 Pump Piston Link
20 Dust Washer (Felt)
21 Dust Washer Retaining Spring
22 Spring Retainer Lock
23 Spring Retainer Washer
24 Pump Duration Spring
25 Pump Piston
26 Pump Piston Expansion Spring
27 Pump Relief Valve
28 Pump Inlet Check Valve
29 Power By-Pass Jet
30 Pump Discharge Nozzle Holder
31 Pump Discharge Nozzle

Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **1/2"** below top surface of float chamber (without gasket) at 3 lbs. pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level).

MAIN METERING SYSTEM—Venturi **1-1/32"**; Main Discharge Jet **No. 32-36** P-20853 **(Tool T-24967).** Use new Lead Gasket P-20421 assembled on lower shoulder of main discharge jet; High Speed Bleeder **No. 70** in body Main Metering Jet **.047"** P-19442 **(Tool T-24924)**; Use **Tool T-19099** Screw Driver for removing main jet plug. Main metering system controls the flow of fuel up to approximately 65 to 70 M. P. H.

POWER SYSTEM—Combination Power and Pump By-Pass Jet **No. 63** P-19447. The Power Jet is brought into action at approximately 65 to 70 M. P. H. Pump piston to rest on seat of by-pass jet (less over-travel) with throttle valve opened **7/32" + — 1/64"** drill (maximum pump setting) (measure with shank end of **7/32"** drill); bend pump lever fulcrum arm to obtain correct setting.

ACCELERATION—Pump Discharge Nozzles **No. 65** in main body; Pump capacity **13** to **17** c.c. per 10 fast strokes, and **21** to **25** c.c. per 10 slow strokes with pump rod link set in maximum setting. Use **Tool T-24972.** Pump action takes place during acceleration period only.

IDLE SYSTEM—Idle Discharge holes **No. 56-60.** With throttle valve fully closed and **No. 60** drill in idle hole, edge of valve is located **.030" + — .004"** from **No. 60** drill; Idle Air Bleed **No. 70** in idle tube, **No. 54** (in throttle body) P-20470; Idle Tube **No. 55** P-20419. **Adjustment:** Adjust to smooth running, one barrel at a time, OUT to make richer and IN to make leaner; throttle at 7 to 8 M. P. H.

FLANGE GASKET—P-20466.

SPECIAL TOOLS REQUIRED—Use Nash complete Tool Kit **SER-385:** T-24733 Float Adjuster Wrench; T-24967 Main Discharge Jet Remover; T-24924 Main Metering Jet Wrench; T-24970 By-Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burrette Gauge; T-24968 Handle; T-19099 Main Jet Plug Screw Driver.

MOTOR TUNE-UP DATA

SPARK PLUG—.025".
Clean and adjust at regular intervals.

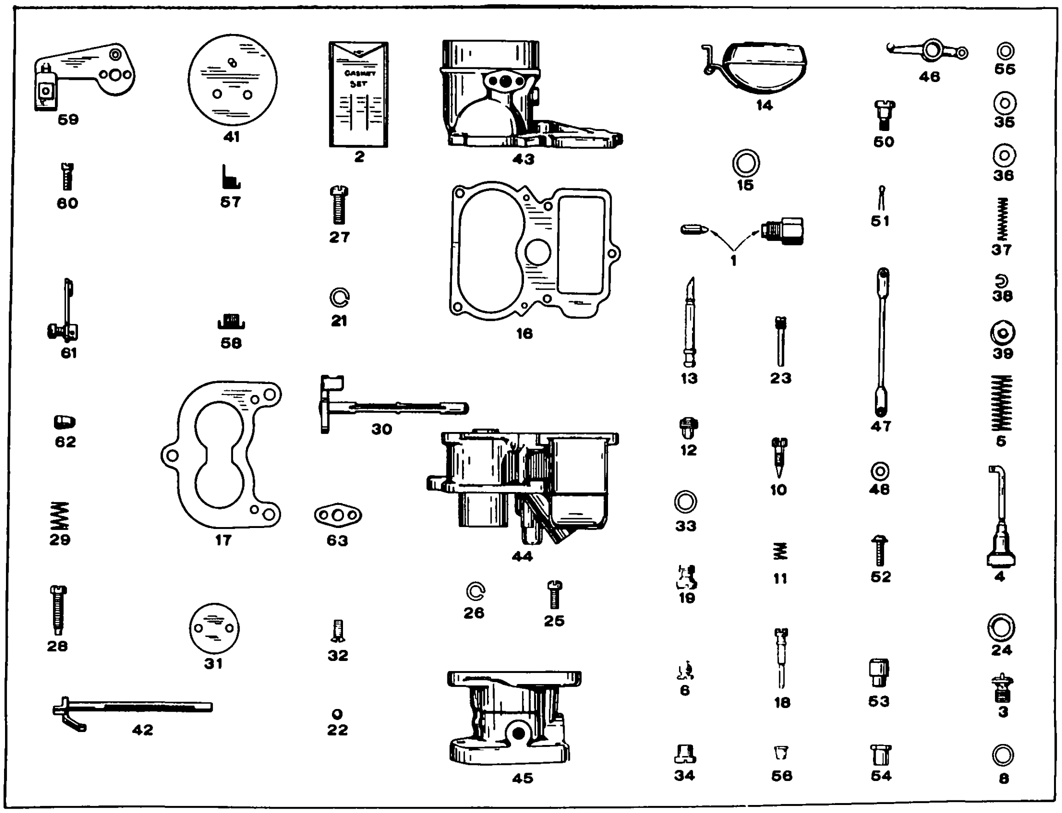
DISTRIBUTOR—.017".
Breaker gap set .017".
Replace if necessary.

VALVES—Intake: .015".
Exhaust: .015". Engine hot.

IGNITION TIMING—Synchronize contacts before timing to open both at the same time. Breaker contacts to open for No. 1 cylinder when "IGN" mark on front flywheel (vibration damper) is in line with pointer on timing case cover.

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No.	Part No.	Part Name
	1	**P-19867**	Float Needle Valve and Seat 113' **(NOT VAR.)**
	2	**J-4383-G**	Complete Gasket Set
	3	**P-19447**	Power By Pass Jet No 63 **(NOT VAR.)**
	4	**P-20986**	Pump Piston and Link **(Includes P-16960)**
	4-A	**P-20970**	Pump Piston, Link and Spring (Complete)
	5	**P-19458**	Spring -Pump Duration
	6	**P-18144**	Pump Inlet Check Valve
	8	**P-19448**	Gasket--By-Pass Jet
	10	**P-17402**	Idle Needle Valve
	11	**P-15481**	Spring -Idle Needle Valve
	12	**P-19442**	Metering Jet **-.047"** **(VAR.)**
	13	**P-20853**	Main Discharge Jet No 32 36 **(NOT VAR.)**
	14	**P-19825**	Float and Lever
	15	**P-10666**	Gasket—Float Needle Valve
	16	**P-19428**	Gasket -Air Horn
	17	**P-19432**	Gasket--Main Body
	18	**P-20419**	Idle Tube
	19	**P-20447**	Plug--Main Discharge Jet
	21	**P-3157**	Lockwasher -Main Body Attach Screw
	22	**P-18772**	Lead Ball
	23	**P-18125**	Screw -Float Lever Fulcrum
	24	**P-16960**	Spring—Pump Piston Leather Expansion
	25	**P-3199**	Screw—Air Horn Attaching
	26	**P-1791**	Lockwasher Air Horn Attaching Screw
	27	**P-13041**	Screw--Main Body Attaching
	28	**P-15456**	Screw -Throttle Stop
	29	**P-15831**	Spring- Throttle Stop Screw
	30	**P-22721**	Throttle Lever and Stem
	31	**P-20720**	Throttle Valve (5°) **(NOT VAR.)**
	32	**P-4522**	Screw Throttle and Choke Valve Attaching
	33	**P-7338**	Gasket Check Valve & Main Disch Jet Plug
	34	**P-19716**	Plug—Check Valve
	35	**P-17380**	Felt Washer—Pump Link
	36	**P-17060**	Washer—Pump Link--Splash
	37	**P-19488**	Spring Packing Retainer

NOTE—For parts marked (VAR.) size must be specified when ordering.

Bin Location	Key No.	Part No.	Part Name
	38	**P-22045**	Washer Horseshoe
	39	**P-22046**	Washer Spring Retainer
	41	**P-19746**	Choke Valve
	42	**P-22730**	Choke Stem and Lever
	43	**P-22728-A**	Air Horn
	43-A	**P-22727**	Assy Air Horn and Valve
	44	**P-21001**	Assy Main Body **1-1/32"** Venturi **No. 70** H S Bleeder **No. 65** Pump Disch Tubes **(VAR.)**
		P-20435	Pump Disch Tube (Right) No 65 **(NOT VAR)**
		P-20436	Pump Disch Tube (Left) No 65 **(NOT VAR.)**
		P-19430	Tube Wedge
	45	**P-22734**	Assy Throttle Body **No. 56-60** Idle Discharge Holes **No. 54** Idle Air Bleeder **(VAR.)**
	46	**P-19427**	Pump Lever
	47	**P 20984**	Pump Rod
	48	**P-10495**	Washer Pump Rod
	*50	***P-19433**	Screw -Pump Lever Fulcrum
	51	**P-7170**	Cotter Pin Pump Link and Rod
	52	**P-17059**	Screw Fulcrum--Choke Lever
	53	**P-17058**	Bushing Choke Lever Fulcrum Screw
	54	**P 20454**	Drive Plug 17/64"
	55	**P-20421**	Gasket Main Discharge Jet -Lead
	56	**P-15458**	Drive Plug No 10
	57	**P-17068**	Spring -Choke Valve Return
	58	**P-17132**	Spring Choke Lever Return
	59	**P-17391**	Assy Tube Holder
		P-17051	Tube Holder
		P-11561	Tube Holder Clamp
		P-12868	Tube Holder Clamp Screw
		P-8806	Tube Holder Clamp Screw Nut
	60	**P-22732**	Screw Choke Tube Holder Attaching
	61	**P-23085**	Choke Lever with Wire Conn and Screw
		P-9270	Wire Connector Screw
	62	**P-20470**	Idle Air Reducer
	63	**P-22733-A**	Spacer—Choke Tube Holder

***P-19433—Right Hand Thread.**
P-20611—Left Hand Thread.

BENDIX PRODUCTS DIVISION
SOUTH BEND **OF BENDIX AVIATION CORPORATION** **INDIANA**

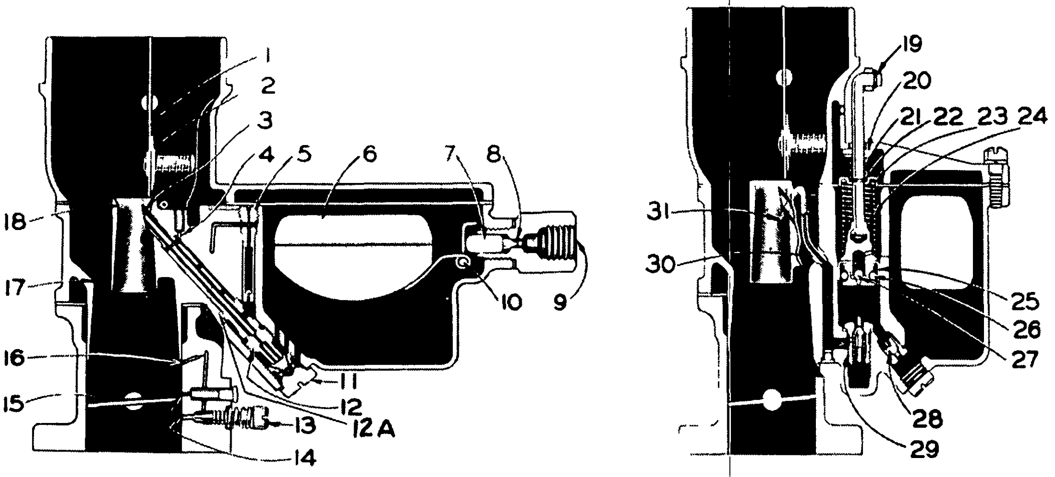
STROMBERG "EE-1" CARBURETOR

STROMBERG NO. A-18141 (CODE NO. 8-27) NASH SYMBOL 92369

SIZE: 1" DUAL D. D. 3-HOLE FLANGE

1937
NASH
MODEL
"3780"
3⅛"x4¼"—8 cyl.

PARTS ILLUSTRATED



1 Choke Valve
2 Poppet Valve
3 Main Discharge Jet
4 High Speed Bleeder
5 Idle Tube
6 Float
7 Float Needle Valve
8 Float Needle Valve Seat
9 Gasoline Inlet
10 Float Fulcrum Pin
11 Main Discharge Jet Plug
12 Metering Jet
12A Main Discharge Jet Gasket
13 Idle Needle Valve
14 Idle Discharge Holes
15 Throttle Valve
16 Idle Air Bleeder
17 Primary Venturi
18 Auxiliary Venturi
19 Pump Piston Link
20 Dust Washer (Felt)
21 Dust Washer Retaining Spring
22 Spring Retainer Lock
23 Spring Retainer Washer
24 Pump Duration Spring
25 Pump Piston
26 Pump Piston Expansion Spring
27 Pump Relief Valve
28 Pump Inlet Check Valve
29 Power By-Pass Jet
30 Pump Discharge Nozzle Holder
31 Pump Discharge Nozzle

Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure 1/2" below top surface of float chamber (without gasket) at 3 lbs. pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level).

MAIN METERING SYSTEM—Venturi **1-1/32"**; Main Discharge Jet **No. 32-36** P-20853 **(Tool T-24967).** Use new Lead Gasket P-20421 assembled on lower shoulder of main discharge jet; High Speed Bleeder **No. 70** in body. Main Metering Jet **.048"** P-19442 **(Tool T-24924);** Use **Tool T-19099** Screw Driver for removing main jet plug. Main metering system controls the flow of fuel up to approximately 65 to 70 M. P. H.

POWER SYSTEM—Combination Power and Pump By-Pass Jet **No. 63** P-19447. The Power Jet is brought into action at approximately 65 to 70 M. P. H. Pump piston to rest on seat of by-pass jet (less over-travel) with throttle valve opened **7/32"** + — **1/64"** drill (maximum pump setting) (measure with shank end of **7/32"** drill); bend pump lever fulcrum arm to obtain correct setting.

ACCELERATION — Pump Discharge Nozzles **No. 65** in main body; Pump capacity **13** to **17** c.c. per 10 fast strokes, and **21** to **25** c.c. per 10 slow strokes with pump rod link set in maximum setting. Use **Tool T-24972.** Pump action takes place during acceleration period only.

IDLE SYSTEM—Idle Discharge holes **No. 56-60.** With throttle valve fully closed and **No. 60** drill in idle hole, edge of valve is located **.030"** + — **.004"** from **No. 60** drill; Idle Air Bleed **No. 70** in idle tube, **No. 54** (in throttle body) P-20470; Idle Tube **No. 55** P-20419. **Adjustment:** Adjust to smooth running, one barrel at a time, OUT to make richer and IN to make leaner; throttle at 7 to 8 M. P. H.

FLANGE GASKET—P-20466.

SPECIAL TOOLS REQUIRED—Use Nash complete Tool Kit **SER-385;** T-24733 Float Adjuster Wrench; T-24967 Main Discharge Jet Remover; T-24924 Main Metering Jet Wrench; T-24970 By-Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burrette Gauge; T-24968 Handle; T-19099 Main Jet Plug Screw Driver.

MOTOR TUNE-UP DATA

SPARK PLUG—.025".
Clean and adjust at regular intervals.

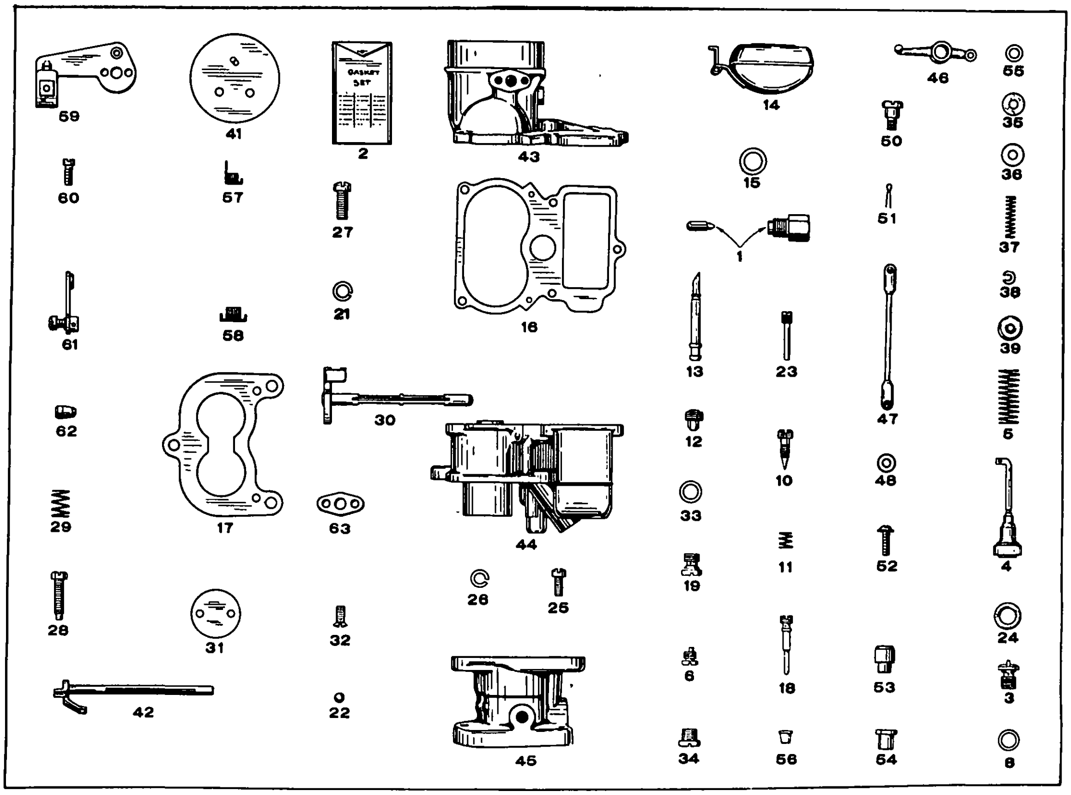
DISTRIBUTOR—.017".
Breaker gap set .017".
Replace if necessary.

VALVES—Intake: .015".
Exhaust: .015". **Engine hot.**

IGNITION TIMING—Synchronize contacts before timing to open both at the same time. Breaker contacts to open for No. 1 cylinder when "IGN" mark on front flywheel (vibration damper) is in line with pointer on timing case cover.

SERVICE RECOMMENDATION — Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No.	Part N .	Part Name
	1	**P-19867**	Float Needle Valve & Seat—.113" ....**(NOT VAR.)**
	2	**J-4383-G**	Complete Gasket Set
	3	**P-19447**	Power By-Pass Jet—No. 63 ....**(NOT VAR.)**
	4	**P-20986**	Pump Piston & Link ....**(Includes P-16960)**
	4-A	**P-20970**	Pump Piston, link and Spring (Complete)
	5	**P-19458**	Spring—Pump Duration
	6	**P-18144**	Pump Inlet Check Valve
	8	**P-19448**	Gasket—By-Pass Jet
	10	**P-17402**	Idle Needle Valve
	11	**P-15481**	Spring—Idle Needle Valve
	12	**P-19442**	Metering Jet—**.048"** ....**(VAR.)**
	13	**P-20853**	Main Discharge Jet No. 32-36 ....**(NOT VAR.)**
	14	**P-19825**	Float and Lever
	15	**P-10666**	Gasket—Float Needle Valve Seat
	16	**P-19428**	Gasket—Air Horn
	17	**P-19432**	Gasket—Main Body
	18	**P-20419**	Idle Tube
	19	**P-20447**	Plug—Main Discharge Jet
	21	**P-3157**	Lockwasher—Main Body Attach. Screw
	22	**P-18772**	Lead Ball
	23	**P-18125**	Screw—Float Lever Fulcrum
	24	**P-16960**	Spring—Pump Piston Leather Expansion
	25	**P-3199**	Screw—Air Horn Attach.
	26	**P-1791**	Lockwasher—Air Horn Attach. Screw
	27	**P-13041**	Screw—Main Body Attach.
	28	**P-15456**	Screw—Throttle Stop
	29	**P-15831**	Spring—Throttle Stop Screw
	30	**P-22721**	Throttle Lever & Stem
	31	**P-20720**	Throttle Valve (5°) ....**(NOT VAR.)**
	32	**P-4522**	Screw—Throttle & Choke Valve Attach.
	33	**P-7338**	Gasket—Check Valve and Main Discharge Jet Plug
	34	**P-19716**	Plug—Check Valve
	35	**P-17380**	Felt Washer—Pump Link
	36	**P-17060**	Washer—Pump Link—Splash
	37	**P-19488**	Spring—Packing Retainer
	38	**P-22045**	Washer—Cup
	39	**P-22046**	Washer—Spring Retainer
	41	**P-19746**	Choke Valve

Bin Location	Key No.	Part No.	Part Name
	42	**P-22730**	Choke Stem & Lever
	43	**P-22728-A**	Air Horn
	43-A	**P-22727**	Air Horn & Valve (Complete)
	44	**P-21001**	Main Body **1-1/32** Venturi **No. 70** High Speed Bleeder—Pump Discharge Tube ....**(VAR.)**
		P-20435	Pump Disch. Tube (Right) No. 65 ....**(NOT VAR.)**
		P-20436	Pump Disch. Tube (Left) No. 65 ....**(NOT VAR.)**
		P-19430	Pump Tube Wedge
	45	**P-22734**	Assy.—Throttle Body **No. 56-60** Idle Discharge Holes—**No. 54** Idle Air Bleed ....**(VAR.)**
	46	**P-19427**	Pump Lever
	47	**P-20984**	Pump Rod
	48	**P-10495**	Washer—Pump Rod
	*50	***P-19433**	Screw—Pump Lever Fulcrum
	51	**112-S-22**	Cotter Pin—Pump Link & Rod
	52	**P-17059**	Screw—Fulcrum—Choke Lever
	53	**P-17058**	Bushing—Choke Lever Fulcrum Screw
	54	**P-20454**	Drive Plug (17/64)
	55	**P-20421**	Gasket—Main Discharge Jet (Lead)
	56	**P-15458**	Drive Plug No. 10
	57	**P-17068**	Spring—Choke Valve Return
	58	**P-17132**	Spring—Choke Lever Return
	59	**P-17391**	Assy.—Tube Holder
		P-17051	Tube Holder
		P-11561	Tube Holder Clamp
		P-12868	Tube Holder Clamp Screw
		P-8806	Tube Holder Clamp Screw Nut
	60	**P-22732**	Screw—Choke Tube Holder Attach.
	61	**P-23085**	Choke Lever with Wire Conn. & Screw
		P-9270	Wire Connector Screw
	62	**P-20470**	Idle Air Reducer No. 54 ....**(NOT VAR.)**
	63	**P-22733-A**	Spacer—Choke Tube Holder

*Note: When servicing or ordering parts for the above carburetor note the following part difference:

P-19433	Pump Lever Fulcrum Screw (Right Hand Thrd.)
P-20611	Pump Lever Fulcrum Screw (Left Hand Thrd.)

NOTE—For parts marked (VAR.) size must be specified when ordering.

BENDIX PRODUCTS DIVISION
SOUTH BEND **OF BENDIX AVIATION CORPORATION** **INDIANA**

STROMBERG "EX-32" CARBURETOR

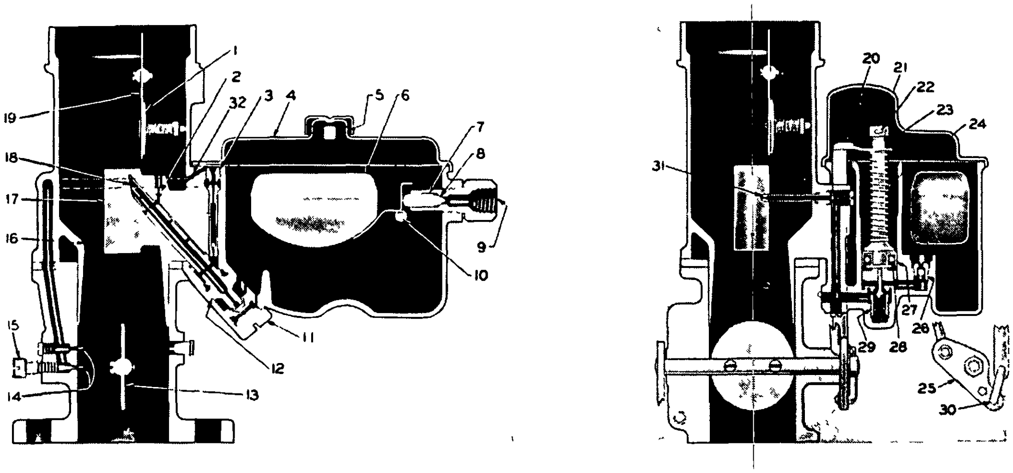
STROMBERG NO. A-18143 (CODE NO. 8-26A) NASH SYMBOL 92765

SIZE: 1½" D. D. S.A.E. 2-15/16" FLANGE CENTERS.

1937
NASH
MODEL
3720
3⅜"x4⅜"—6 cyl.

PARTS ILLUSTRATED

1 Poppet Valve
2. High Speed Bleed
3 Idle Tube
4 Float Chamber Cover
5. Float Chamber Vent
6. Float
7. Float Needle Valve
8. Float Needle Valve Seat
9. Gasoline Inlet
10. Float Fulcrum Pin
11 Main Discharge Jet Plug
12. Main Metering Jet
13. Throttle Valve
14. Idle Discharge Holes
15. Idle Needle Valve
16. Primary Venturi
17 Auxiliary Venturi
18. Main Discharge Jet
19. Choke Valve
20. Pump Rod
21. Power Adjustment Nut
22 Cotter Pin
23. Piston Connecting Rod
24. Connecting Rod Spring
25. Pump Lever
26 Check Valve
27 Pump Piston
28. Pump Piston Spring
29. Power By-Pass Jet
30 Pump Lever Link
31 Pump Discharge Nozzle



Note—Specifications below are for latest production, previous major changes listed on Parts Page .

FUEL LEVEL—Measure **3/4"** below top surface of float chamber (without gasket) at 3 lbs. pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level).

MAIN METERING SYSTEM—Venturi **1-3/16"**; Main Discharge Jet **No. 32** P-19546 **(Tool T-24967)**; High Speed Bleeder **No. 70** in body; Main Metering Jet **.062"** P-17004 **(Tool T-23844)**; Use **Tool T-19099** Screw Driver for removing main jet plug. Main metering system controls the flow of fuel up to approximately 65 to 70 M. P. H.

POWER SYSTEM—Combination Power and Pump By-Pass Jet **4 No. 56** P-18149. The Power Jet is brought into action at approximately 65 to 70 M. P. H. Pump piston to rest on seat of by-pass jet (less over-travel) with throttle valve opened **27/64" + — 1/64"** drill (maximum pump setting) (measure with shank end of **27/64"** drill); adjust pump stem nut to obtain correct setting.

ACCELERATION—Pump Discharge Nozzle **No. 61** P-22926; Pump capacity **9** to **13** c.c. per 10 fast strokes, and **13** to **17** c.c. per 10 slow strokes with pump rod link set in minimum setting. Use **Tool T-24972.** Pump action takes place during acceleration period only.

IDLE SYSTEM—Idle Discharge holes **Nos. 56-58.** With throttle valve fully closed and **No. 58** drill in idle hole, edge of valve is located **.012" + — .004"** from **No. 58** drill; Idle Air Bleed **No. 44** P-15477; Idle Tube **No. 70** P-17007. **Adjustment:** Adjust to smooth running, OUT to make richer and IN to make leaner; throttle at 7 to 8 M. P. H.

FLANGE GASKET—P-4753.

SPECIAL TOOLS REQUIRED—Use Nash complete Tool Kit **SER-385;** T-24733 Float Adjuster; T-24967 Main Discharge Jet Remover; T-23844 Main Metering Jet Wrench; T-24970 By-Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burrette Gauge; T-24968 Handle; T-19099 Main Jet Plug Screw Driver.

MOTOR TUNE-UP DATA

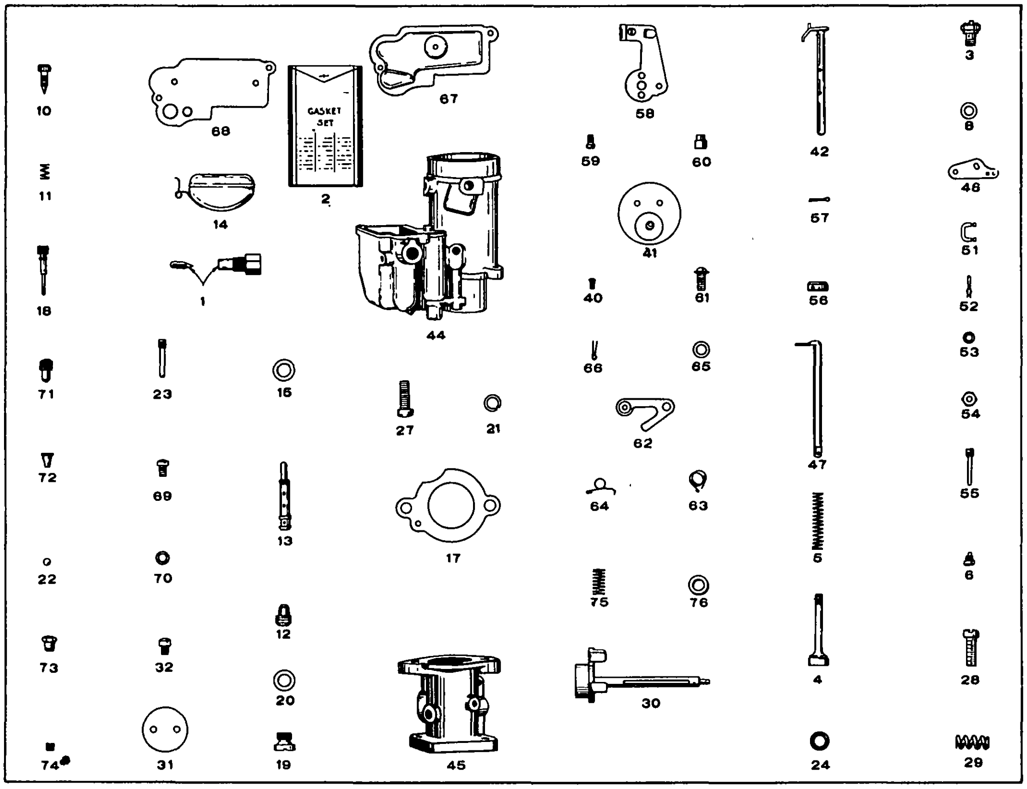
SPARK PLUG—.025".
Clean and adjust at regular intervals.

DISTRIBUTOR—.020".
Breaker gap set .020".
Replace if necessary.

VALVES—Intake: .015".
Exhaust: .015". Engine hot.

IGNITION TIMING—Synchronize contacts before timing to open both at same time. Breaker contacts to open for No. 1 cylinder when "IGN" mark on front flywheel (vibration damper) is in line with pointer on chain case cover.

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No.	Part No.	Part Name
	1	**P-18916**	Float Needle Valve & Seat—.086" ......**(NOT VAR.)**
	2	**J-4364-G**	Complete Gasket Set
	3	**P-18149**	Power By-Pass Jet—No. 56 ....(......**(NOT VAR.)**
	4	**P-19167**	Pump Piston & Stem ....**(Includes P-19660)**
	5	**P-18221**	Spring (Upper) Pump Duration
	6	**P-18144**	Check Valve—Pump Inlet
	8	**P-6855**	Gasket—By-Pass Jet
	10	**P-17402**	Idle Needle Valve
	11	**P-15481**	Spring—Idle Needle Valve
	12	**P-17004**	Metering Jet—**.062"** ....**(VAR.)**
	13	**P-19546**	Main Discharge Jet—No. 36 .... **(NOT VAR.)**
	14	**P-17486**	Float with Lever
	15	**P-10666**	Gasket—Float Needle Valve Seat
	17	**P-17557**	Gasket—Main Body
	18	**P-17007**	Idle Tube—No. 70 ....**(NOT VAR.)**
	19	**P-18130**	Plug—Main Discharge Jet
	20	**P-60308**	Gasket—Main Discharge Jet Plug
	21	**P-8838**	Lockwasher—Main Body Attach. Screw
	22	**P-18772**	Lead Ball
	23	**P-18125**	Screw—Fulcrum—Float Lever
	24	**P-16960**	Spring—Pump Piston Leather Expansion
	27	**P-17000**	Screw—Main Body Attach.
	28	**P-15456**	Screw—Throttle Stop
	29	**P-15831**	Spring—Throttle Stop Screw
	30	**P-20867**	Throttle Stem & Lever
	31	**P-5436**	Throttle Valve **(20°)** ....**(VAR.)**
	32	**P-16716**	Screw—Throttle Valve Attach.
	40	**P-4522**	Screw—Choke Valve Attach.
	41	**P-18277**	Choke Valve
	42	**P-18314**	Choke Stem & Stop
	44	**P-17893**	Assy.—Main Body **1-3/16"** Venturi **No. 70** H. S. Bleeder ....**(VAR.)**
	45	**P-18373**	Throttle Body **No. 56-58** Idle Disch. Holes **(VAR.)**
	46	**P-18145**	Pump Lever
	47	**P-19165**	Pump Rod
	51	**P-18141**	Pump Link
	52	**P-18114**	Cotter Pin—Pump Link
	53	**P-1791**	Lockwasher—Lever Pump Nut
	54	**P-2290**	Nut—Pump Lever
	55	**P-22926**	Nozzle—Pump Disch. **No. 61** ....**(VAR.)**
	56	**P-18135**	Nut—Pump Rod
	57	**P-4**	Cotter Pin—Pump Rod Nut
	58	**P-17391**	Assy.—Choke Tube Holder
		P-17051	Tube Holder
		P-11561	Tube Holder Clamp
		P-12868	Tube Holder Clamp Screw
		P-8806	Tube Holder Clamp Screw Nut
	59	**P-17093**	Screw—Choke Tube Holder Attach.
	60	**P-17058**	Bushing—Choke Lever
	61	**P-17059**	Screw—Choke Lever Fulcrum
	62	**P-23085**	Choke Lever with Wire Conn. & Screw
		P-9270	Wire Connector Screw
	63	**P-17132**	Spring—Choke Lever Return
	64	**P-17068**	Spring—Choke Valve Return
	65	**P-17449**	Washer—Choke Stem
	66	**P-6666**	Cotter Pin—Choke Stem
	67	**P-18124-F**	Float Cover
	68	**P-17778**	Gasket—Float Cover
	69	**P-2866**	Screw—Float Cover Attach.
	70	**P-12167**	Lockwasher—Float Cover Attach. Screw
	71	**P-15477**	Idle Air Bleeder—**No. 50** ....**(VAR.)**
	72	**P-15459**	Plug—Idle Disch. Drilling Hole— ¼"
	73	**P-21053**	Plug—Pump Disch. Channel
	74	**P-6387**	Plug—Idle Disch. Holes—No. 10-32
	75	**P-18223**	Spring (Lower) Pump Duration
	76	**P-4735**	Washer—Follow Up Spring Separator

NOTE—For parts marked (VAR.) size must be specified when ordering.

BENDIX PRODUCTS DIVISION
SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

STROMBERG "AX-2" CARBURETOR

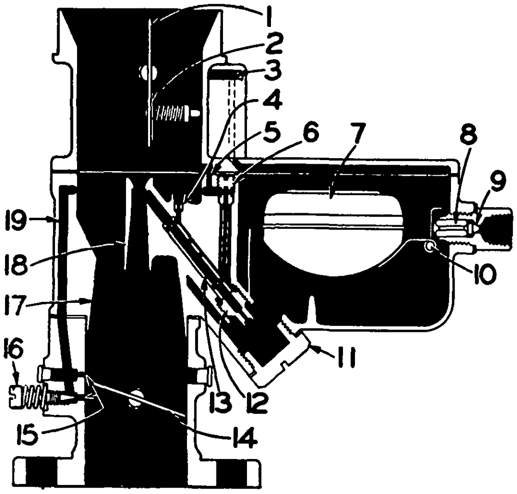
1936
NASH
MODEL
"3640"
3⅜"x4⅜"—6 cyl.

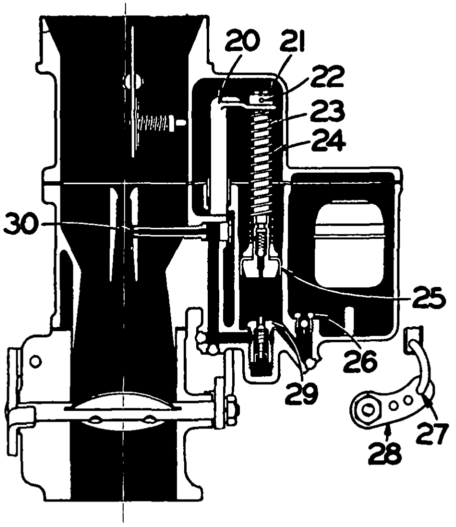
STROMBERG NO. A-18322 (CODE NO. 8-25A) NASH SYMBOL 90457

SIZE: 1¼" D. D. S. A. E. 2-11/16" FLANGE CENTERS **REPLACE WITH BXOV-2 EQPT. J-5506**

PARTS ILLUSTRATED

1 Choke Valve
2 Choke Relief Valve
3 Float Chamber Vent
4 High Speed Bleeder
5 Idle Air Bleeder
6 Idle Tube
7 Float
8 Float Needle Valve
9 Float Needle Valve Seat
10 Float Fulcrum Pin
11 Main Discharge Jet Plug
12 Main Metering Jet
13 Main Discharge Jet
14 Throttle Valve
15 Idle Discharge Holes
16 Idle Needle Valve
17 Primary Venturi
18 Auxiliary Venturi
19. Idle Channel
20 Pump Rod
21 Power Adjustment Nut
22 Cotter Pin
23 Pump Piston Connecting Rod
24 Pump Duration Spring
25 Pump Piston
26 Pump Inlet Check Valve
27 Pump Adjustment Link
28 Pump Lever
29 Power By-Pass Jet
30 Pump Discharge Nozzle





Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **5/8"** below top surface of float chamber (without gasket) at 3 lbs. pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level.)

MAIN METERING SYSTEM—Venturi **1⅛"**; Main Discharge Jet **No. 32** P-21766 **(Tool T24967)**; High Speed Bleeder **No. 70** (in main body); Main Metering Jet **.056"** P-19442 **(Tool T-24924).** Use **Tool T-19099** to remove Main Jet Plug; Main Metering System controls the flow of fuel up to approximately 65 to 70 M. P. H.

POWER SYSTEM—Combination Power and Pump By-Pass Jet **2 No. 56** P-21766. Pump piston to rest on seat of by-pass jet (less over-travel) with throttle valve opened **21/64"** (link in end hole of pump lever) (measure with shank end of **21/64"** drill) adjust pump stem nut to obtain correct setting. The Power Jet is brought into action at approximately 65 to 70 M. P. H.

ACCELERATION—Pump Discharge Nozzle **No. 59** P-21944; Pump capacity **11** to **15** c.c. per 10 fast strokes and **18** to **22** cc.. per 10 slow strokes. (Maximum setting.) Middle setting between April 1 and Sept. 30. **(Tool T-24972)** Pump action takes place during acceleration period only.

IDLE SYSTEM—Idle Discharge Holes **No. 56-58**; with throttle valve fully closed and **No. 58** drill in idle hole, edge of valve is located **.012"** + — **.004"** from **No. 58** drill; Idle Air Bleed **No. 53** (in main body); Idle Tube **No. 68** P-21962. **Adjustment:** Adjust to smooth running, OUT to make richer and IN to make leaner. Throttle at 7 to 8 M. P. H.

FLANGE GASKET—P-4752.

SPECIAL TOOLS REQUIRED—Use Nash complete Tool Kit **SER. 385**; T-24733 Float Adjuster; T-24967 Main Discharge Jet Remover; T-24924 Main Metering Jet Wrench; T-24970 By-Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burrette Gauge; T-24968 Handle; T-19099 Main Jet Plug Screw Driver.

MOTOR TUNE-UP DATA

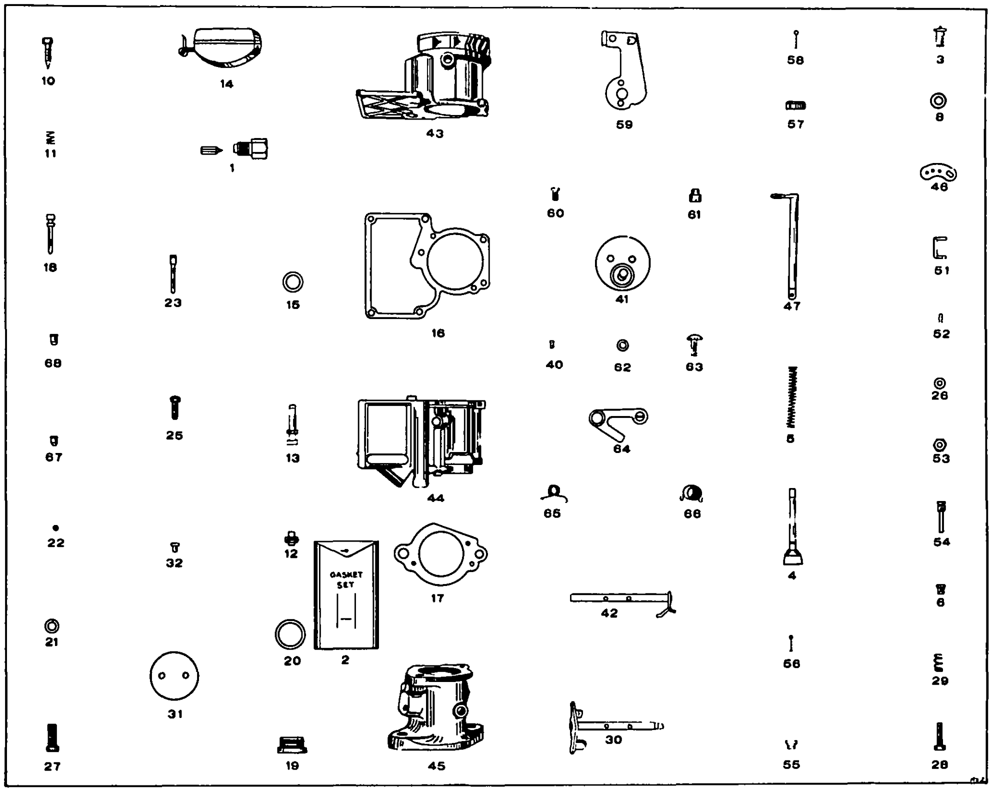
SPARK PLUGS—.025".
Clean and adjust at regular intervals.

DISTRIBUTOR—.020".
Breaker gap set .020".
Replace if necessary.

VALVES—Intake: .015".
Exhaust: .015". **Engine hot.**

IGNITION TIMING—Breaker contacts to open for No. 1 cylinder when "IGN" mark on front flywheel (vibration damper) is in line with pointer on chain case cover.

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key N.	Part N.	Part Name	
	1	P-21918	Float Needle Valve and Seat—093	(NOT VAR)
	2	J-4611-G	Complete Gasket Set	
	3	P-21776	Power By-Pass Jet No 56	(NOT VAR.)
	4	P-21768	Pump Piston and Stem	
	5	P-21960	Spring—Pump Duration	
	6	P-18144	Pump Inlet Check Valve	
	8	P-19448	Gasket—By Pass Jet	
	10	P-17402	Idle Needle Valve	
	11	P-15481	Spring—Idle Needle Valve	
	12	P-19442	Metering Jet .056"	(VAR.)
	13	P-21766	Main Discharge Jet No 32	(NOT VAR.)
	14	P-19825	Float with Lever	
	15	P-10666	Gasket—Float Needle Valve Seat	
	16	P-21790	Gasket—Air Horn	
	17	P-21780	Gasket—Main Body	
	18	P-21962	Idle Tube No 68	(NOT VAR.)
	19	P-21767	Plug—Main Discharge Jet	
	20	P-22851	Gasket—Main Discharge Jet Plug	
	21	P-3157	Lockwasher—Main Body Attaching Screw	
	22	P-18772	Lead Ball	
	23	P 18125	Screw—Fulcrum—Float Lever	
	25	P-3199	Screw—Air Horn Attaching	
	26	P-1791	Lockwasher—Air Horn Attaching Screw	
	27	P-13041	Screw—Main Body Attaching	
	28	P 15456	Screw—Throttle Stop	
	29	P-15831	Spring—Throttle Stop Screw	
	30	P-21781	Throttle Lever and Stem	
	31	P-6454	Throttle Valve (18½°)	(VAR.)
	32	P-16717	Screw—Throttle Valve Attach	
	40	P-4522	Screw—Choke Valve Attaching	
	41	P-21784	Ch ke Valve	

NOTE—For parts marked (VAR.) size must be specified when rdering.

Bin Location	Key No.	Part No.	Part Name	
	42	P-21912	Choke Stem and Stop	
	43	P-21763-A	Air Horn	
	43-A	P 21783	Assy Air Horn and Valve	
	44	P-21772-A	Assy—Main Body 1⅛" Venturi No. 70 H. S. Bleeder No. 53 Idle Air Bleed	(VAR.)
	45	P-21764	Throttle Body No. 56-58 Idle Disch Holes	(VAR.)
	46	P 21774	Pump Lever	
	47	P 21775	Pump Rod	
	51	P-20958	Pump Link	
	52	P-18366	Cotter Pin—Pump Link	
	53	P-2290	Nut—Pump Lever Attach	
	54	P-21944	Pump Discharge Nozzle No. 59	(VAR.
	55	P 21949	Plug—Pump Disch Channel	
	56	P-6666	Cotter Pin—Choke Stem	
	57	P 18135	Nut—Pump Stem Adj	
	58	P-4	Cotter Pin—Pump Adj Nut	
	59	P-17067	Assy—Choke Tube Holder	
		P-17051	Tube Holder	
		P 11561	Tube Holder Clamp	
		P 12868	Tube Holder Clamp Screw	
		P 8806	Tube Holder Clamp Screw Nut	
	60	P-17093	Screw—Choke Tube Holder Attach	
	61	P-17058	Bushing—Choke Lever Fulcrum Screw	
	62	P-4735	Washer—Choke Stem	
	63	P 17059	Screw—Choke Lever Fulcrum	
	64	P-23085	Choke Lever with Wire Connector & Screw	
		P 9270	Wire Connector Screw	
	65	P-17068	Spring—Choke Valve Return	
	66	P-17132	Spring—Choke Lever Return	
	67	P-15459	Plug—Idle Disch Channel ¼"	
	68	P 15458	Plug—Idle Disch Channel No 10	

BENDIX PRODUCTS DIVISION

SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

Printed in U S A

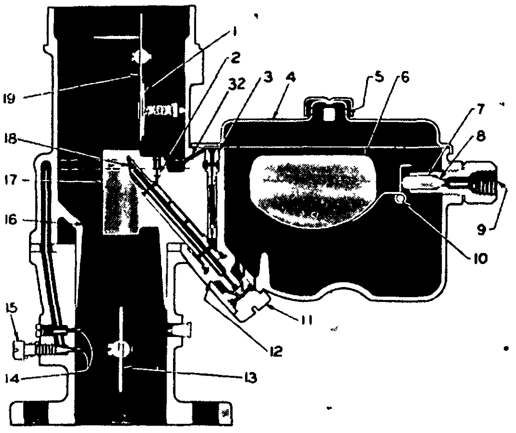
STROMBERG "EX-22" CARBURETOR

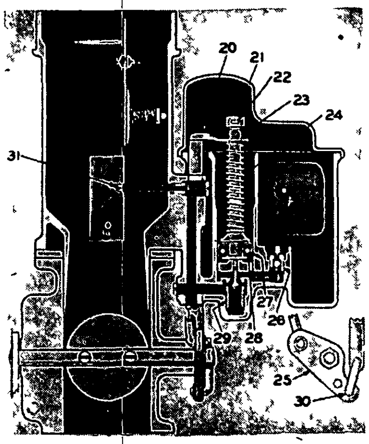
1935-36
NASH
1935 MODEL
3540
1936 MODEL
3640
3⅜"x4⅜"—6 cyl.

STROMBERG NO. A-18132 NASH SYMBOL 49050-A

SIZE: 1¼" D. D. S.A.E. 2-11/16" FLANGE CENTERS **REPLACE WITH BXOV-2 EQPT. J-5506**

PARTS ILLUSTRATED





1 Poppet Valve
2 High Speed Bleed
3 Idle Tube
4 Float Chamber Cover
5 Float Chamber Vent
6 Float
7 Float Needle Valve
8 Float Needle Valve Seat
9 Gasoline Inlet
10 Float Fulcrum Pin
11 Main Discharge Jet Plug
12 Main Metering Jet
13 Throttle Valve
14 Idle Discharge Holes
15 Idle Needle Valve
16 Primary Venturi
17 Auxiliary Venturi
18 Main Discharge Jet
19 Choke Valve
20 Pump Rod
21 Power Adjustment Nut
22 Cotter Pin
23 Piston Connecting Rod
24 Connecting Rod Spring
25 Pump Lever
26 Check Valve
27 Pump Piston
28 Pump Piston Spring
29 Power By-Pass Jet
30 Pump Lever Link
31 Pump Discharg Nozzle

Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **5/8"** below top surface of float chamber (without gasket) at 3 lbs. pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level).

MAIN METERING SYSTEM—Venturi **1-5/32"**; Main Discharge Jet **No. 32** P-20885 **(Tool T-24967)**; High Speed Bleeder **No. 70** in body. Main Metering Jet **.057"** P-17004 **(Tool T-23844)**; Use **Tool T-19099** Screw Driver for removing main jet plug. Main metering system controls the flow of fuel up to approximately 65 to 70 M. P. H.

POWER SYSTEM—Combination Power and Pump By-Pass Jet **4 No. 56** P-18149. The Power Jet is brought into action at approximately 65 to 70 M. P. H. Pump piston to rest on seat of by-pass jet (less over-travel) with throttle valve opened **23/64"**+ — **1/64"** drill (maximum pump setting); (measure with shank end of **23/64"** drill); adjust pump stem nut to obtain correct setting.

ACCELERATION — Pump Discharge Nozzles **No. 64** P-18126; Pump capacity **18** to **22** c.c. per 10 strokes, with pump rod link set in maximum setting. Use **Tool T-24972.** Pump action takes place during acceleration period only.

IDLE SYSTEM—Idle Discharge holes **Nos. 56-58.** With throttle valve fully closed and **No. 58** drill in idle hole, edge of valve is located **.012"** + — **.004"** from **No. 58** drill; Idle Air Bleed **No. 54** P-15477; Idle Tube **No. 70** P-17007. **Adjustment:** Adjust to smooth running, OUT to make richer and IN to make leaner; throttle at 7 to 8 M P H.

FLANGE GASKET—P-4752.

SPECIAL TOOLS REQUIRED—Use Nash complete Tool Kit **SER-385;** T-24733 Float Adjuster Wrench; T-24967 Main Discharge Jet Remover; T-23844 Main Metering Jet Wrench; T-24970 By-Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burrette Gauge; T-24968 Handle; T-19099 Main Jet Plug Screw Driver.

MOTOR TUNE-UP DATA

SPARK PLUG—.025".
Clean and adjust at regular intervals.

DISTRIBUTOR—.018" to .020".
Breaker gap set .018" to .020".
Replace if necessary.

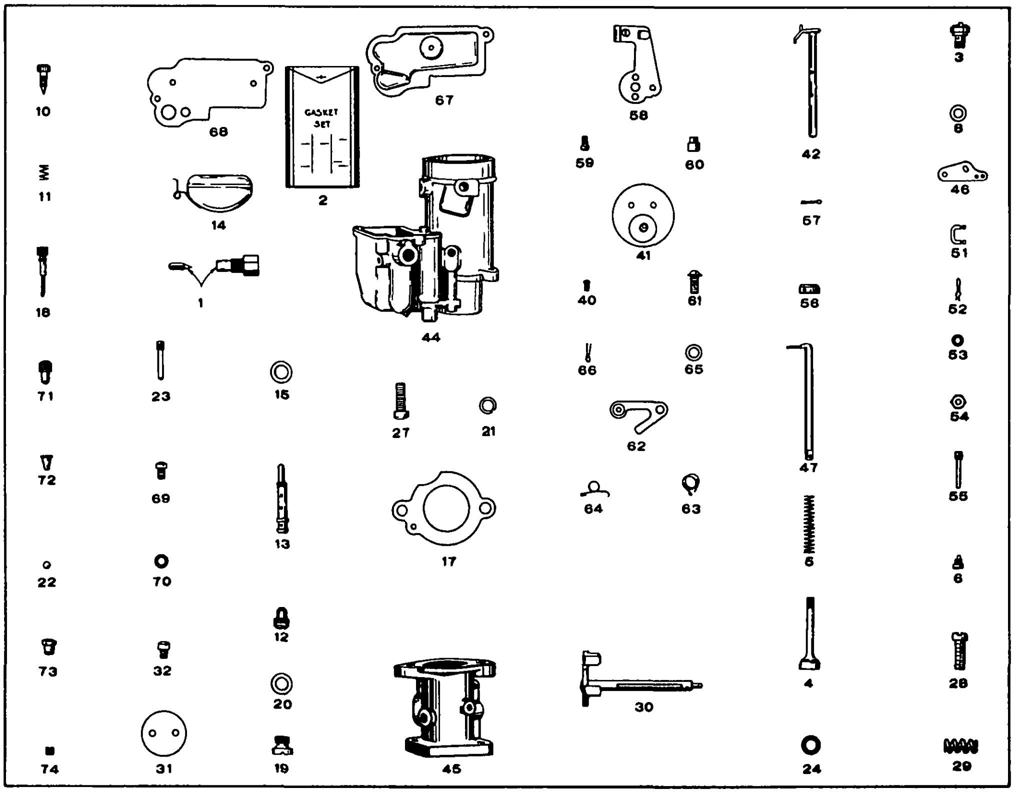
SERVICE RECOMMENDATION — Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

IGNITION TIMING—Breaker contacts to open for No. 1 cylinder when "IGN" mark on front flywheel (vibration damper) is in line with pointer on timing case cover.

Engines having a red plate stamped on side of distributor and using marked "Caution—Set IGN on D.C." must be set at top dead center regardless of location of the "IGN" line on vibration damper.

VALVES—Intake: .015".
Exhaust: .015". **Engine hot.**

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No.	Part No.	Part Name
	1	P 18913	Float Needle Valve and Seat—113' (NOT VAR.)
	2	J-4362-G	Complete Gasket Set
	3	P 18149	Power By Pass Jet No 56 (NOT VAR)
	4	P 19527	Pump Piston and Stem (Includes P 16960)
	5	P 18215	Spring—Pump Duration
	6	P 18144	Check Valve—Pump Inlet
	8	P-6855	Gasket—By Pass Jet
	10	P 17402	Idle Needle Valve
	11	P 15481	Spring—Idle Needle Valve
	12	P 17004	Metering Jet—.057" (VAR.)
	13	P 20885	Main Discharge Jet—No 32 (NOT VAR)
	14	P 17486	Float with Lever
	15	P 10666	Gasket—Float Needle Valve Seat
	17	P 16943	Gasket—Main Body
	18	P 17007	Idle Tube—No 70 (NOT VAR.)
	19	P 18130	Plug—Main Discharge Jet
	20	P 60308	Gasket—Main Discharge Jet Plug
	21	P-6592	Lockwasher—Main Body Attach Screw
	22	P 18772	Lead Ball
	23	P 18125	Screw—Fulcrum—Float Lever
	24	P 16960	Spring—Pump Piston Leather Expansion
	27	P 17000	Screw—Main Body Attach
	28	P 15456	Screw—Throttle Stop
	29	P 15831	Spring—Throttle Stop Screw
	30	P 18255	Throttle Lever and Stem
	31	P 6454	Throttle Valve (18 1/2°) (VAR)
	32	P 16717	Screw—Throttle Valve Attach
	40	P-4522	Screw—Choke Valve Attach
	41	P 17010	Choke Valve
	42	P 18266	Stem and Stop—Choke
	44	P 18322	Main Body No. 1-5/32" Venturi No. 70 High Speed Bleeder (VAR)
	45	P-21173	Throttle Body No. 56-58 Idle Disch Holes (VAR.)
	46	P 18331	Pump Lever
	47	P 19165	Pump Rod
	51	P 18141	Pump Link
	52	P 18114	Cotter Pin—Pump Link
	53	P-1791	Lockwasher—Pump Lever Attach Nut
	54	P 2290	Nut—Pump Lever Attach
	55	P 18126	Nozzle—Pump Discharge No. 64 (VAR.)
	56	P 18135	Nut—Pump Rod
	57	P-4	Cotter Pin—Pump Rod Nut
	58	P-17067	Assy —Choke Tube Holder
		P 17051	Tube Holder
		P 11561	Tube Holder Clamp
		P 12868	Tube Holder Clamp Screw
		P-8806	Tube Holder Clamp Screw Nut
	59	P 17093	Screw—Choke Tube Holder Attach
	60	P 17058	Bushing—Choke Lever
	61	P 17059	Screw—Choke Lever Fulcrum
	62	P 23085	Choke Lever with Wire Conn and Screw
		P 9270	Wire Connector Screw
	63	P 17132	Spring—Choke Lever Return
	64	P 17068	Spring—Choke Valve Return
	65	P-17449	Washer— Choke Stem
	66	P 6666	Cotter Pin—Choke Stem
	67	P 18124 F	Floa —Cover
	68	P 17778	Gasket—Float Cover
	69	P 2866	Screw—Float Cover Attach
	70	P 12167	Lockwasher—Float Cover Attach Screw
	71	P 15477	Idle Air Bleeder No. 54 (VAR.)
	72	P 15459	Plug—Idle Discharge Drilling Hole ¼"
	73	P 21053	Plug—Pump Discharge Channel
	74	P-6387	Plug—Idle Discharge Hole No 10-32

NOTE—For parts marked (VAR) size must be specified when ordering

BENDIX PRODUCTS DIVISION
SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

STROMBERG "EX-32" CARBURETOR

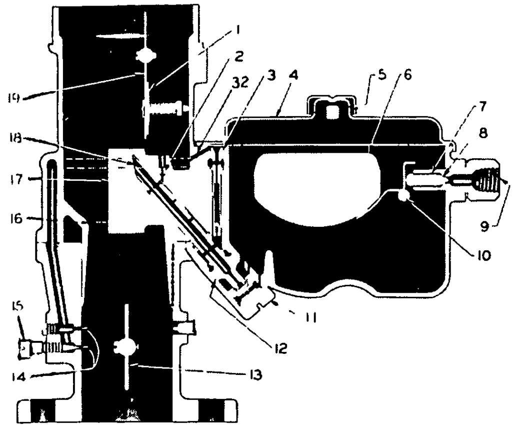
1935-36
NASH
1935 MODEL
3520
1936 MODEL
3620
3⅜"x4⅜"—8 cyl.

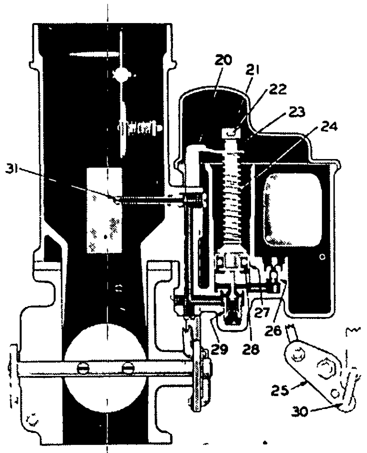
STROMBERG NO. A-18063 NASH SYMBOL 47603-A

SIZE: 1½" D. D. S.A.E. 2-15/16" FLANGE CENTERS

PARTS ILLUSTRATED

1 Poppet Valve
2 High Speed Bleed
3 Idle Tube
4 Float Chamber Cover
5 Float Chamber Vent
6 Float
7 Float Needle Valve
8 Float Needle Valve Seat
9 Gasoline Inlet
10 Float Fulcrum Pin
11 Main Discharge Jet Plug
12 Main Metering Jet
13 Throttle Valve
14 Idle Discharge Holes
15 Idle Needle Valve
16 Primary Venturi
17 Auxiliary Venturi
18 Main Discharge Jet
19 Choke Valve
20 Pump Rod
21 Power Adjustment Nut
22 Cotter Pin
23 Piston Connecting Rod
24 Connecting Rod Spring
25 Pump Lever
26 Check Valve
27 Pump Piston
28 Pump Piston Spring
29 Power By-Pass Jet
30 Pump Lever Link
31 Pump Discharge Nozzle





Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **5/8"** below top surface of float chamber (without gasket) at 3 lbs. pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level).

MAIN METERING SYSTEM—Venturi **1-3/16";** Main Discharge Jet **No. 32** P-20885 **(Tool T-24967);** High Speed Bleeder **No. 70** in body; Main Metering Jet **.064"** P-17004 **(Tool T-23844);** Use **Tool T-19099** Screw Driver for removing main jet plug. Main metering system controls the flow of fuel up to approximately 65 to 70 M. P. H.

POWER SYSTEM—Combination Power and Pump By-Pass Jet **4 No. 56** P-18149. The Power Jet is brought into action at approximately 65 to 70 M. P. H. Pump piston to rest on seat of by-pass jet (less over-travel) with throttle valve opened **27/64" + — 1/64"** drill (maximum pump setting) (measure with shank end of **27/64"** drill); adjust pump stem nut to obtain correct setting.

ACCELERATION — Pump Discharge Nozzle **No. 67** P-18126; Pump capacity **9** to **13** c.c. per 10 fast strokes, and **17** to **19** c.c. per 10 slow strokes with pump rod link set in maximum setting. Use **Tool T-24972.** Pump action takes place during acceleration period only.

IDLE SYSTEM—Idle Discharge holes **Nos. 56-58.** With throttle valve fully closed and **No. 58** drill in idle hole, edge of valve is located **.012" + — .004"** from **No. 58** drill; Idle Air Bleed **No. 50** P-15477; Idle Tube **No. 70** P-17007. **Adjustment:** Adjust to smooth running, OUT to make richer and IN to make leaner; throttle at 7 to 8 M. P. H.

FLANGE GASKET—P-4753.

SPECIAL TOOLS REQUIRED—Use Nash complete Tool Kit **SER-385;** T-24733 Float Adjuster Wrench; T-24967 Main Discharge Jet Remover; T-23844, Main Metering Jet Wrench; T-24970 By-Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burrette Gauge; T-24968 Handle; T-19099 Main Jet Plug Screw Driver.

MOTOR TUNE-UP DATA

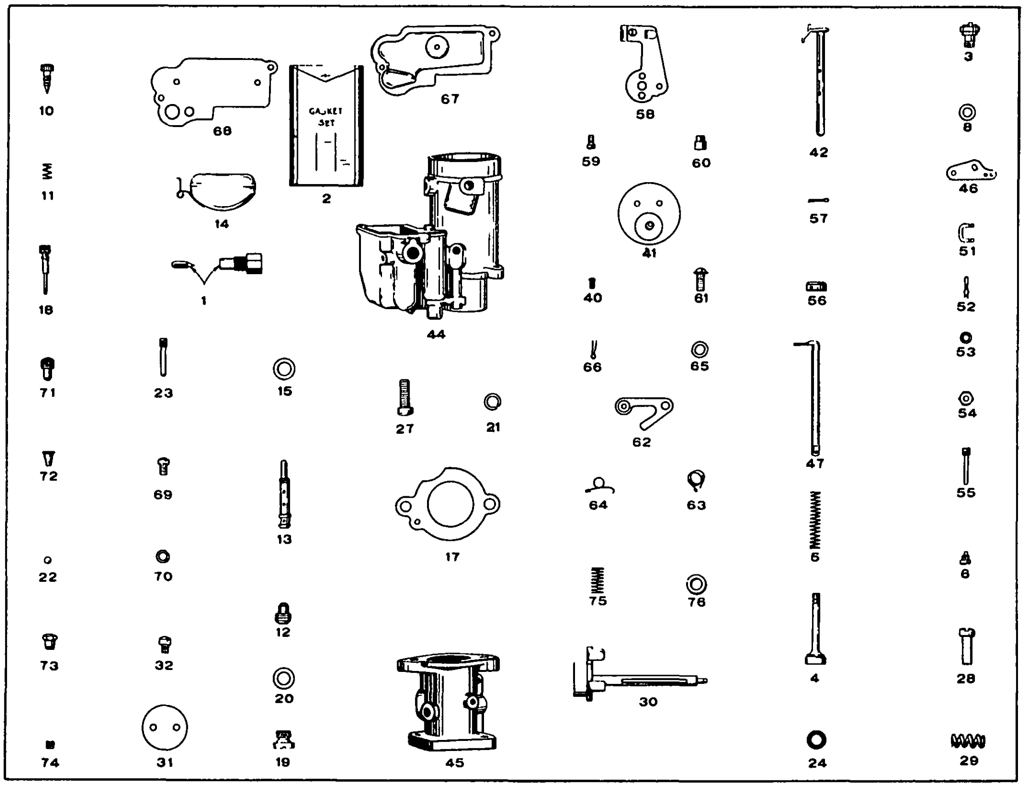
SPARK PLUG—.022".
Clean and adjust at regular intervals.

DISTRIBUTOR—.018" to .020".
Breaker gap set .018" to .020".
Replace if necessary.

VALVES—Intake: .015".
Exhaust: .015". Engine hot.

IGNITION TIMING—Synchronize contacts before timing to open both at the same time. Breaker contacts to open for No. 1 cylinder when "IGN" mark on front flywheel (vibration damper) is in line with pointer on timing case cover.

SERVICE RECOMMENDATION — Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No.	Part N .	Part Name
	1	P-18916	Float Needle Valve and Seat .086" (NOT VAR.)
	2	J-4364-G	Complete Gasket Set
	3	P-18149	Power By Pass Jet No 56 (NOT VAR.)
	4	P-19167	Pump Piston and Stem (Includes P-16960)
	5	P-18221	Spring—Pump Duration (Upper)
	6	P-18144	Check Valve -Pump Inlet
	8	P-6855	Gasket--By-Pass Jet
	10	P-17402	Idle Needle Valve
	11	P-15481	Spring -- Idle Needle Valve
	12	P-17004	Metering Jet .064" (VAR.)
	13	P-20885	Main Disch Jet No 32 (NOT VAR.)
	14	P-17486	Float With Lever
	15	P-10666	*Gasket- Float Needle Valve Seat*
	17	P 17557	Gasket—Main Body
	18	P-17007	Idle Tube No 70 (NOT VAR.)
	19	P-18130	Plug—Main Disch Jet
	20	P 60308	Gasket --Main Disch Jet Plug
	21	P-8838	Lockwasher --Main Body Attach Screw
	22	P 18772	Lead Ball
	23	P 18125	Screw--Fulcrum—Float Lever
	24	P 16960	Spring—Pump Piston Leather Expansion
	27	P 17000	Screw- Main Body Attach
	28	P 15456	Screw—Throttle Stop
	29	P 15831	Spring—Throttle Stop Screw
	30	P 20867	Throttle Lever and Stem
	31	P 5436	Throttle Valve (20°) (VAR)
	32	P-16716	Screw Throttle Valve Attach
	40	P-4522	Screw—Choke Valve Attach
	41	P-18277	Choke Valve
	42	P-18314	Choke Stem and Stop
	44	P 17893	Main Body **1-3/16"** Venturi **No. 70** High Speed Bleeder (VAR.)
	45	P-18373	Throttle Body—**No. 56-58** Idle Disch Holes (VAR.)

NOTE—For parts marked (VAR.) size must be specified when ordering.

Bin Location	Key No.	Part No.	Part Name
	46	P-18145	Pump Lever
	47	P 19165	Pump Rod
	51	P-18141	Pump Link
	52	P-18114	Cotter Pin—Pump Link
	53	P-1791	Lockwasher—Pump Lever Nut
	54	P-2290	Nut—Pump Lever
	55	P-18126	Nozzle Pump Disch **No. 67** (VAR.)
	56	P-18135	Nut --Pump Rod
	57	P-4	Cotter Pin—Pump Rod Nut
	58	P-17391	Assy —Choke Tube Holder
		P-17051	Tube Holder
		P-11561	Tube Holder Clamp
		P-12868	Tube Holder Clamp Screw
		P-8806	Tube Holder Clamp Screw Nut
	59	P-17093	Screw--Choke Tube Holder Attach
	60	P 17058	Bushing—Choke Lever
	61	P-17059	Screw— Choke Lever Fulcrum
	62	P-23085	Choke Lever with Wire Connector and Screw
		P-9270	Wire Connector Screw
	63	P-17132	Spring—Choke Lever Return
	64	P-17068	Spring—Choke Valve Return
	65	P-17449	Washer— Choke Stem
	66	P-6666	Cotter Pin—Choke Stem
	67	P-18124-F	Float Cover
	68	P-17778	Gasket—Float Cover
	69	P-2866	Screw—Float Cover Attach
	70	P-12167	Lockwasher---Float Cover Attach Screw
	71	P-15477	Idle Air Bleeder--**No. 50** (VAR)
	72	P-15459	Plug—Idle Disch Drilling Hole—¼"
	73	P-21053	Plug—Pump Disch Channel
	74	P-6387	Plug—Idle Disch Hole No 10-32
	75	P-18223	Spring—Pump Duration (Lower)
	76	P 4735	Washer- Duration Spring Separator

BENDIX PRODUCTS DIVISION

SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

STROMBERG "EE-1" CARBURETOR

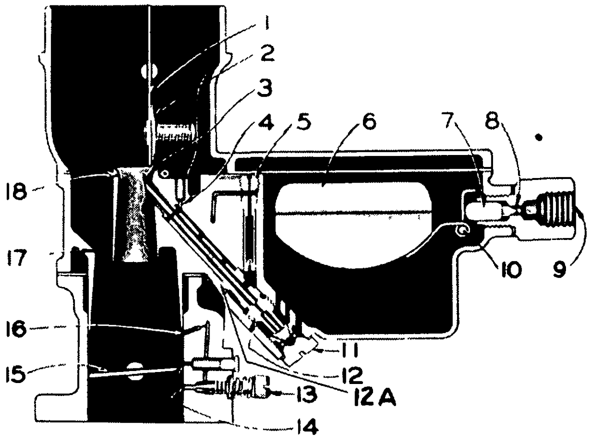
STROMBERG NO. A-18061 NASH SYMBOL 48201 & 48201-A

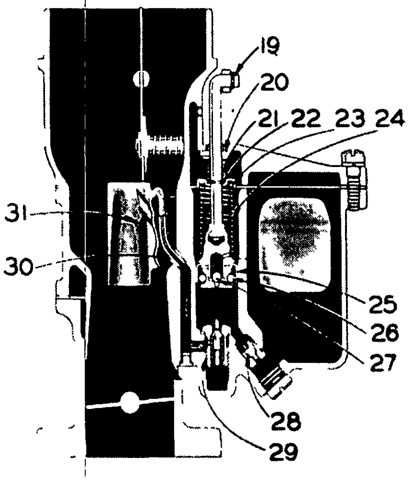
SIZE: 1" DUAL D.D. 3-HOLE FLANGE

1935-36
NASH
1935 MODEL
3580
1936 MODEL
3680
3⅛"x4¼"—8 cyl.

PARTS ILLUSTRATED

1. Choke Valve
2. Poppet Valve
3. Main Discharge Jet
4. High Speed Bleeder
5. Idle Tube
6. Float
7. Float Needle Valve
8. Float Needle Valve Seat
9. Gasoline Inlet
10. Float Fulcrum Pin
11. Main Discharge Jet Plug
12. Metering Jet
12A. Main Discharge Jet Gasket
13. Idle Needle Valve
14. Idle Discharge Holes
15. Throttle Valve
16. Idle Air Bleeder
17. Primary Venturi
18. Auxiliary Venturi
19. Pump Piston Link
20. Dust Washer (Felt)
21. Dust Washer Retaining Spring
22. Spring Retainer Lock
23. Spring Retainer Washer
24. Pump Duration Spring
25. Pump Piston
26. Pump Piston Expansion Spring
27. Pump Relief Valve
28. Pump Inlet Check Valve
29. Power By-Pass Jet
30. Pump Discharge Nozzle Holder
31. Pump Discharge Nozzle





Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **1/2"** below top surface of float chamber (without gasket) at 3 lbs. pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level).

MAIN METERING SYSTEM—Venturi **1-1/32";** Main Discharge Jet **No. 32-36** P-20853 **(Tool T-24967).** Use new P-20421 Lead Gasket assembled on lower shoulder of main discharge jet; High Speed Bleeder **No. 70** in body. Main Metering Jet **.048"** P-19442 **(Tool T-24924);** Use **Tool T-19099** Screw Driver for removing main jet plug. Main metering system controls the flow of fuel up to approximately 65 to 70 M. P. H.

POWER SYSTEM—Combination Power and Pump By-Pass Jet **No. 63** P-19447. The Power Jet is brought into action at approximately 65 to 70 M. P. H. Pump piston to rest on seat of by-pass jet (less over-travel) with throttle valve opened **7/32" + — 1/64"** drill (maximum pump setting) (measure with shank end of **7/32"** drill); bend pump lever fulcrum at ball joint end to obtain correct setting.

ACCELERATION — Pump Discharge Nozzles **No. 65** in main body; Pump capacity **13** to **17** c.c. per 10 fast strokes, and **21** to **25** c.c. per 10 slow strokes with pump rod link set in maximum setting. Use **Tool T-24972.** Pump action takes place during acceleration period only.

IDLE SYSTEM—Idle Discharge holes **Nos. 56-60.** With throttle valve fully closed and **No. 60** drill in idle hole, edge of valve is located **.030" + — .004"** from **No. 60** drill; Idle Air Bleed **No. 70** in idle tube, **No. 54** (in throttle body) P-20470; Idle Tube **No. 55** P-20419. **Adjustment:** Adjust to smooth running, one barrel at a time, OUT to make richer and IN to make leaner; throttle at 7 to 8 M. P. H.

FLANGE GASKET—P-20466.

SPECIAL TOOLS REQUIRED—Use Nash complete Tool Kit **SER-385;** T-24733 Float Adjuster Wrench; T-24967 Main Discharge Jet Remover; T-24924 Main Metering Jet Wrench; T-24970 By-Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burrette Gauge; T-24968 Handle; T-19099 Main Jet Plug Screw Driver.

MOTOR TUNE-UP DATA

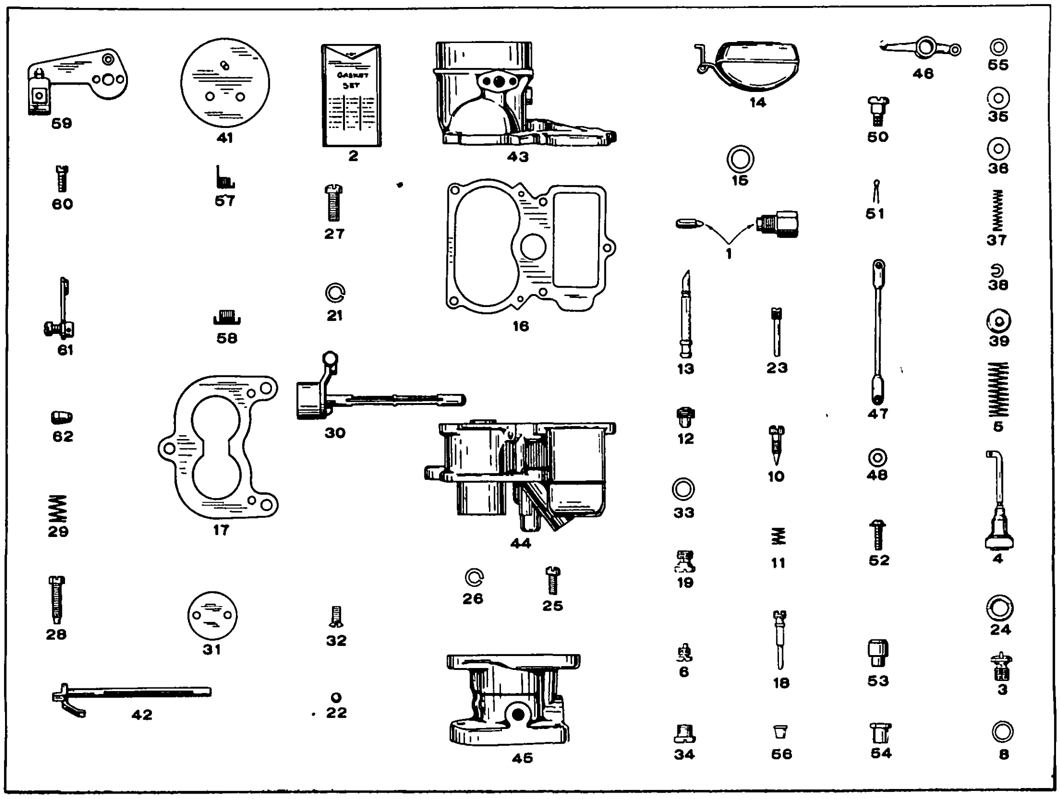
SPARK PLUG—.022" (3580).
.025" (3680).
Clean and adjust at regular intervals.

DISTRIBUTOR—.017".
Breaker gap set .017".
Replace if necessary.

SERVICE RECOMMENDATION — Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

IGNITION TIMING—Synchronize contacts before timing to open both at same time. Breaker contacts to open for No. 1 cylinder when "IGN" mark on front flywheel (vibration damper) is in line with pointer on timing case cover.

VALVES—Intake: .008".
Exhaust: .015". **(3680)**
Intake: .015".
Exhaust: .015". **(3580)**
Engine hot.



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No.	Part No.	Part Name
	1	**P-19867**	Float Needle Valve and Seat—.113"....**(NOT VAR.)**
	2	**J-4383-G**	Complete Gasket Set
	3	**P-19447**	Power By-Pass Jet No. 63 **(NOT VAR.)**
	4	**P-20986**	Pump Piston and Link ***(Includes P-16960)***
	4-A	**P-20970**	Pump Piston, Link and Spring (Complete)
	5	**P-19458**	Spring—Pump Duration
	6	**P-18144**	Pump Inlet Check Valve
	8	**P-19448**	Gasket—By-Pass Jet
	10	**P-17402**	Idle Needle Valve
	11	**P-15481**	Spring—Idle Needle Valve
	12	**P-19442**	Metering Jet **.048"** **(VAR.)**
	13	**P-20853**	Main Discharge Jet No. 32-36 **(NOT VAR.)**
	14	**P-19825**	Float and Lever
	15	**P-10666**	Gasket—Float Needle Valve Seat
	16	**P-19428**	Gasket—Air Horn
	17	**P-19432**	Gasket—Main Body
	18	**P-20419**	Idle Tube
	19	**P-20447**	Plug—Main Discharge Jet
	21	**P-3157**	Lockwasher—Main Body Attaching Screw
	22	**P-18772**	Lead Ball
	23	**P-18125**	Screw—Float Lever Fulcrum
	24	**P-16960**	Spring—Pump Piston Leather Expansion
	25	**P-3199**	Screw—Air Horn Attaching
	26	**P-1791**	Lockwasher—Air Horn Attach. Screw
	27	**P-13041**	Screw—Main Body Attaching
	28	**P-19103**	Screw—Throttle Stop
	29	**P-15831**	Spring—Throttle Stop Screw
	30	**P-21061**	Throttle Stem and Stop
	31	**P-20720**	Throttle Valve (5°) **(NOT VAR.)**
	32	**P-4522**	Screw—Throttle Valve & Choke Valve Attach.
	33	**P-7338**	Gasket—Check Valve and Main Disch. Jet Plug..
	34	**P-19716**	Plug—Check Valve
	35	**P-17380**	Felt Washer—Pump Link
	36	**P-17060**	Washer—Pump Link—Splash

NOTE—For parts marked (VAR.) size must be specified when ordering.

Bin Location	Key No.	Part No.	Part Name
	37	**P-19488**	Spring—Packing Retainer
	38	**P-19459**	Washer—Horseshoe
	39	**P-19460**	Washer—Spring Retainer
	41	**P-19746**	Choke Valve
	42	**P-20995**	Choke Stem and Lever
	43	**P-20993-A**	Air Horn
	43-A	**P-20999**	Assy.—Air Horn & Valve
	44	**P-21001**	Assy.—Main Body **1-1/32** Venturi **No. 70** H. S. Bleeder—Pump Discharge Tube **(VAR.)**
		P-20435	Pump Discharge Tube (Right)
		P-20436	Pump Dicharge Tube (Left)
		P-19430	Pump Discharge Tube Wedge
	45	**P-20802**	Assy.—Throttle Body **No. 56-60** Idle Disch. Holes **No. 54** Idle Air Bleeder **(VAR.)**
	46	**P-19533**	Pump Lever
	47	**P-20984**	Pump Rod
	48	**P-10495**	Washer—Pump Rod
	50	**P-20611**	Screw—Pump Lever Fulcrum
	51	**112-S-22**	Cotter Pin—Pump Link and Rod
	52	**P-17059**	Screw—Fulcrum—Choke Lever
	53	**P-17058**	Bushing—Choke Lever Fulcrum Screw
	54	**P-20454**	Drive Plug—17/64"
	55	**P-20421**	Gasket—Main Discharge Jet (Lead)
	56	**P-15458**	Drive Plug—No. 10
	57	**P-17068**	Spring—Choke Valve Return
	58	**P-17132**	Spring—Choke Lever Return
	59	**P-17391**	Assy.—Tube Holder
		P-17051	Tube Holder
		P-11561	Tube Holder Clamp
		P-12868	Tube Holder Clamp Screw
		P-8806	Tube Holder Clamp Screw Nut
	60	**P-17093**	Screw—Choke Tube Holder Attach.
	61	**P-23085**	Choke Lever with Wire Connector and Screw
		P-9270	Wire Connector Screw
	62	**P-20470**	Idle Air Reducer No. 54 (Thro. Body) **(NOT VAR.)**

BENDIX PRODUCTS DIVISION

SOUTH BEND **OF BENDIX AVIATION CORPORATION** **INDIANA**

Printed in U. S. A.

STROMBERG "EE-22" CARBURETOR

STROMBERG NO. A-18062 NASH SYMBOL 47150-A

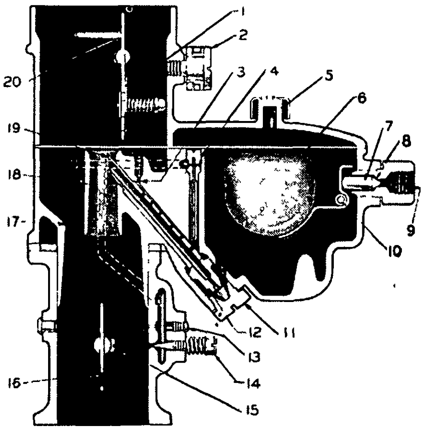
SIZE: 1¼" DUAL D. D. 4-HOLE FLANGE

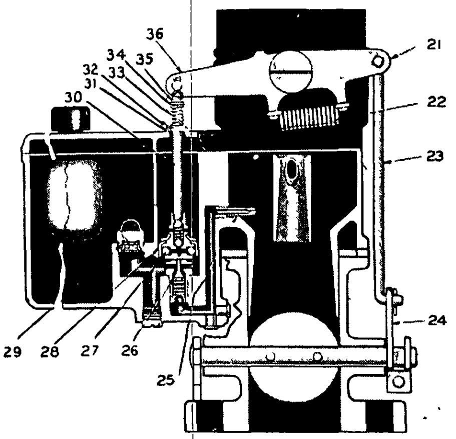
1935 NASH

MODEL
3580
3⅛"x4¼"—8 cyl.

PARTS ILLUSTRATED

1. Poppet Valve
2. Fulcrum Screw
3. High Speed Bleed
4. Idle Tube
5. Float Chamber Vent
6. Float
7. Float Needle Valve
8. Float Needle Valve Seat
9. Gasoline Inlet
10. Float Fulcrum Pin
11. Main Discharge Jet Plug
12. Main Metering Jet
13. Idle Discharge Plug
14. Idle Needle Valve
15. Idle Discharge Holes
16. Throttle Valve
17. Primary Venturi
18. Auxiliary Venturi
19. Main Discharge Jet
20. Choke Valve
21. Pump Lever Arm
22. Pump Arm Connecting Spring
23. Pump Rod
24. Pump Lever
25. Pump Discharge Nozzle
26. Power By-Pass Jet
27. Pump Piston Spring
28. Pump Piston
29. Check Valve
30. Pump Piston Link
31. Felt Washer
32. Splash Washer
33. Spring
34. Retainer Washer
35. Cotter Pin
36. Pump Piston Arm





Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **5/8"** below top surface of float chamber (without gasket) at 3 lbs. pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level).

MAIN METERING SYSTEM—Venturi **1-1/32"**; Main Discharge Jet **No. 36** P-17969 **(Tool T-24967)**; High Speed Bleeder **No. 70** in body; Main Metering Jet **.050"** P-17004 **(Tool T-23844)**; Use **Tool T-19099** Screw Driver for removing main jet plug. Main metering system controls the flow of fuel up to approximately 65 to 70 M. P. H.

POWER SYSTEM—Combination Power and Pump By-Pass Jet **4 No. 56** P-18149. The Power Jet is brought into action at approximately 65 to 70 M. P. H. Pump piston to rest on seat of by-pass jet (less over-travel) with throttle valve opened **1/4" + — 1/64"** drill (maximum pump setting); (measure with shank end of **1/4"** drill) bend pump rod to obtain correct setting.

ACCELERATION—Pump Discharge Nozzles **No. 71** P-18852; Pump capacity **17** to **21** c.c. per 10 fast strokes, and **20** to **24** c.c. per 10 slow strokes with pump rod link set in maximum setting. Use **Tool T-24972.** Pump action takes place during acceleration period only.

IDLE SYSTEM—Idle Discharge holes **No. 60.** With throttle valve fully closed and **No. 60** drill in idle hole, edge of valve is located **.030" + — .004"** from **No. 60** drill; Idle Air Bleed **No. 42** P-15477; Idle Tube **No. 70** P-17007. **Adjustment:** Adjust to smooth running, one barrel at a time, OUT to make richer and IN to make leaner; throttle at 7 to 8 M. P. H.

FLANGE GASKET—P-18165.

SPECIAL TOOLS REQUIRED—Use Nash complete Tool Kit **SER-385;** T-24733 Float Adjuster Wrench; T-24967 Main Discharge Jet Remover; T-23844 Main Metering Jet Wrench; T-24970 By-Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burrette Gauge; T-24968 Handle; T-19099 Main Jet Plug Screw Driver.

MOTOR TUNE-UP DATA

SPARK PLUG—.022".
Clean and adjust at regular intervals.

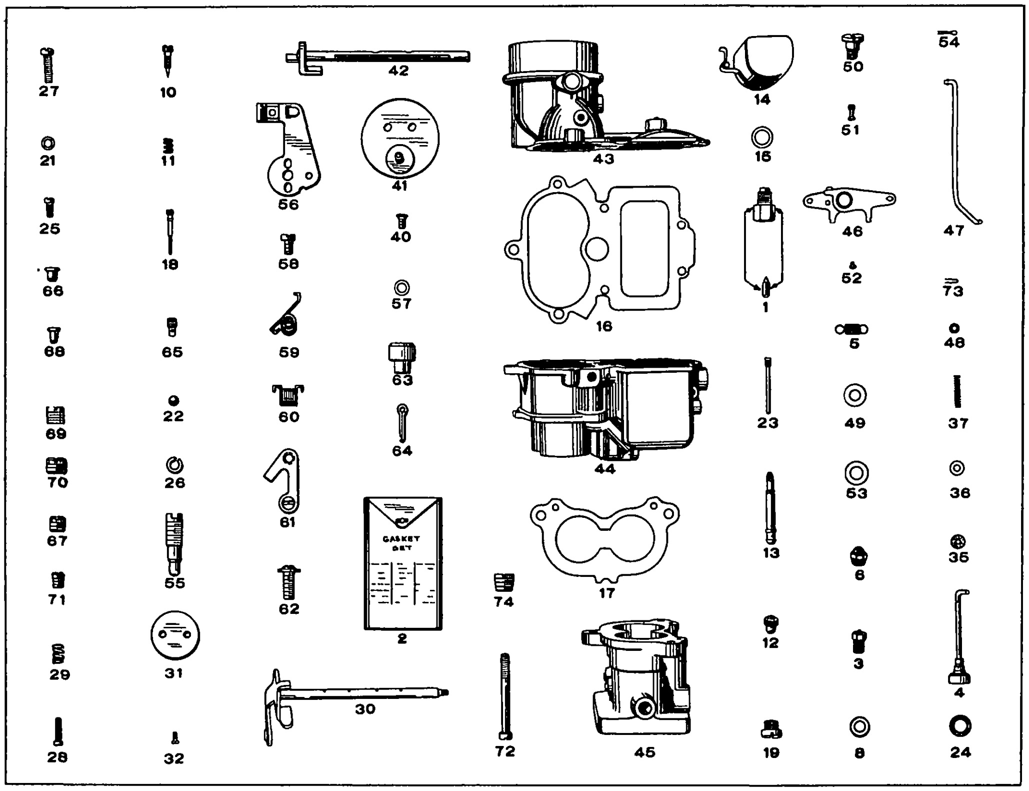
DISTRIBUTOR—.015" to .017".
Breaker gap set .015" to .017".
Replace if necessary.

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

IGNITION TIMING—Synchronize contacts before timing to open both at same time. Breaker contacts to open for No. 1 cylinder when "IGN" mark on front flywheel (vibration damper) is in line with pointer on timing case cover.

VALVES—Intake: .015".
Exhaust: .015". Engine hot.

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No.	Part No.	Part Name	
	1	P-18914	Needle Valve & Seat 130	(NOT VAR.)
	2	J-4363-G	Complete Gasket Set	
	3	P-18149	Power By-Pass Jet—No 56	(NOT VAR.)
	4	P-17073	Pump Piston & Link	(Includes P-16960)
	5	P-17042	Spring—Pump Duration	
	6	P-16990	Check Valve—Pump Inlet	
	8	P-6855	Gasket—By-Pass Jet	
	10	P-17402	Idle Needle Valve	
	11	P-18710	Spring—Idle Needle Valve	
	12	P-17004	Metering Jet .050"	(VAR.)
	13	P-17969	Main Disch Jet No 36	(NOT VAR)
	14	P-17926	Float with Lever	
	15	P-10666	Gasket—Float Needle Valve Seat	
	16	P-17923	Gasket—Air Horn	
	17	P-16941	Gasket- Main Body	
	18	P-17007	Idle Tube No 70	(NOT VAR.)
	19	P-18130	Plug—Main Discharge Jet	
	21	P-3157	Lockwasher—Main Body Attach Screw	
	22	P-18772	Lead Ball	
	23	P-17939	Screw—Fulcrum—Float Lever	
	24	P-16960	Spring—Pump Piston Leather Expansion	
	25	P-46	Screw—-Air Horn Attach	
	26	P-6668	Lockwasher—Air Horn Attach Screw	
	27	P-15554	Screw—Main Body Attach	
	28	P-15456	Screw—Throttle Stop	
	29	P-15831	Spring—Throttle Stop Screw	
	30	P-20779	Throttle Lever and Stem	
	31	P-17018	Throttle Valve (5°)	(NOT VAR)
	32	P-16716	Screw—Throttle Valve Attach	
	35	P-17380	Washer—Felt—Pump Link	
	36	P-17060	Washer—Splash—Pump Link	
	37	P-17753	Spring—Felt Retainer	
	40	P-4522	Screw—Choke Valve Attach	
	41	P-17070	Choke Valve	
	42	P-17224	Choke Lever & Stem	
	43	P-20275	Assy —Air Horn	
		P-17828	Vent Cap	
		P-18315	Filtering Screen	
		P-9802	Vent Cap Attach Rivet	
	43 A	P-19182	Assy —Air Horn & Valve	
	44	P-18882	Main Body 1-1/32' Venturi No. 70 High Speed Bleeder	(VAR)
	45	P-17002	Throttle Body No. 60 Idle Disch Holes	(VAR.)
	46	P 16976	Pump Lever	
	47	P-17045	Pump Rod	
	48	P-9394	Washer -Pump Rod & Lever	
	49	P-17133	Washer-- Pump Lever Fulcrum Screw Spring	
	50	P-16973	Screw —Pump Lever Fulcrum	
	51	P-17027	Screw Pump Lever Fulcrum Screw Lock	
	52	P 6970	Screw Pump Lever Stop	
	53	P-17009	Washer- Pump Lever Fulcrum Screw	
	54	P-7170	Cotter Pin- Pump Rod	
	55	P 18852	Nozzle —Pump Discharge No. 71	(VAR.)
	56	P-17391	Assy —Choke Tube Holder	
		P-17051	Holder	
		P-11561	Clamp	
		P-12868	Clamp Screw	
		P-8806	Clamp Screw Nut	
	57	P-16426-F	Washer -Choke Stem	
	58	P-17093	Screw—Choke Tube Holder Attach	
	59	P-17068	Spring—Choke Valve Return	
	60	P-17132	Spring—Choke Lever Return	
	61	P-23085	Choke Lever with Wire Conn & Screw	
		P-9270	Wire Conn Screw	
	62	P-17059	Screw—Choke Lever Fulcrum	
	63	P-17058	Bushing—Choke Lever	
	64	P-4	Cotter Pin—Choke Stem	
	65	P-15477	Idle Air Bleeder No. 42	(VAR.)
	66	P-15459	Plug—Idle Discharge Drilling Hole ¼'	
	67	P-6387	Plug—-Idle Disch Holes No 10-32	
	68	P-15457	Plug—Idle Air Channel No 6	
	69	P-6406	Plug—Pump Discharge Channel No 5/16-24	
	70	P-6202	Plug—Pump Discharge Channel No ¼-32	
	71	P-7098	Plug—Pump Channel No 8 32	
	72	P-18111	Screw—-Air Horn Attach	
	73	P-19374	Cotter Pin—-Pump Link	
	74	P 3292	Plug—1/8 Pipe—-Decarbonizing Boss	

NOTE—For parts marked (VAR.) size must be specified when ordering.

BENDIX PRODUCTS DIVISION
SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

STROMBERG "EE-1" CARBURETOR

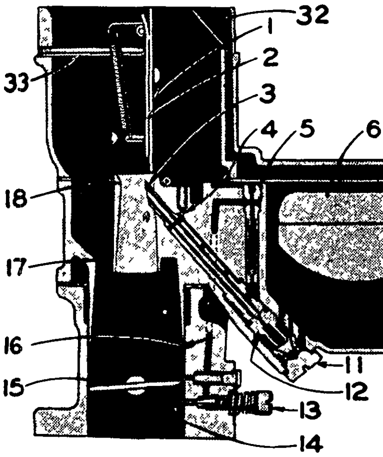
STROMBERG NO. A-18021 (CODE NO. 5-5A) OLDS SYMBOL 406480

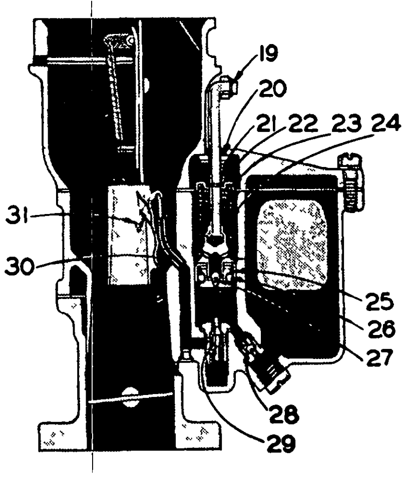
SIZE: 1" D. D. 3-HOLE FLANGE

1935
Oldsmobil
MODEL
L-35
3"x4¼"—8 cyl.

PARTS ILLUSTRATED

1 Choke Valve
2. Auxiliary Choke Valve
3 Main Discharge Jet
4 High Speed Bleeder
5 Idle Tube
6 Float
7 Float Needle Valve
8 Float Needle Valve Seat
9 Gasoline Inlet
10 Float Fulcrum Pin
11 Main Discharge Jet Plug
12 Main Metering Jet
13 Idle Needle Valve
14 Idle Discharge Holes
15 Throttle Valve
16 Idle Air Bleeder
17 Primary Venturi
18 Auxiliary Venturi
19 Pump Piston Link
20 Dust Washer
21 Dust Washer Spring
22 Spring Retainer Lock
23 Spring Retainer Washer
24 Pump Duration Spring
25 Pump Piston
26 Pump Piston Expansion Spring
27 Pump Relief Valve
28 Pump Inlet Check Valve
29 Power By-Pass Jet
30. Pump Discharge Nozzle Holder
31. Pump Discharge Nozzle
32 Float Chamber Vent
33 Choke Valve Stop Pin





Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **15/32"** below top surface of float chamber (without gasket) at 3 lbs. pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level).

MAIN METERING SYSTEM—Venturi **1-1/32"**; Main Discharge Jet **No. 32-36** P-20753 **(Tool T-24967).** Use new P-20421 Lead Gasket assembled on lower shoulder of main discharge jet; High Speed Bleeder **No. 70** in body. Main Metering Jet **.049"** P-19442 **(Tool T-24924;** use **Tool T-5164** Screw Driver for removing main jet plug. Main metering system controls the flow of fuel up to approximately 65 to 70 M. P. H.

POWER SYSTEM—Combination Power and Pump By-Pass Jet **No. 63** P-19447. The Power Jet is brought into action at approximately 65 to 70 M. P. H. Pump piston to rest on seat of by-pass jet (less over-travel) with throttle valve opened **21/64" + — 1/64"** drill (measure with shank end of **21/64"** drill); bend pump lever fulcrum arm at ball joint end to obtain correct setting.

ACCELERATION—Pump Discharge Nozzles **No. 65** in main body; Pump capacity **12** to **14** c.c. per 10 fast strokes, and **17** to **19 c.c.** per 10 slow strokes. Use **Tool T-24972.** Pump action takes place during acceleration period only.

IDLE SYSTEM—Idle Discharge holes **Nos. 54-60.** With throttle valve fully closed and **No. 60** drill in idle hole, edge of valve is located **.010" + — .004"** from **No. 60** drill; Idle Air Bleed **No. 68** in idle tube; **No. 50** in throttle body P-20750; Idle Tube **No. 55** P-20772. **Adjustment:** Adjust to smooth running, one barrel at a time, OUT to make richer and IN to make leaner; throttle at 7 to 8 M. P. H.

FAST IDLE ADJUSTMENT—With Throttle Stop Screw in contact with shoulder of slow idle, fast idle cam, the choke valve should be opened **11/16"** drill. (Measure with shank end of new drill). Adjust by screwing fast idle rod "IN or "OUT" of ball joint to obtain correct choke valve opening.

FLANGE GASKET—P-20466.

SPECIAL TOOLS REQUIRED—T-24733 Float Adjuster Wrench; T-24967 Main Discharge Jet Remover; T-24924 Main Metering Jet Wrench; T-24970 By-Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burrette Gauge; T-24968 Handle; T-5164 Main Jet Plug Screw Driver.

MOTOR TUNE-UP DATA

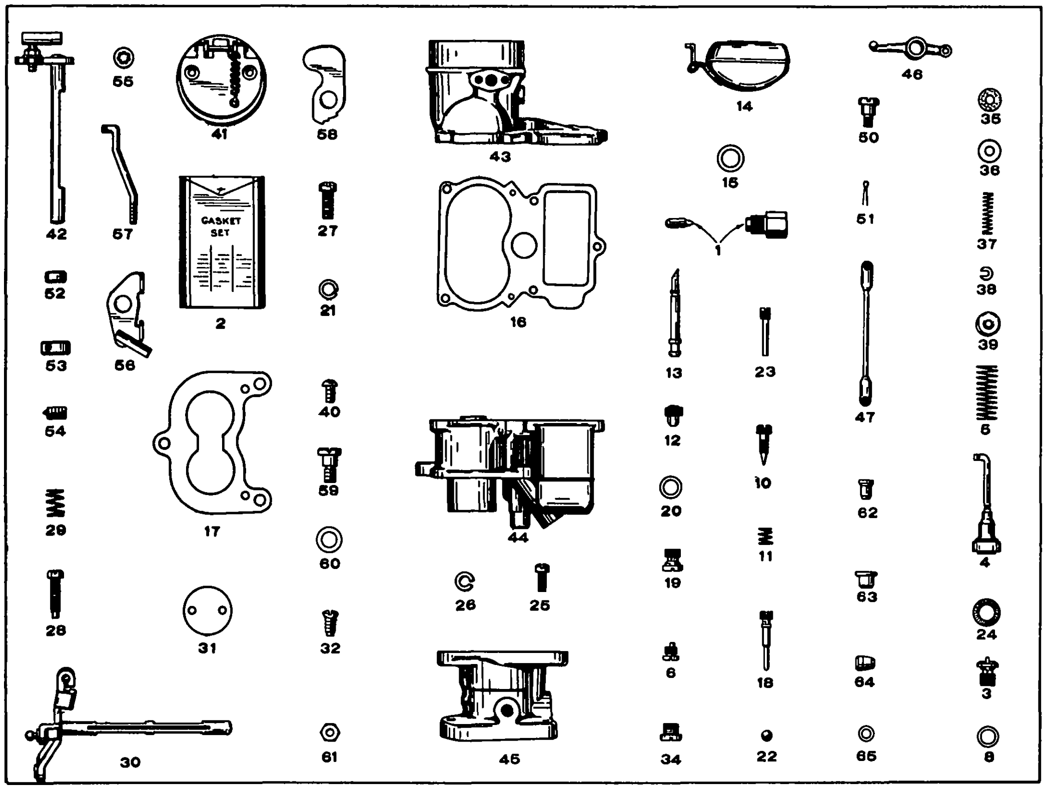
SPARK PLUG—.025".
Clean and adjust at regular intervals.

DISTRIBUTOR—.018" to .024".
Breaker gap set .018" to .024".
Replace if necessary.

VALVES—Intake: .008".
Exhaust: .010". **Engine hot.**

IGNITION TIMING—Contacts (movable set) to open for No. 1 cylinder when "IGN-1" mark on flywheel is in line with pointer screw in flywheel housing. "IGN-6" mark on flywheel may be used in connection with No. 6 cylinder and stationary contacts for timing.

SERVICE RECOMMENDATION — Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No.	Part No.	Part Name
	1	**P-19867**	Float Needle Valve and Seat— 113 **(NOT VAR.)**
	2	**J-4539-G**	Complete Gasket Set
	3	**P-19447**	Power—By Pass Jet No 63 **(NOT VAR.)**
	4	**P-20775**	Pump Piston and Link **(Includes P-16960)**
	4-A	**P-20754**	Pump Piston Link and Spring (Complete)
	5	**P-19526**	Spring—Pump Duration
	6	**P-18144**	Pump Inlet Check Valve
	8	**P-19448**	Gasket—By-Pass Jet
	10	**P-17402**	Idle Needle Valve
	11	**P-15481**	Spring—Idle Needle Valve
	12	**P-19442**	Metering Jet—**.049"** **(VAR)**
	13	**P-20753**	Main Discharge Jet—No 32 36 **(NOT VAR.)**
	14	**P-19825**	Float with Lever
	15	**P-10666**	Gasket—Float Needle Valve Seat
	16	**P-19428**	Gasket —Air Horn
	17	**P-19432**	Gasket—Main Body
	18	**P-20772**	Idle Tube
	19	**P 20447**	Plug—Main Discharge Jet
	20	**P-7338**	Gasket—Main Disch Jet Plug
	21	**P-3157**	Lockwasher—Main Body Attach Screw
	22	**P-18772**	Lead Ball
	23	**P-18125**	Screw—Fulcrum—Float Lever
	24	**P 16960**	Spring—Pump Piston Leather Expansion
	25	**P-3199**	Screw—Air Horn Attach
	26	**P 1791**	Lockwasher—Air Horn Attach Screw
	27	**P-709**	Screw—Main Body Attach
	28	**P-19103**	Screw—Throttle Stop
	29	**P-15831**	Spring—Throttle Stop Screw
	30	**P-20719**	Throttle Lever and Stem
		P 19509	Ball Joint Connector
	31	**P-20720**	Throttle Valve (5°) **(NOT VAR.)**
	32	**P-4522**	Screw—Throttle Valve Attach
	34	**P-19716**	Plug—Check Valve
	35	**P-17380**	Washer—Felt
	36	**P-17060**	Washer—Splash—Pump Link
	37	**P 19488**	Spring—Packing Retainer
	38	**P-22045**	Washer—Horseshoe
	39	**P-22046**	Washer—Spring Retainer

NOTE—For parts marked (VAR.) size must be specified when ordering.

Bin Location	Key No.	Part No.	Part Name
	40	**P-20738**	Screw—Choke Valve
	41	**P-20684**	Choke Valve
		P-20690	Spring
		P-20689	Hinge Pin
		P-20688	Choke Valve
		P-20685	Aux Choke Valve
	42	**P-20704**	Assy —Choke Lever Stem
		P-20737	Ball Joint
		P-6668	Lockwasher
	43	**P-20910**	Assy —Air Horn
		P-20608	Vent
	43-A	**P-20708**	Assy —Air Horn and Valve
	44	**P-20751**	Assy —Main Body **1-1/32"** Venturi **No. 70** H S Bleeder, Pump Disch Tube **(VAR.)**
		P-20435	Pump Disch Tube (Right) No 65 **(NOT VAR.)**
		P-20436	Pump Disch Tube (Left) No 65 **(NOT VAR.)**
		P 19430	Pump Tube Wedge
		P 20709	Fast Idle Cam Stop Pin
	45	**P 20987**	Throttle Body **No. 54-60** Idle Disch Holes **No. 50** Idle Air Bleed **(VAR.)**
	46	**P-19427**	Pump Lever
	47	**P-19420**	Pump Rod
	50	**P-19433**	Screw—Pump Lever Fulcrum
	51	**P 7170**	Cotter Pin—Pump Lever and Link
	52	**P 20837**	Spacer—Choke Lever
	53	**P 17081**	Collar—Choke Stem
	54	**P-16161**	Screw—Choke Stem Collar Set
	55	**P-20883**	Lockwasher—Choke Valve Attach Screw
	56	**P-20715**	Lever —Fast Idle
		P-19575	Ball Joint
	57	**P 20749**	Rod—Fast Idle
	58	**P 20713**	Cam—Fast Idle
	59	**P 20745**	Screw—Fast Idle Lever Fulcrum
	60	**P-20744**	Washer—Fast Idle Lever Fulcrum Screw
	61	**P-19587**	Nut—Fast Idle Rod
	62	**P-15458**	Plug—Idle Disch Holes No 10
	63	**P 20454**	Plug—Idle Disch Drilling Hole 17/64"
	64	**P-20750**	Bleeder—Idle Air No 50 (Thro Body) **(NOT VAR.)**
	65	**P-20421**	Gasket—Main Disch Jet (Lead)

BENDIX PRODUCTS DIVISION

SOUTH BEND **OF BENDIX AVIATION CORPORATION** **INDIANA**

STROMBERG "EX-22" CARBURETOR

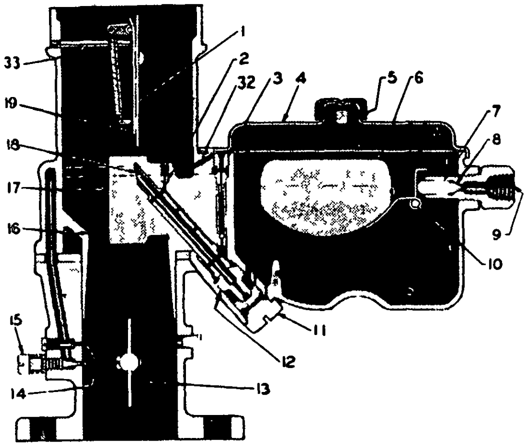
STROMBERG NO. A-18022 (CODE NO. 5-6A) OLDS SYMBOL 406400

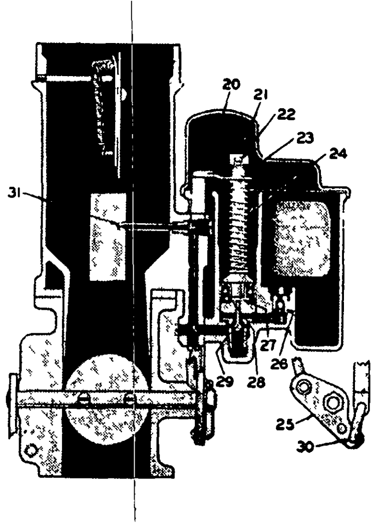
SIZE: 1¼" D. D. S.A.E. 2-11/16" FLANGE CENTER **REPLACE WITH BXOV-2 EQPT. J-5455**

1935
Oldsmobile
MODEL
F-35
3-5/16"x4-1/4"—6 cyl.

PARTS ILLUSTRATED

1. Choke Valve
2. High Speed Bleed
3. Idle Tube
4. Float Chamber Cover
5. Float Chamber Vent
6. Float
7. Float Needle Valve
8. Float Needle Valve Seat
9. Gasoline Inlet
10. Float Fulcrum Pin
11. Main Discharge Jet Plug
12. Main Metering Jet
13. Throttle Valve
14. Idle Discharge Holes
15. Idle Needle Valve
16. Primary Venturi
17. Auxiliary Venturi
18. Main Discharge Jet
19. Auxiliary Choke Valve
20. Pump Rod
21. Power Adjustment Nut
22. Cotter Pin
23. Piston Connecting Rod
24. Connecting Rod Spring
25. Pump Lever
26. Check Valve
27. Pump Piston
28. Pump Piston Spring
29. Power By-Pass Jet
30. Pump Lever Link
31. Pump Discharge Nozzle
32. Idle Air Bleeder Channel
33. Choke Valve Stop Pin





Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **5/8"** below top surface of float chamber (without gasket) at 3 lbs. pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level).

MAIN METERING SYSTEM—Venturi **1-5/32"**; Main Discharge Jet **No. 28-32** P-20748 **(Tool T-24967).** Use new P-20630 Lead Gasket assembled on lower shoulder of main discharge jet; High Speed Bleeder **No. 70** in body. Main Metering Jet **.058"** P-17004 **(Tool T-23844).** Use **Tool T-5164** Screw Driver for removing main jet plug. Main metering system controls the flow of fuel up to approximately 65 to 70 M. P. H

POWER SYSTEM—Combination Power and Pump By-Pass Jet **4 No. 56** P-18149 The Power Jet is brought into action at approximately 65 to 70 M. P. H. Pump piston to rest on seat of by-pass jet (less over-travel) with throttle valve opened **7/16" + — 1/64"** drill (maximum pump setting) (measure with shank end of **7/16"** drill); adjust pump stem nut to obtain correct setting.

ACCELERATION — Pump Discharge Nozzle **No. 66** P-18126; Pump capacity **6** to **8** c.c. per 10 fast strokes, and **13** to **15** c.c. per 10 slow strokes with pump rod link set in minimum setting. Use **Tool T-24972.** Pump action takes place during acceleration period only. Pump is set at minimum stroke.

IDLE SYSTEM—Idle Discharge holes **Nos. 56-58.** With throttle valve fully closed and **No. 58** drill in idle hole, edge of valve is located **.018" + — .004"** from **No. 58** drill; Idle Air Bleed **No. 56** in idle tube **No. 50** in main body; Idle Tube **No. 68** P-20627. **Adjustment:** Adjust to smooth running, OUT to make richer and IN to make leaner; throttle at 7 to 8 M P H

FAST IDLE ADJUSTMENT—With Throttle Stop Screw in contact with shoulder of slow idle of fast idle cam, the choke valve should be opened **11/16"** drill. Adjust by screwing fast idle rod "IN or "OUT" of ball joint to obtain correct opening of choke valve.

FLANGE GASKET—P-4752

SPECIAL TOOLS REQUIRED—T-24733 Float Adjuster Wrench; T-24967 Main Discharge Jet Remover; T-23844 Main Metering Jet Wrench; T-24970 By-Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burrette Gauge; T-24968 Handle, T-5164 Main Jet Plug Screw Driver

MOTOR TUNE-UP DATA

SPARK PLUG—.025".
Clean and adjust at regular intervals.

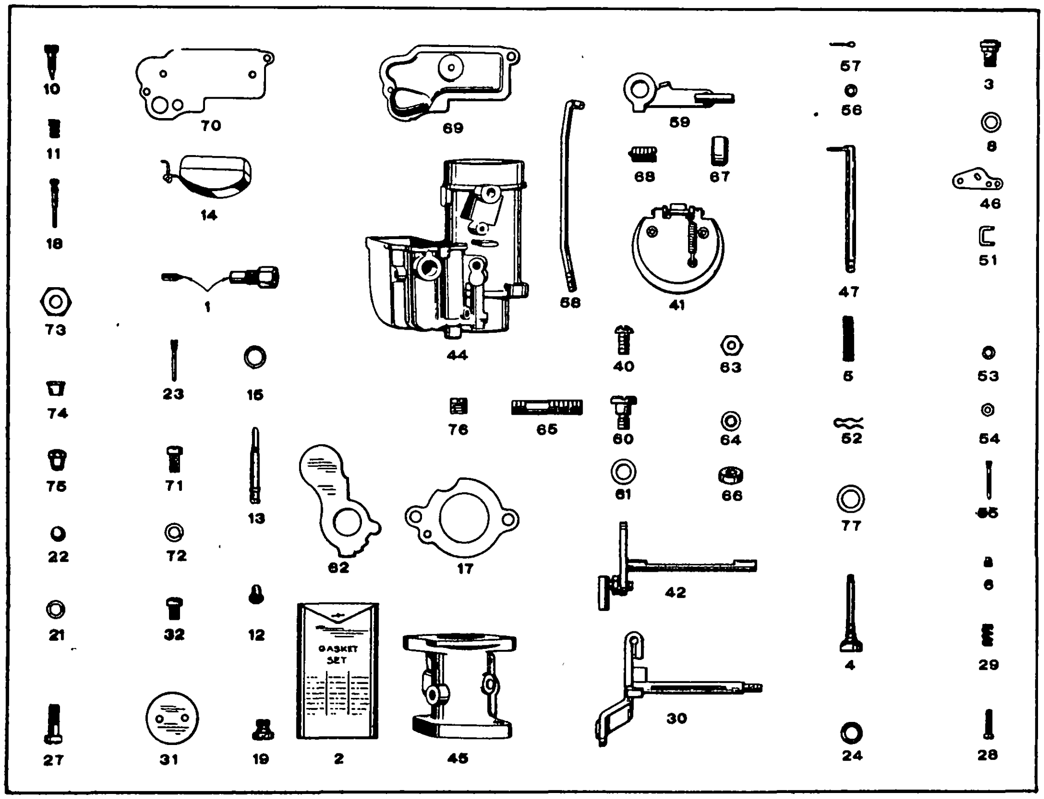
DISTRIBUTOR:—.018" to .024".
Breaker gap set .018" to .024".
Replace if necessary.

VALVES—Intake: .008".
Exhaust: .010". **Engine hot.**

IGNITION TIMING—Breaker contacts to open for No. 1 cylinder when "IGN" mark on flywheel is in line with pointer screw in flywheel housing.

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key N.	Part N.	Part Name
	1	P-18916	Float Needle Valve and Seat—.086". **(NOT VAR.)**
	2	J-4533-G	Complete Gasket Set
	3	P-18149	Power By-Pass Jet No. 56 **(NOT VAR.)**
	4	P-20747	Pump Piston & Stem **(Includes P-16960)**
	5	P-18215	Spring—Pump Duration
	6	P-18144	Pump Inlet Check Valve
	8	P-6855	Gasket—By-Pass Jet
	10	P-17402	Idle Needle Valve
	11	P-15481	Spring—Idle Needle Valve
	12	P-17004	Metering Jet **.058"** **(VAR.)**
	13	P-20748	Main Discharge Jet No. 28-32 **(NOT VAR.)**
	14	P-17486	Float with Lever
	15	P-10666	Gasket—Float N. V. Seat & M. Disch. Jet Plug
	17	P-16943	Gasket—Main Body
	18	P-20627	Idle Tube—No. 68 Idle Feed Hole—No. 56 Air Bleeder **(NOT VAR.)**
	19	P-18130	Plug—Main Discharge Jet
	21	P-8838	Lockwasher—Main Body Attach. Screw
	22	P-18772	Lead Ball
	23	P-18125	Screw—Fulcrum—Float Lever
	24	P-16960	Spring—Pump Piston Leather Expansion
	27	P-17000	Screw—Main Body Attach.
	28	P-19103	Screw—Throttle Stop
	29	P-15931	Spring—Throttle Stop Screw
	30	P-21084	Throttle Lever & Stem
	31	P-6454	Throttle Valve—**(18-½°)** **(VAR.)**
	32	P-16717	Screw—Throttle Valve Attach.
	40	P-20738	Screw—Choke Valve Attach.
	41	P-20724	Choke Valve
		P-20725	Choke Valve
		P-20729	Aux. Choke Valve
		P-20733	Spring
		P-20732	Hinge Pin

NOTE—For parts marked (VAR.) size must be specified when ordering.

Bin Location	Key No.	Part No.	Part Name
	42	P-20734	Choke Stem & Lever
	44	P-20722	Main Body **1-5/32"** Venturi **No. 70** High Speed Bleeder **(VAR.)**
	45	P-20740	Throttle Body—**No. 56-58** Idle Dis. Holes **(VAR.)**
	46	P-18358	Pump Lever
	47	P-19165	Pump Rod
	51	P-18141	Pump Link
	52	P-18114	Cotter Pin—Pump Link
	53	P-1791	Lockwasher—Pump Lever Attach. Nut
	54	P-2290	Nut—Pump Lever Attach.
	55	P-18126	Nozzle—Pump Discharge **No. 66** **(VAR.)**
	56	P-18135	Nut—Pump Rod & Stem
	57	P-4	Cotter Pin—Pump Rod Nut & Fast Idle Rod
	58	P-20739	Rod—Fast Idle
	59	P-20746	Lever—Fast Idle
		P-19575	Ball Joint Connection
	60	P-20745	Screw—Fast Idle Lever Fulcrum
	61	P-20744	Washer—Fast Idle Lever Fulcrum Screw
	62	P-19568	Cam—Fast Idle
	63	P-19587	Nut—Fast Idle Rod Adj. Lock
	64	P-20883	Lockwasher—Choke Valve Attach. Screw
	65	P-19864	Stud—Main Body Attach.
	66	P-20846	Spacer—Choke Stem & Lever
	67	P-17081	Collar—Choke Stem
	68	P-16161	Screw—Choke Stem Collar Set
	69	P-18124-F	Float—Cover
	70	P-17778	Gasket—Float Cover
	71	P-2866	Screw—Float Cover Attach.
	72	P-12167	Lockwasher—Float Cover Attach. Screw
	73	P-16200	Nut—Main Body Attach. Stud
	74	P-15459	Plug—Idle Disch. Drilling Hole
	75	P-21053	Plug—Pump Disch. Channel
	76	P-6387	Plug—Idle Disch. Holes No. 10-32
	77	P-20630	Gasket—Main Disch. Jet—Lead

BENDIX PRODUCTS DIVISION
SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

Printed in U. S. A.

STROMBERG "EX-22" CARBURETOR

STROMBERG NO. A-18092 (CODE NO. 5-7A) OLDS SYMBOL 406405

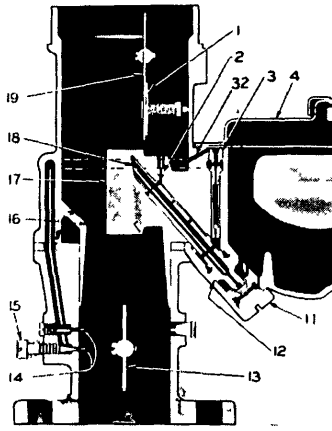
SIZE: 1¼" D.D. S.A.E. 2-11/16" FLANGE CENTERS **REPLACE WITH BXOV-25 EQPT. J-5483**

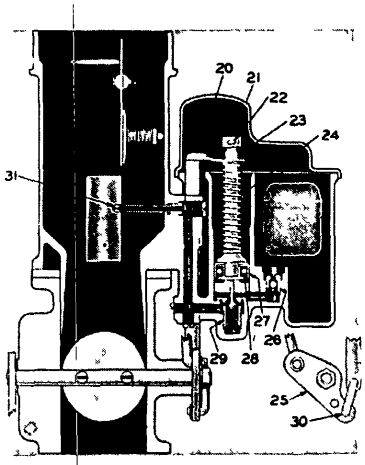
1935
Oldsmobile

MODEL
F-35
3-5/16"x4-1/4"—6 cyl.

PARTS ILLUSTRATED

1. Poppet Valve
2. High Speed Bleed
3. Idle Tube
4. Float Chamber Cover
5. Float Chamber Vent
6. Float
7. Float Needle Valve
8. Float Needle Valve Seat
9. Gasoline Inlet
10. Float Fulcrum Pin
11. Main Discharge Jet Plug
12. Main Metering Jet
13. Throttle Valve
14. Idle Discharge Holes
15. Idle Needle Valve
16. Primary Venturi
17. Auxiliary Venturi
18. Main Discharge Jet
19. Choke Valve
20. Pump Rod
21. Power Adjustment Nut
22. Cotter Pin
23. Piston Connecting Rod
24. Connecting Rod Spring
25. Pump Lever
26. Check Valve
27. Pump Piston
28. Pump Piston Spring
29. Power By-Pass Jet
30. Pump Lever Link
31. Pump Discharge Nozzle





Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **5/8"** below top surface of float chamber (without gasket) at 3 lbs. pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level).

MAIN METERING SYSTEM—Venturi **1-5/32"**; Main Discharge Jet **No. 28-32** P-20748 **(Tool T-24967).** Use new P-20630 Lead Gasket assembled on lower shoulder of main discharge jet; High Speed Bleeder **No. 70** in body. Main Metering Jet **.058"** P-17004 **(Tool T-23844)**; Use **Tool T-5164** Screw Driver for removing main jet plug. Main Metering system controls the flow of fuel up to approximately 65 to 70 M. P. H.

POWER SYSTEM—Combination Power and Pump By-Pass Jet **4 No. 56** P-18149. The Power Jet is brought into action at approximately 65 to 70 M. P. H. Pump piston to rest on seat of by-pass jet (less over-travel) with throttle valve opened **7/16" + — 1/64"** drill (maximum pump setting) (measure with shank end of **7/16"** drill); adjust pump stem nut to obtain correct setting.

ACCELERATION—Pump Discharge Nozzle **No. 66** P-18126; Pump capacity **6** to **8** c.c. per 10 fast strokes, and **13** to **15** c.c. per 10 slow strokes with pump rod link set in minimum setting. Use **Tool T-24972.** Pump action takes place during acceleration period only. Pump to be set at minimum stroke.

IDLE SYSTEM—Idle Discharge holes **Nos. 56-58.** With throttle valve fully closed and **No. 58** drill in idle hole, edge of valve is located **.018" + — .004"** from **No. 58** drill; Idle Air Bleed **No. 56** in idle tube, **No. 50** in main body; Idle Tube **No. 68** P-20627. **Adjustment:** Adjust to smooth running, OUT to make richer and IN to make leaner; throttle at 7 to 8 M. P. H.

FLANGE GASKET—P-4752.

SPECIAL TOOLS REQUIRED—T-24733 Float Adjuster Wrench; T-24967 Main Discharge Jet Remover; T-23844, Main Metering Jet Wrench; T-24970 By-Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burrette Gauge; T-24968 Handle; T-5164 Main Jet Plug Screw Driver.

MOTOR TUNE-UP DATA

SPARK PLUG—.025".
Clean and adjust at regular intervals.

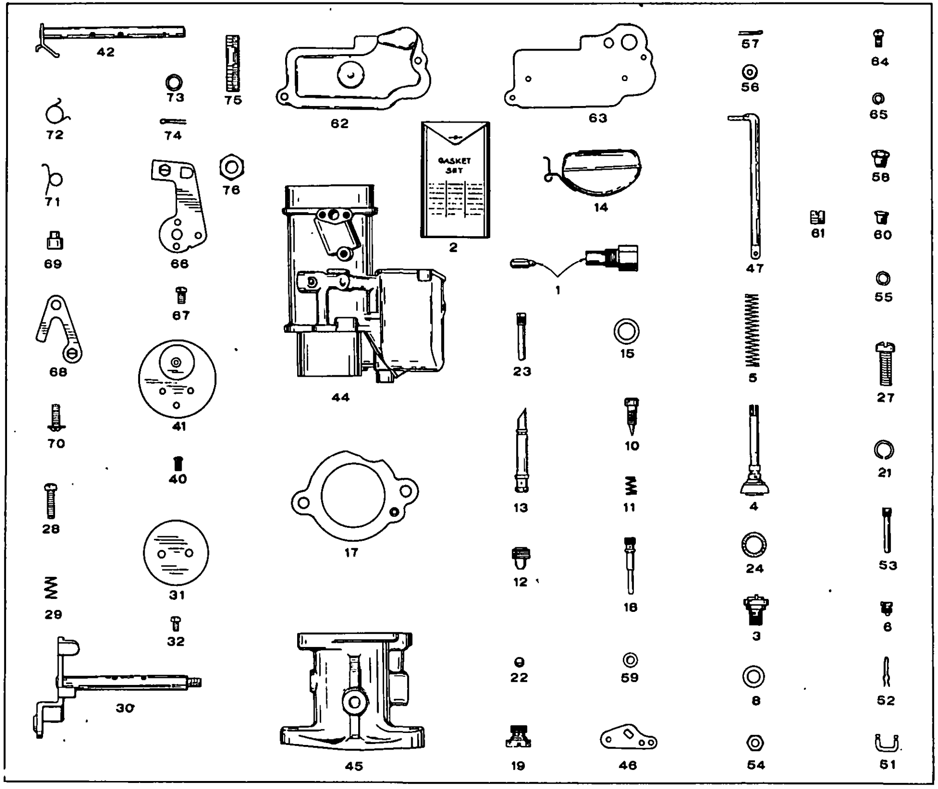
DISTRIBUTOR—.018" to .024".
Breaker gap set .018" to .024".
Replace if necessary.

VALVES—Intake: .008".
Exhaust: .010". **Engine hot.**

IGNITION TIMING—Breaker contacts to open for No. 1 cylinder when "IGN" mark on flywheel is in line with pointer screw in flywheel housing.

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No.	Part No.	Part Name
	1	P-18916	Float Needle Valve and Seat—.086" (NOT VAR.)
	2	J-4533-G	Complete Gasket Set
	3	P-18149	Power By-Pass Jet No. 56 (Not VAR.)
	4	P-20747	Pump Piston & Stem (Includes P-16960)
	5	P-18215	Spring—Pump Duration
	6	P-18144	Pump Inlet Check Valve
	8	P-6855	Gasket—By-Pass Jet
	10	P-17402	Idle Needle Valve
	11	P-15481	Spring—Idle Needle Valve
	12	P-17004	Metering Jet—.058" (VAR.)
	13	P-20748	Main Disch. Jet No. 28-32 (NOT VAR.)
	14	P-17486	Float with Lever
	15	P-10666	Gasket—Main Discharge Jet Plug & Float Needle Valve Seat
	17	P-16943	Gasket—Main Body
	18	P-20627	Idle Tube—No. 68 Feed Hole No. 56 Air Bleed Hole (NOT VAR.)
	19	P-18130	Plug—Main Discharge Jet
	21	P-3838	Lockwasher—Main Body Attach. Screw
	22	P-18772	Lead Ball
	23	P-18125	Screw—Fulcrum—Float Lever
	24	P-16960	Spring—Pump Piston Leather Expansion
	27	P-17000	Screw—Main Body Attach.
	28	P-15456	Screw—Throttle Stop
	29	P-15831	Spring—Throttle Stop Screw
	30	P-18158	Throttle Lever & Stem
	31	P-6454	Throttle Valve (18½°) (VAR.)
	32	P-16717	Screw—Throttle Valve Attach.
	40	P-4522	Screw—Choke Valve Attach.
	41	P-16815	Choke Valve
	42	P-18266	Choke Stem & Stop
	44	P-20842	Main Body—1-5/32" Venturi—**No. 70** H. S. Bleeder (VAR.)

NOTE—For parts marked (VAR.) size must be specified when ordering.

Bin Location	Key No.	Part No.	Part Name
	45	P-19771	Throttle Body—**No. 56-58** Idle Holes (VAR.)
	46	P-18358	Pump Lever
	47	P-19165	Pump Rod
	51	P-18141	Pump Link
	52	P-18114	Cotter Pin—Pump Link
	53	P-18126	Nozzle—Pump Disch. **No. 66** (VAR.)
	54	P-2290	Nut—Pump Lever Attach.
	55	P-1791	Lockwasher—Pump Lever Attach. Nut
	59	P-20630	Gasket—Main Discharge Jet—Lead
	57	P-4	Cotter Pin—Pump Rod Nut
	58	P-21053	Plug—Pump Discharge Channel
	59	P-20630	Gasket—Main Discharge Jet—Lead
	60	P-15459	Plug—Idle Discharge Drilling Hole
	61	P-6387	Plug—Idle Discharge Holes No. 10-32
	62	P-18124-F	Float—Cover
	63	P-17778	Gasket—Float Cover
	64	P-2866	Screw—Float Cover Attach.
	65	P-12167	Lockwasher—Float Cover Attach. Screw
	66	P-17067	Assy.—Tube Holder
		P-17051	Tube Holder
		P-11561	Tube Holder Clamp
		P-12868	Tube Holder Clamp Screw
		P-8806	Tube Holder Clamp Screw Nut
	67	P-17093	Screw—Tube Holder Attach.
	68	P-17053	Choke Lever with Wire Conn. & Screw
		P-12867	Screw—Wire Connector
	69	P-17058	Bushing—Choke Lever
	70	P-17059	Screw—Choke Lever Fulcrum
	71	P-17068	Spring—Choke Valve Return
	72	P-17132	Spring—Choke Lever Return
	73	P-17449	Washer—Choke Stem
	74	P-6666	Cotter Pin—Choke Stem
	75	P-19864	Stud—Main Body Attach.
	76	P-16200	Nut—Main Body Attach. Stud

BENDIX PRODUCTS DIVISION
SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

BENDIX
PARTS RELEASE & CHANGE NOTICE
EFFECTIVE DATE APRIL 9, 1941

Stromberg
No. 41-5D

To: Stromberg Distributors, Associate Distributors, Dealers

Number		Description	List Price
Group	Part		
		INSERT THIS PAGE IN THE PACKARD SECTION OF YOUR STROMBERG 10C CATALOG	
		The following changes have been made on AAV-26 carburetors bearing the Code No. 10-44C Form 10C-702-AAV-26-380037	
		New Part Incorporated	
0.0735	382802	Thermostat Ass'y. (Identified by #18 stamed on cover) instead of Part No. 382016 (Identified by #11) Key No. 86 Page 4 (List Price $1.40)	
		Fig. 4 Page 3	
		On carburetors bearing the above Code No. Fast idle adjustment should be 9/64" instead of 7/64".	
		When repairing or ordering parts for carburetors with Code 10-44B or earlier specify the new thermostat number and make the fast idle setting change.	
		PRICES SUBJECT TO CHANGE WITHOUT NOTICE	

PARTS BOOKS SHOULD BE CHANGED TO AGREE WITH THIS SHEET

BENDIX PRODUCTS DIVISION
OF BENDIX AVIATION CORPORATION
South Bend, Indiana

STROMBERG EE-16 CARBURETOR

STROMBERG NO 380050 (CODE NO 10-47A) PACKARD SYMBOL NO 367614
(For Use with Electromatic Clutch)

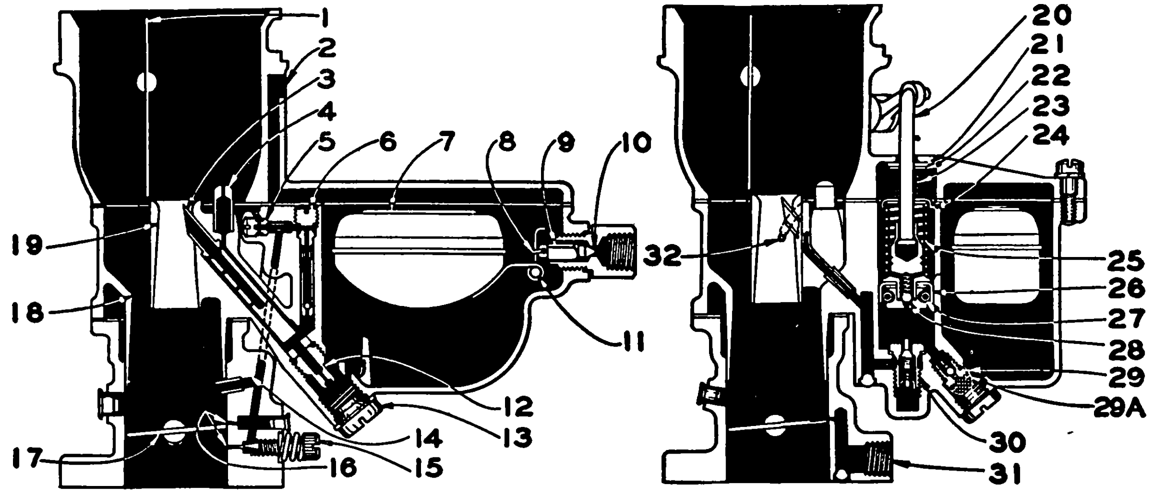
SIZE 1″ DUAL D D 4-HOLE FLANGE

1941 PACKARD

MODEL
120
3-1/4″x4-1/4″—8 cyl.

PARTS ILLUSTRATED

1 Choke Valve
2 Float Chamber Vent
3 Main Discharge Jet
4 High Speed Bleeder
5 Idle Air Bleeder
6 Idle Tube
7 Float
8 Float Needle Clip
9 Float Needle Valve
10 Float Needle Valve Seat
11 Float Fulcrum Pin
12 Main Metering Jet
13 Main Metering Jet Plug
14 Secondary Idle Air Bleed
15 Idle Needle Valve
16 Idle Discharge Holes
17 Throttle Valve
18 Primary Venturi
19 Secondary Venturi
20 Pump Piston Link
21 Dust Washer
22 Retainer Washer
23 Dust Washer Spring
24 Spring Retainer Washer
25 Pump Duration Spring
26 Pump Piston
27 Piston Expansion Spring
28 Pump Relief Valve



29 Pump Inlet Check Valve
29 A Pump Inlet Strainer
30 Power By Pass Jet
31 Vac Spark Control Conn
32 Pump Discharge Nozzle

Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **15/32″** below top surface of float chamber (without gasket) at 5 lbs pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level)

MAIN METERING SYSTEM—Venturi **1-1/32″**; Main Discharge Jet **No. 32** P-23346 (**Tool T-24967**); High Speed Bleeder **No. 65** P-22764 Main Metering Jet .**047″** P-19442 (**Tool T-24924**); Use Tool **T-19099** Screwdriver for removing main jet plug Main metering system controls the flow of fuel up to approximately 65 to 70 M P H

POWER SYSTEM—Combination Power and Pump By-Pass Jet **No. 60** P 20752, Pump piston to rest on seat of by pass jet (less over travel) with throttle valve opened **5/16″** + — **1/64″** drill (measure with shank end of **5/16″** drill), bend pump lever fulcrum arm at ball joint end to obtain correct setting The Power Jet is brought into action at approximately 65 to 70 M P H

ACCELERATION—Pump Discharge Nozzles **No. 65** in main body, Pump capacity **11** to **15** c c per 10 fast strokes, and **17** to **21** c c per 10 slow strokes Use **Tool T-24972.** Pump action takes place during acceleration period only

IDLE SYSTEM—Idle Discharge holes **Nos. 54-58.** With throttle valve fully closed and **No. 58** drill in idle hole, edge of valve is located **.030″** + — **.004″** from **No. 58** drill, Idle Air Bleed **No. 60** in main body P-23649, **No. 38** P 23658 in throttle body, Idle Tube **No. 55** P 23663 Adjustment Adjust to smooth running one barrel at a time, OUT to make richer and IN to make leaner, throttle at 7 to 8 M P H

VACUUM SPARK CONTROL—With throttle fully closed and **No. 50** drill in spark hole, edge of valve is located **Flush** + —**.004″** from **No. 50** drill

FLANGE GASKET—P-21990

SPECIAL TOOLS REQUIRED—Use Packard complete Tool Kit **SER-376** T-24733 Float Adj wrench T-24967 Main Discharge Jet Remover, T-24924 Main Metering Jet Wrench, T-24970 By Pass Jet and Check Valve Tester, T-24972 Pump Capacity Burrette Gauge, T 24968 Handle T 19099 Main Jet Plug Screw driver, T-24971 Float Gauge, T-25056 Auto-Choke Step Gauge, T-25046 Choke Gauge, T-25047 Choke Lever Lock Nut Wrench

MOTOR TUNE-UP DATA

SPARK PLUG—.025″ to .030″.
Clean and adjust at regular intervals.

DISTRIBUTOR—.015″.
Breaker gap set .015″.
Replace if necessary.

IGNITION TIMING—With fuel compensator on distributor set at "zero," spark should occur in No. 1 cylinder 7° before top dead center, Standard head. Flywheel marked "UDCI" indicates top dead center.

VALVES—Intake: .007″.
Exhaust: .010″.
Engine hot.

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

AUTOMATIC CHOKE CONTROL

GENERAL DESCRIPTION

The Stromberg Model EE-16 carburetor has the automatic choke control built into a housing that is integral with the carburetor. The principles used in the operation of the automatic choke control are the same as used on former Stromberg models, i.e , manifold vacuum, thermostat spring, and an offset choke valve in the carburetor The vacuum piston and thermostat are incorporated in the choke control housing They are directly connected to the carburetor choke valve, thereby accurately controlling the opening and closing of the choke valve under varying operating temperatures and at various throttle positions. A tube leading from a "stove" on the exhaust manifold to the thermostat housing transmits heat to govern the tension of the thermostat spring A fast idle cam operating in conjunction with the automatic choke provides the proper throttle opening for a cold engine and thereby prevents the engine from stalling during the warming-up period

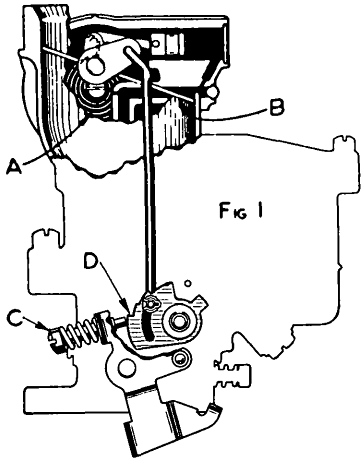


FIG. I

OPERATION AND ADJUSTMENTS

CHOKE CLOSED—FAST IDLE—COLD ENGINE (See FIG. 1)

When the engine becomes cold, the thermostat "A" also cools and gradually gains tension. The thermostat is unable to close the choke valve until the throttle is opened. **It is therefore necessary to depress the accelerator pedal slightly and then allow it to return to normal position before making a start.** Opening the throttle in this manner permits the throttle stop screw "C" to be moved away from the fast idle cam "D" This allows the choke valve to close in accordance with the thermostat tension. The throttle stop screw then comes to rest on a higher lobe of the fast idle cam, providing the proper throttle opening for the prevailing engine temperature. FIG. 1 shows the position of the choke and fast idle mechanisms during the cranking period. Choke valve "B" is held in closed position during this operation by the tension of the thermostat "A."

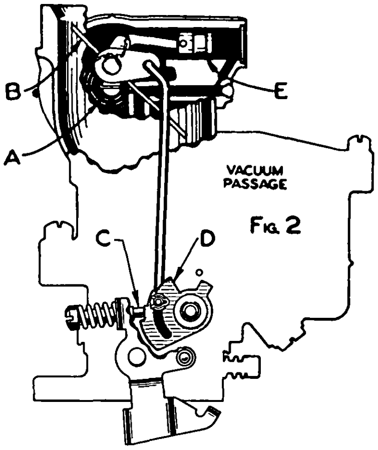


FIG. 2

CHOKE PARTIALLY OPEN—ENGINE FIRING—WARMING-UP PERIOD (FIG. 2)

When the engine begins to fire, the manifold vacuum pulls vacuum piston "E" opening the choke valve "B" against the tension of the thermostat "A." Sufficient air is thereby admitted to give a satisfactory running mixture. As the choke valve opening is increased, the fast idle cam "D" is allowed to revolve so that the throttle stop screw "C" comes to rest on a lower step when the throttle is opened and then permitted to close.

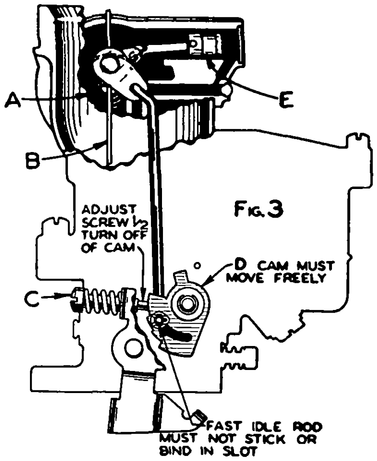

A
E
B
ADJUST SCREW ½ TURN OFF OF CAM
D CAM MUST MOVE FREELY
C
FAST IDLE ROD MUST NOT STICK OR BIND IN SLOT

FIG. 3

ENGINE WARM—CHOKE WIDE OPEN—SLOW IDLE (FIG. 3)

While the engine continues to run, the amount that the choke valve is opened against the tension of the thermostatic spring "A" is governed by the quantity of the inrushing air past the off center choke valve and the travel of the vacuum piston "E" Heat is transmitted into the thermostat housing by hot air being drawn from the "stove" on the exhaust manifold The thermostat gradually absorbs sufficient heat until it does not offer any further resistance to the choke valve opening. At the same time, the fast idle cam "D" rotates until the throttle stop screw "C" is at a normal idle position. The throttle stop screw should be adjusted for a car speed of 7 to 8 M P.H. with the engine at normal operating temperature.

CHECKING FAST IDLE ADJUSTMENT (FIG. 4)

To check fast idle setting of the carburetor, it is merely necessary to hold throttle stop screw "C" against step "S" of fast idle cam "D" as illustrated in Fig. 4. Move the choke valve as far as possible to the closed position. The opening that remains between the choke valve and the air horn should be equivalent to a **35/64″** drill. If this amount of opening is not obtained, it is only necessary to slightly bend the fast idle rod "H" at the point indicated in Fig. 4 Care should be taken so as not to cause a bind in the fast idle mechanism.

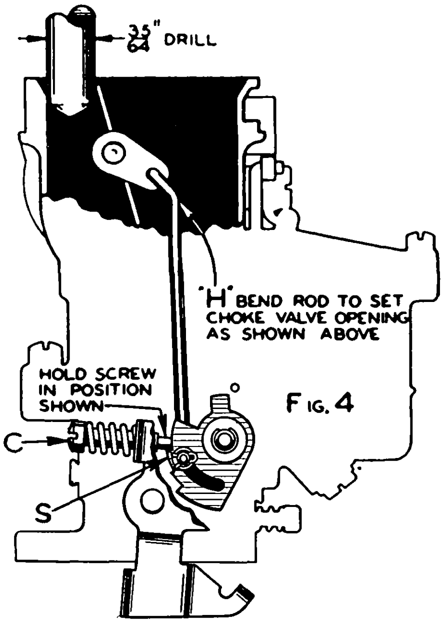

35/64″ DRILL
"H" BEND ROD TO SET CHOKE VALVE OPENING AS SHOWN ABOVE
HOLD SCREW IN POSITION SHOWN
C
S

FIG. 4

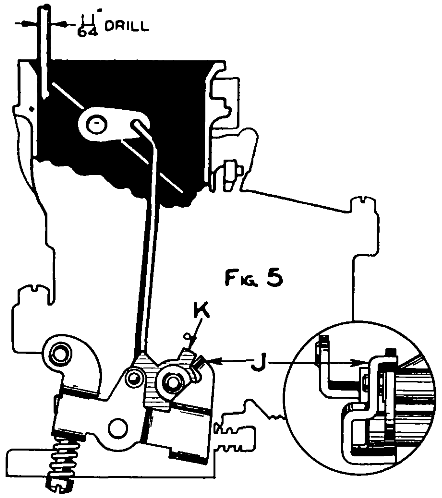


FIG. 5

CHOKE RELEASE (FIG. 5)

If for any reason the engine should become flooded, the choke valve can be partially opened by depressing the accelerator pedal to the full extent of its travel. This results in ear "J" of the fast idle lever making contact with the ear "K" of the fast idle cam, rotating it, and forcing the choke valve partially open.

With the throttle in the wide open position, the opening of the choke valve should be between .156″ and 187″ To measure this hold throttle in wide open position. Then place an **11/64″** drill between the valve and the air horn If it is necessary to readjust this, it can be done by bending ear "J" to give the desired amount of choke valve opening

SERVICING THE AUTOMATIC CHOKE CONTROL

The automatic choke control is properly set at the factory. Under ordinary circumstances it will give many miles of satisfactory service In the operation of the automatic choke control, the one point that must be borne in mind at all times is that all parts of the unit must move freely and not stick or bind in any position of travel.

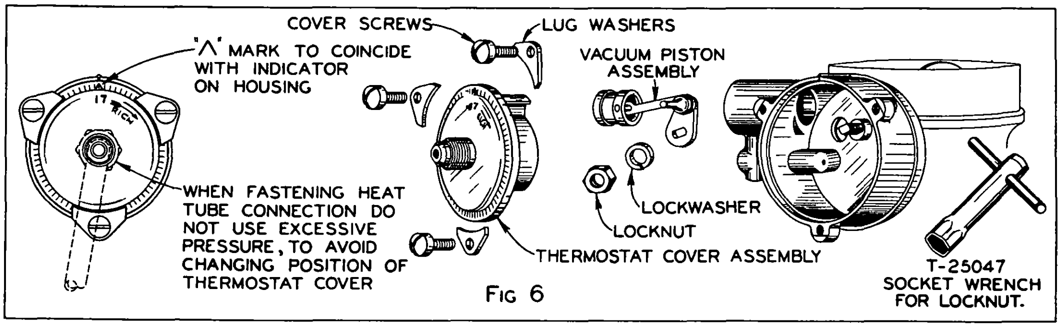

COVER SCREWS
LUG WASHERS
"Λ" MARK TO COINCIDE WITH INDICATOR ON HOUSING
VACUUM PISTON ASSEMBLY
17 RICH
WHEN FASTENING HEAT TUBE CONNECTION DO NOT USE EXCESSIVE PRESSURE, TO AVOID CHANGING POSITION OF THERMOSTAT COVER
LOCKWASHER
LOCKNUT
THERMOSTAT COVER ASSEMBLY
T-25047 SOCKET WRENCH FOR LOCKNUT.

FIG 6

DISASSEMBLY AND ASSEMBLY

TO DISASSEMBLE:—

1. Disconnect the heat tube from the thermostat housing.
2. Remove carburetor from manifold.
3. Remove thermostat cover screws and lug washers. Thermostat cover assembly can then be taken off the choke housing.
4. Remove lock nut with **Tool T-25047.** Remove lock washer.
5. Loosen housing attaching screws slightly, which will make it easier to remove vacuum piston assembly from housing.
6. With a clean rag saturated with Acetone or alcohol, thoroughly clean the cylinder walls of any dirt or foreign material which may have accumulated in regular service. Use compressed air to blow out all of the channels. The surface of the piston should also be thoroughly cleaned Do not use any abrasive materials for cleaning piston or cylinder.

TO ASSEMBLE:—

1. Place vacuum piston in cylinder **Do not use any type of lubricant on piston or in cylinder.** Assemble lever onto choke stem Tighten housing attaching screws securely.
2. Assemble lockwasher and lock nut Use **Tool T-25047** to fasten lock nut securely.
3. Check to see that the choke valve can drop open freely without the slightest lag.

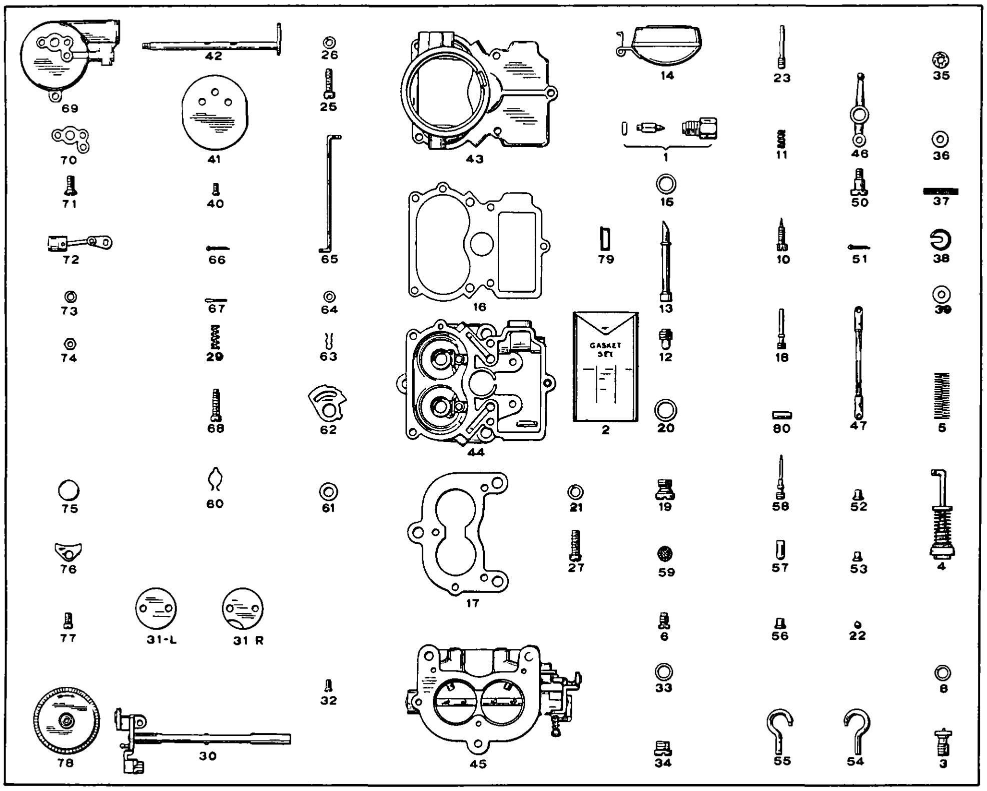
THERMOSTAT ASSEMBLY AND SETTING

The thermostat is calibrated and properly set at the factory to give satisfactory performance with the regular blends of gasoline When placing the thermostat cover on the housing, locate the hook of the thermostat at the bottom and then rotate cover in "RICH" direction until the "Λ" mark coincides with the projection on the housing This procedure is recommended to make certain that the thermostat hook contacts the pin on the choke lever. Place lugs in position and fasten cover screws evenly and securely.

NOTE: A No. 17 is stamped on thermostat cover for identification.

When assembling heat tube connection onto thermostat cover, do not use excessive pressure, otherwise position of the cover will be changed.

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No.	Part No	Part Name
	1	P-23509	Float Needle Valve and Seat 101" (NOT VAR)
	2	J-5410-G	Complete Gasket Set
	3	P-20752	Power By Pass Jet No 60 (NOT VAR)
	4	P-24716	Assy —Pump Piston Link and Spring (Complete)
	5	P-19458	Spring—Pump Duration
	6	P-18144	Pump Inlet Check Valve
	8	P-19448	Gasket—By Pass Jet
	10	P-15478	Idle Needle Valve
	11	P-15481	Spring—Idle Needle Valve
	12	P-19442	Metering Jet 047" (VAR)
	13	P-23346	Main Disch Jet No 32 (NOT VAR)
	14	P-22081	Float and Lever
	15	P-10666	Gasket—Float Needle Valve Seat
	16	P-24032	Gasket—Air Horn
	17	P-24013	Gasket—Main Body
	18	P-23663	Idle Tube
	19	P-22019	Plug—Main Disch Jet
	20	P-2886	Gasket—Main Disch Jet Plug
	21	P-3157	Lockwasher—Main Body Attach Screw
	22	P-18772	Lead Ball
	23	P-18125	Screw—Float Lever Fulcrum
	25	P-3199	Screw—Air Horn Attaching
	26	P-1791	Lockwasher—Air Horn Attach Screw
	27	P-709	Screw—Main Body Attaching
	29	P-15831	Spring—Idle Adj Screw and Fast Idle Adj Screw
	*30	382636	Throttle Lever and Stem
	31 R	P-23357	Throttle Valve (5°) Right (NOT VAR)
	31 L	P-23347	Throttle Valve (5°) Left (NOT VAR)
	32	P-20904	Screw—Throttle Valve Attach
	33	P-7338	Gasket—Check Valve Plug
	34	P-19716	Plug—Check Valve Plug
	35	P-17380	Felt Washer—Pump Link
	36	P-17060	Washer—Pump Link—Splash
	37	P-17753	Spring—Packing Retainer
	38	P-22045	Washer—Cup
	39	P-22046	Washer—Spring Retainer
	40	P-4522	Screw—Choke Valve Attach
	41	P-24024	Choke Valve
	42	P-24025	Choke Stem and Lever
	*43	382642	Assy —Air Horn
	*44	382626	Assy —Main Body **1-1/32"** Venturi (complete with **No 65** H S B, **No. 60** Idle Air Bleed **No. 65** Pump Disch Tubes (VAR.)
	*45	382635	Throttle Body **No 54-58** Idle Disch Holes, **No. 38** Idle Air Bleed, Throttle Valve and Stem (VAR)
	46	P-19427	Pump Lever
	47	P-20458	Pump Rod
	50	P-19433	Screw—Pump Lever Fulcrum
	51	P-7170	Cotter Pin—Pump Rod
	52	P-15459	Plug—Vacuum Spark Control
	53	P-15458	Plug—Idle Disch Holes No 10
	54	P-23808	Tube—Pump Disch —Right No 65 (NOT VAR.)
	55	P-23809	Tube—Pump Disch —Left No 65 (NOT VAR)
	56	P-20454	Plug—Idle Disch Drilling Hole
	57	P-22764	High Speed Bleeder No 65 (NOT VAR)
	58	P-23649	Idle Air Bleed Tube
	59	P-23849	Strainer—Pump Inlet Check Valve
	60	P-21338	Cotter Pin—Fast Idle Cam
	61	P-23203	Washer
	*62	382634	Fast Idle Cam
	63	P-19374	Cotter Pin—Fast Idle Cam Rod
	64	P-21032	Washer—Fast Idle Cam
	65	P-24018	Fast Idle Rod
	66	112-S-1	Cotter Pin—Fast Idle Rod Choke Lever
	67	P-24171	Pin—Fast Idle Cam Stop
	68	P-23277	Screw—Fast Idle Adj
	69	P-24027	Auto Choke Housing
	70	P-23297	Gasket—Auto Choke Housing
	71	P-23918	Screw—Choke Housing Attaching
	72	P-24029	Vac Piston Link and Lever
	73	P-15875	Lockwasher—Piston and Link Attach Nut
	74	P-16571	Nut—Piston and Link Attaching
	75	P-23694	Plug—Air Horn Vent
	76	P-23932	Washer—Therm Cover Attach Screw
	77	P-2866	Screw—Therm Cover Attaching
	†*78	382743	Thermostat Cover and Thermostat
	79	P-21977	Clip—Float Needle
	80	P-19430	Wedge—Pump Discharge Tube

*Indicates New Parts.

†On Carbs with Code No 10 47 Thermostat Unit is covered by Part No P-24751 and should be set 1 notch lean from "A" mark. When replacing Thermostat Unit on Carbs with this Code No use Part No 382743 and set as specified on page 1

BENDIX PRODUCTS DIVISION

SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

STROMBERG AAV-26 CARBURETOR

STROMBERG NO 380037 (CODE NO 10-44) PACKARD SYMBOL NO 364498

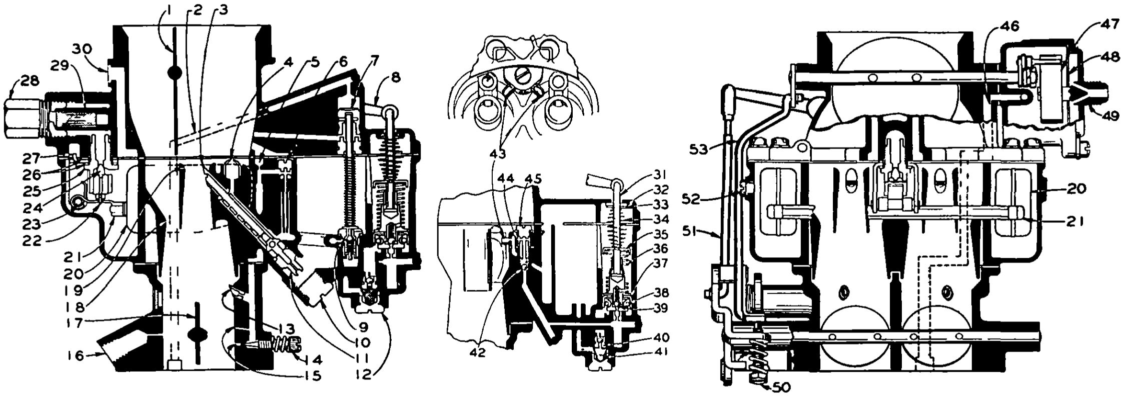
SIZE 1-1/4" DUAL D. D. 4-HOLE FLANGE

1941 PACKARD

MODELS
1903-4-5 and 8
3-1/2" x 4-5/8"—8 cyl.

PARTS ILLUSTRATED

1 Choke Valve
2 Vacuum Power Passage
3 Main Discharge Jet
4 High Speed Bleeder
5 Idle Air Bleeder
6 Idle Tube
7 Vacuum Power Piston
8 Pump Fulcrum Arm
9 Power By Pass Jet
10 Main Jet Plug
11 Metering Jet
12 Check Valve Plug
13 Sec Idle Air Bleed
14 Idle Needle Valve
15 Idle Discharge Holes
16 Vacuum Spark Connection
17 Throttle Valve
18 Primary Venturi
19 Auxiliary Venturi
20 Float
21 Float Lever
22 Float Needle Valve Clip
23 Float Fulcrum Pin
24 Float Needle Valve
25 Float Needle Valve Seat
26 Float Hanger Gasket
27 Float Hanger
28 Gasoline Inlet Conn.
29 Gasoline Strainer



30 Vent
31 Pump Piston Link
32 Pump Felt Washer
33 Pump Felt Retainer
34 Felt Retainer Spring
35 Spring Retainer Washer
36 Pump Duration Spring
37 Pump Piston Leather
38 Piston Leather Exp Spring
39 Pump Relief Valve
40 Check Valve
41 Check Valve Strainer
42 Pump Disch Ball Check
43 Pump Disch Nozzle
44 Pump Disch Restriction
45 Pump Nozzle Attach Scr
46 Auto Choke Vac Passage
47 Thermostat
48 Screen
49 Hot Air Tube Conn
50 Throttle Stop Screw
51. Pump Rod
52 Fuel Level Sight Plug
53. Fast Idle Rod

Note—Specifications below are for latest production; previous major changes listed on parts page.

FUEL LEVEL—Measure **5/8"** below top surface of float chamber (without gasket) or level with bottom of level sight hole at **5 lbs.** pressure To correct fuel level, hold air horn in inverted position Place **Tool T-24971** on gasket Tops of floats should be **5/64"** above tops of vertical guides, which will give approximate fuel level, change if necessary Sides of floats should be parallel to guides of tool without drag

MAIN METERING SYSTEM—Venturi **1-1/8"**; Main Discharge Jet **No. 32** P-23567 (**Tool T-24967**); High Speed Bleeder **No. 70** P-23985. Main Metering Jet **.050"** P-24773 (**Tool T-24924**); Use Tool **T-19099** Screwdriver for removing main jet plug Main metering system controls the flow of fuel up to approximately 65 to 70 M P H.

POWER SYSTEM—Power By-Pass Jet **No. 54** P-21197 Power jet to come into operation at **4"** to **6"** of manifold vacuum, which is approximately 65 to 70 M P H (**Tool T-24733**) used to remove vacuum power piston.

ACCELERATION—Pump Discharge Nozzles **No. 68** P-24594, Pump capacity **14-18** c c Fast and **27-31** c c Slow per 10 strokes Pump rod link set in long stroke 17/32" pump stroke Pump action takes place during acceleration period only

IDLE SYSTEM—Idle Discharge holes **Nos. 54-58.** With throttle valve fully closed and **No. 58** drill in idle hole, edge of valve is located **.022" + — .004"** from **No. 58** drill; Idle Air Bleed **No. 36** P-23536 (in throttle body), **No. 70** in main body, Idle tube **No. 65** 382572. Adjustment Adjust to smooth running one barrel at a time, OUT to make richer and IN to make leaner, throttle at 7 to 8 M P.H.

VACUUM SPARK CONTROL—With throttle fully closed and **No. 58** drill in spark hole, edge of valve is located **.012" + — .004"** from **No. 58** drill

FLANGE GASKET—P-18165

SPECIAL TOOLS REQUIRED—Use Packard complete Tool Kit **SER-376** T-24733 Float. Adj. and power piston wrench T-24967 Main Discharge Jet Remover, T-24924 Main Metering Jet Wrench; T-24970 By-Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burrette Gauge, T-24968 Handle T-19099 Main jet plug screw-driver, T-24971 Float Gauge, T-25056 Auto choke Step Gauge, T-25046 Choke Gauge, T-25047 Choke Lever Lock Nut Wrench T-25085 Choke Gauge.

MOTOR TUNE-UP DATA

SPARK PLUG—.026" to .030".
Clean and adjust at regular intervals.

DISTRIBUTOR—.015".
Breaker gap set .015".
Replace if necessary.

IGNITION TIMING—With fuel compensator on distributor set at "zero" spark should occur in No. 1 cylinder 5° before T. D. C. with Standard Head.

VALVES—Intake:
Exhaust: Hydraulic take up.

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

AUTOMATIC CHOKE CONTROL

GENERAL DESCRIPTION

The automatic choke control is built into a housing integral with the carburetor. The principles used in the operation of the automatic choke are manifold vacuum, thermostat spring, and an offset choke valve in the carburetor. The vacuum piston and thermostat are directly connected to the carburetor choke valve and accurately control the opening and closing of the choke valve under varying operating temperatures and at various throttle positions. A tube leading from the exhaust manifold to the thermostat chamber transmits heat to govern the tension of the thermostat spring. A fast idle cam operating in conjunction with the automatic choke provides the proper throttle opening for a cold engine and thereby prevents the engine from stalling during the warming-up period.

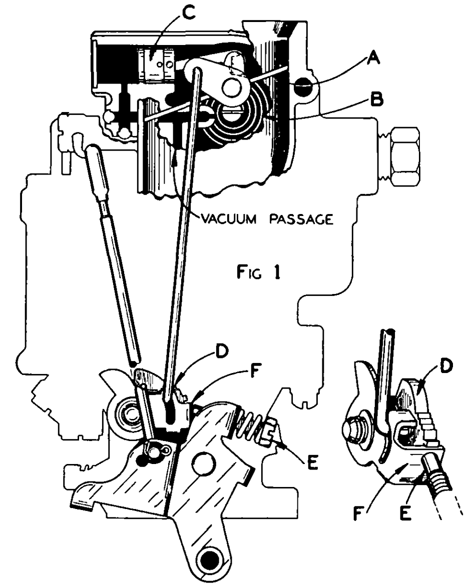


FIG 1

OPERATION AND ADJUSTMENTS

CHOKE CLOSED—FAST IDLE—COLD ENGINE—FIG. 1

When the engine becomes cold, the thermostat "B" also cools and gradually gains tension The thermostat is unable to close the choke valve "A" until the throttle is opened. **It is therefore necessary to depress the accelerator pedal slightly and then allow it to return to normal position before making a start.** Opening the throttle in this manner permits the throttle stop screw "E" to be moved away from the fast idle cam "D" This allows the choke valve to close in accordance with the thermostat tension. The throttle stop screw then comes to rest on a higher lobe of the fast idle cam or on the ear of the loose lever "F" if the choke valve is completely closed as shown in Fig. 1. This provides the proper throttle opening for the prevailing engine temperature. The choke valve "A" is held in closed position during the cranking period by the tension of the thermostat "B"

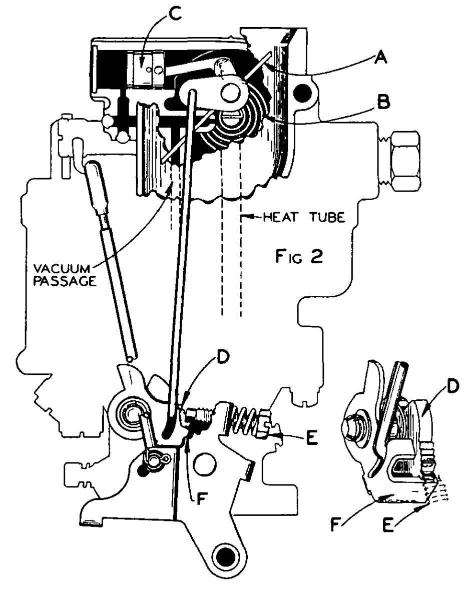


FIG 2

CHOKE PARTIALLY OPENED—ENGINE RUNNING—WARMING UP PERIOD—FIG. 2

When the engine begins to fire, the manifold vacuum thus created pulls the vacuum piston "C," opening the choke valve "A" against the tension of the thermostat "B." Sufficient air is thereby admitted to give a satisfactory running mixture. **When the engine continues to run, it is necessary to open the throttle slightly, which procedure ordinarily occurs when driving the car away. If the car is permitted to stand and idle, the throttle should be opened slightly and then allowed to return to slow idle position.** As the choke valve opening is increased, the fast idle cam "D" is allowed to revolve so that the throttle stop screw "E" comes to rest on a lower step when the throttle is opened and then permitted to close.

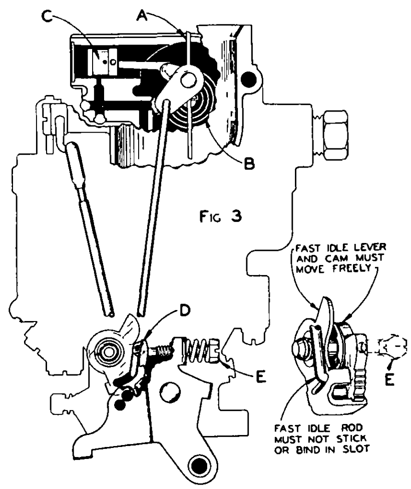

C
A
B
FAST IDLE LEVER AND CAM MUST MOVE FREELY
D
E
E
FAST IDLE ROD MUST NOT STICK OR BIND IN SLOT

FIG 3

ENGINE WARM—CHOKE WIDE OPEN—SLOW IDLE—FIG. 3

While the engine continues to run, the amount that the choke valve is opened against the tension of the thermostat spring "B" is governed by the quantity of inrushing air past the off-center choke valve and the travel of the vacuum piston "C." Heat is transmitted into the thermostat chamber by hot air being drawn from the "stove" on the exhaust manifold. The thermostat gradually absorbs sufficient heat until it does not offer any further resistance to the choke valve opening. At the same time the fast idle cam "D" rotates until the throttle stop screw "E" is at normal idle position, FIG 3. The throttle stop screw should be adjusted for a car speed of 7 to 8 miles per hour with the engine at normal operating temperature. NOTE: It is essential that the lever and cam move freely and that the rod does not stick or bind in the slot of the lever.

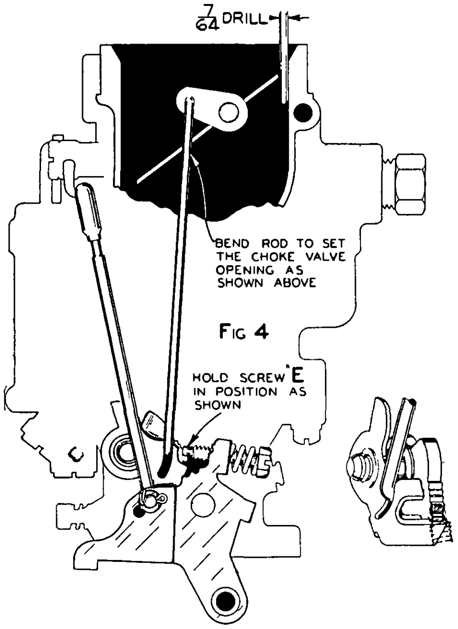

7/64 DRILL
BEND ROD TO SET THE CHOKE VALVE OPENING AS SHOWN ABOVE
HOLD SCREW E IN POSITION AS SHOWN

FIG 4

CHECKING FAST IDLE ADJUSTMENT—FIG. 4

To check the fast idle setting of the carburetor, it is merely necessary to hold the stop screw "E" on the high lobe of the fast idle cam as illustrated in FIG. 4. Move the choke valve as far as possible to the closed position. The opening that remains should be equivalent to a **7/64" drill.** If this amount of opening is not obtained, it is only necessary to slightly bend the fast idle rod at the point indicated in FIG. 4. Care should be taken so as not to cause a bind in the fast idle mechanism.

CHOKE RELEASE—FIG. 5

If for any reason the engine should become flooded, the choke valve can be partially opened by depressing the accelerator pedal to the full extent of its travel. This results in ear "G" of the throttle lever making contact with the fast idle loose lever, rotating it and forcing the choke valve partially open.

With the throttle in the wide open position, the space between the top of the choke valve and the air horn should be between .156" and .187". This can be measured by placing a drill of **11/64"** diameter between the valve and the air horn. If it is necessary to readjust this, it can be done by bending ear "G" to the desired position. **Tool T-25056** choke valve setting gauge is recommended instead of using drills

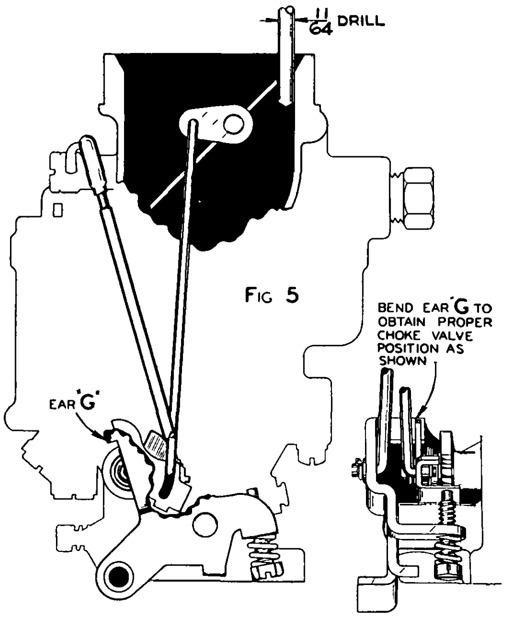


FIG 5

SERVICING THE AUTOMATIC CHOKE CONTROL

The automatic choke control is properly set at the factory Under ordinary circumstances it will give many miles of satisfactory service In the operation of an automatic choke control, the one point that must be borne in mind at all times is that all parts of the unit must operate freely and not stick or bind in any position of travel

DISASSEMBLY

1. Disconnect the heat tube from the thermostat housing
2. Remove carburetor from manifold.
3. Remove thermostat cover screws and lug washers Thermostat cover assembly can then be taken off the choke housing
4. Loosen locknut, removing lock washer and serrated washer.
5. Remove vacuum piston assembly from housing
6. With a clean rag saturated with acetone or alcohol, thoroughly clean the cylinder walls of any dirt or other foreign material which may have accumulated in regular service. Use compressed air to blow out all of the channels. The surface of the piston should also be thoroughly cleaned. Do not use any abrasive materials for cleaning piston or cylinder.
7. Thoroughly clean the screen on the inside of the cover by blowing compressed air into the heat tube connection, and also between the screen and the cover, using precaution not to distort the screen.

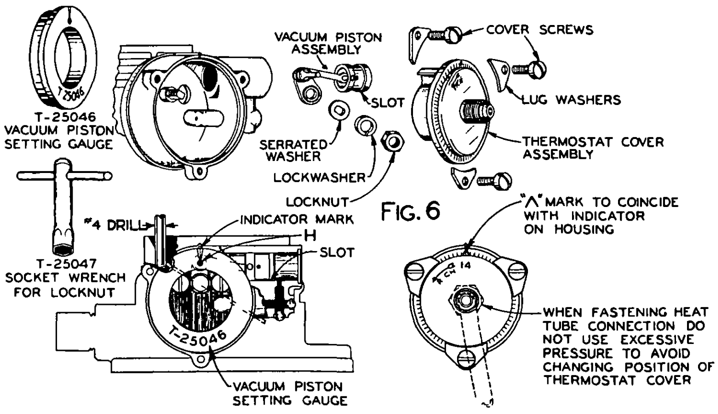

T-25046
VACUUM PISTON SETTING GAUGE
VACUUM PISTON ASSEMBLY
SLOT
SERRATED WASHER
LOCKWASHER
LOCKNUT
COVER SCREWS
LUG WASHERS
THERMOSTAT COVER ASSEMBLY
T-25047
SOCKET WRENCH FOR LOCKNUT
#4 DRILL
INDICATOR MARK
H
SLOT
T-25046
VACUUM PISTON SETTING GAUGE
"Λ" MARK TO COINCIDE WITH INDICATOR ON HOUSING
14
WHEN FASTENING HEAT TUBE CONNECTION DO NOT USE EXCESSIVE PRESSURE TO AVOID CHANGING POSITION OF THERMOSTAT COVER

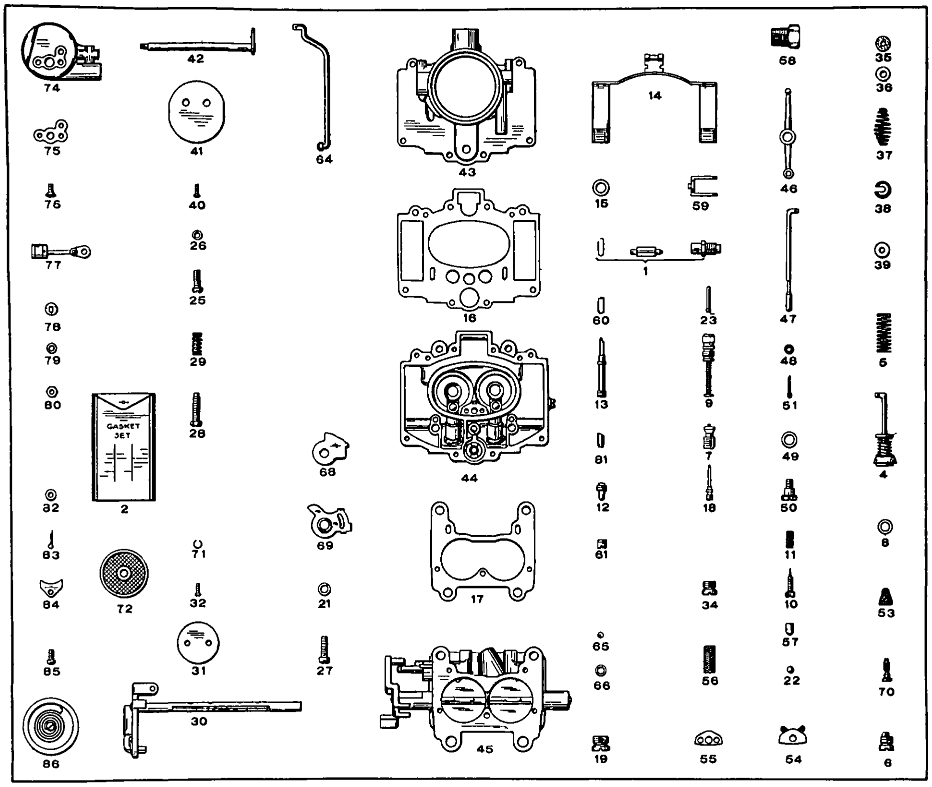
FIG. 6

REASSEMBLY

1. Place vacuum piston in cylinder with slot on piston assembled **DOWN. THIS IS VERY IMPORTANT, ALSO DO NOT USE ANY TYPE OF LUBRICANT ON PISTON OR IN CYLINDER.** Assemble lever onto choke stem. Next assemble serrated washer, lockwasher, and locknut, fastening the nut **merely by hand.**
2. Referring to FIG. 6, place tool **T-25046** on choke housing with the small hole (H) fitting over the pin of the choke lever. The indication line at the outer diameter of the tool should be set to line up with the projection on the choke housing The tool should be held in this position by hand or two of the cover screws and lug washers can be used to do this.
3. Holding choke valve against a **No. 4** drill or **T-25085** between the choke valve and the air horn as illustrated in Fig. 6. Tighten locknut lightly with tool **T-25047.**
4. Remove tool **T-25046.** Hold choke valve in closed position and tighten locknut securely. CHECK CHOKE VALVE OPENING to be certain the setting wasn't disturbed Do not endeavor to change position of serrated washer or piston lever without loosening locknut.

THERMOSTAT SETTING

The thermostat is calibrated and properly set at the factory to give satisfactory performance with the regular blends of gasoline. When placing the thermostat cover assembly on the housing, use precaution that the edge of the screen is not crimped or creased to cause a leak. Locate the thermostat hook at the bottom of the housing and then rotate the cover in the "RICH" direction until the "O" mark coincides with the projection on the housing This procedure is recommended to make certain that the thermostat hook contacts the pin on the choke lever. Place the lugs in position and fasten the cover screws securely. If extremely high volatile fuel is continuously used or if some exceptional condition is encountered, it may be desirable to slightly vary the adjustment of the cover to obtain the best possible performance. **Do not, however, vary the adjustment more than two graduations in either direction.** The thermostat need not be changed unless some part of the assembly has been tampered with or is damaged. In such cases it is necessary to replace the entire assembly. **A No. 14 is stamped on the thermostat cover for identification.** NOTE When assembling heat tube connection nut into thermostat cover, do not use excessive pressure in order to avoid changing the position of the cover.



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No.	Part No.	Part Name
	1	**P-22499**	Float Needle Valve Clip and Seat **(NOT VAR).**
	2	**382394**	Complete Gasket Set
	4	**382414**	Pump Piston Link and Spring (Complete)
	5	**P-24743**	Spring—Pump Duration
	6	**P-18144**	Pump Inlet Check Valve
	7	**P-21197**	Power By Pass Jet No 54 **(NOT VAR)**
	8	**P-19448**	Gasket—By Pass Jet
	9	**P-22803**	Vacuum Power Piston
	10	**P-15478**	Idle Needle Valve
	11	**P-18710**	Spring—Idle Needle Valve
	12	**P-24773**	Metering Jet **.050″** **(VAR.)**
	13	**P-23567**	Main Discharge Jet No 32 **(NOT VAR)**
	14	**P-24780**	Float with Lever
	15	**P-2885**	Gasket—Float Needle Valve Seat
	16	**P-24727**	Gasket—Air Horn
	17	**P-24735**	Gasket—Main Body
	18	**382572**	Idle Tube
	19	**P-23902**	Plug—Main Discharge Jet
	21	**P-3157**	Lockwasher—Main Body Attach Screw
	22	**P-18772**	Lead Ball
	23	**P-22439**	Fulcrum Pin—Float Lever
	25	**P-2475**	Screw—Air Horn Attaching
	26	**P-1791**	Lockwasher—Air Horn Attaching Screw
	27	**P-709**	Screw—Main Body Attaching
	28	**P-19103**	Screw—Throttle Stop
	29	**P-15831**	Spring—Throttle Stop Screw
	30	**P-24777**	Throttle Lever and Stem
	31	**P-24740**	Throttle Valve
	32	**P-23956**	Screw—Throttle Valve Attaching
	34	**P-24678**	Plug—Check Valve
	35	**P-17380**	Washer—Felt
	36	**P-17060**	Washer—Splash—Pump Link
	37	**P-22643**	Spring—Packing Retainer
	38	**P-22045**	Washer—Cup
	39	**P-22046**	Washer—Spring Retainer
	40	**P-4522**	Screw—Choke Valve Attach
	41	**P-23913**	Choke Valve
	42	**P-23959**	Choke Stem and Lever
	43	**P-24642**	Assy —Air Horn
	44	**382410**	Assy —Main Body **1-1/8″** Venturi (Complete with H S Bleeder and Idle Air Bleeder) **(VAR)**
	45	**382417**	Assy —Throttle Body (Complete with **No 54-58** Idle Disch Holes Throttle Valve and Stem) **(VAR.)**
	46	**P-22430**	Pump Lever
	47	**P-22620**	Pump Rod
	48	**P-9394**	Washer—Pump Rod
	49	**P-19820**	Spring—Washer—Pump Lever Fulcrum Screw
	50	**P-20611**	Fulcrum Screw—Pump Lever
	51	**P-7170**	Cotter Pin—Pump Rod and Link
	53	**P-23858**	Strainer—Check Valve
	54	**P-24594**	Nozzle—Pump Disch **No 68** **(VAR.**
	55	**P-24668**	Gasket—Pump Disch Nozzle
	56	**P-23912**	Strainer—Gasoline
	57	**P-23985**	H S Bleeder No 70 **(NOT VAR.)**
	58	**P-24634**	Union—Gas Conn
	59	**P-22441**	Hanger—Float
	60	**P-22523**	Clip—Float Needle Valve
	61	**P-6406**	Plug—Fuel Level Sight
	62	**P-23507**	Plug—Idle Disch Hole (Not illustrated)
	64	**382195**	Rod—Fast Idle
	65	**P-17030**	Ball—Pump Disch Check Valve
	66	**P-17063**	Gasket—Pump Disch Nozzle Attach Screw
	68	**P-23993**	Cam—Fast Idle
	69	**P-23995**	Lever—Fast Idle Cam
	70	**P-24669**	Screw—Pump Disch Nozzle Attach
	71	**P-23974**	Snap Ring—Fast Idle Cam
	72	**P-23927**	Screen—Strainer—Thermostat
	74	**382570**	Housing—Auto Choke
	75	**P-23297**	Gasket—Auto Choke Housing
	76	**P-23918**	Screw—Auto Choke Housing Attach
	77	**P-23919**	Vacuum Piston and Link
	78	**P-23933**	Washer—Thermostat Lever Adj
	79	**P-15875**	Lockwasher—Vac Pist and Link Attach Nut
	80	**P-16571**	Nut—Vac Pist and Link Attach
	81	**P-23536**	Idle Air Bleeder No 36 **(NOT VAR.)**
	83	**112-S-1**	Cotter Pin—Fast Idle Rod
	84	**P-23932**	Washer—Thermostat Cover
	85	**P-2866**	Screw—Thermostat Cover Attach
	86	**382420**	Thermostat Assy

BENDIX PRODUCTS DIVISION

SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

STROMBERG BXOV-26 CARBURETOR

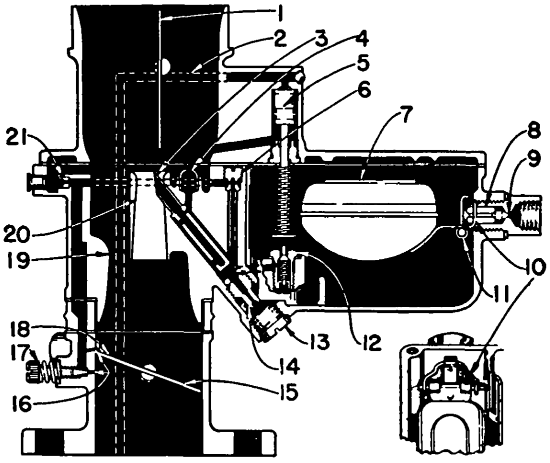
STROMBERG NO 380049 (CODE NO 10-46A) PACKARD SYMBOL NO 367613
(FOR USE WITH ELECTROMATIC CLUTCH)
SIZE 1-3/8″ D D S A E 2-11/16″ FLANGE CENTERS

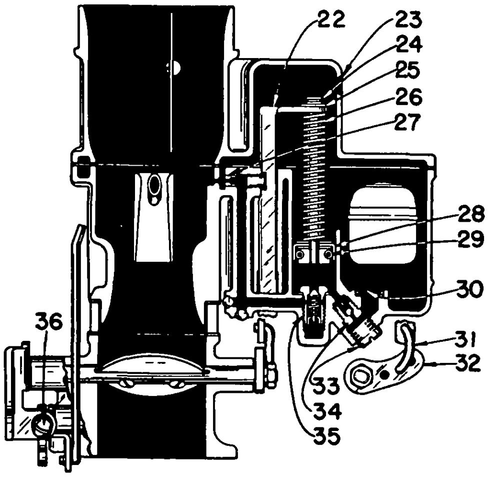
1941 PACKARD

MODEL
1900
3-1/2″ x 4-1/4″—6 cyl.

PARTS ILLUSTRATED

1 Choke Valve
2 Vacuum Passage
3 Main Discharge Jet
4 High Speed Bleeder
5 Vacuum Power Piston
6 Idle Tube
7. Float
8 Float Needle Valve
9 Float Needle Valve Seat
10 Float Fulcrum Pin Clip
11 Float Fulcrum Pin
12 Power By Pass Jet
13 Main Discharge Jet Plug
14 Main Metering Jet
15 Throttle Valve
16 Idle Discharge Holes
17 Idle Needle Valve
18 Vacuum Spark Holes
19 Primary Venturi
20 Auxiliary Venturi
21 Idle Air Bleeder
22 Pump Rod
23 Float Chamber Vent
24 Piston Conn Rod
25. Cotter Pin
26 Pump Duration Spring
27. Pump Discharge Nozzle





28 Pump Piston
29 Pump Piston Exp Spring
30 Pump Inlet Strainer
31 Pump Link
32 Pump Lever
33 Pump Inlet Plug
34 Pump Inlet Check Valve
35 Pump By Pass Jet
36 Throttle Stop Screw

Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **5/8″** below top surface of float chamber (without gasket) at 3 lbs pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level)

MAIN METERING SYSTEM—Venturi **1-7/32″**; Main Discharge Jet **No. 28-34** 382407 (**Tool T-24967**); High Speed Bleeder **No. 68** P 24315 Main Metering Jet **.060″** P-19442 (**Tool T-24924**); Use Tool **T-19099** Screwdriver for removing main jet plug Main metering system controls the flow of fuel up to approximately 65 to 70 M P H

POWER SYSTEM—Power By Pass Jet **No. 53** P-24064, Power jet to come into operation at **4″** to **6″** of manifold vacuum, which is approximately 65 to 70 M P H (**Tool T-24733**) used to remove vacuum power piston

ACCELERATION—Pump Discharge Reducer **No. 68** in main body, Pump By-Pass Jet **2 No. 56** P-24062, Pump capacity **11** to **14** c c per 10 slow strokes with pump rod link set in middle setting Pump travel **1/4″** to **9/32″**. (**Tool T-24972**). Pump action takes place during acceleration period only.

IDLE SYSTEM—Idle Discharge Holes **Nos. 54-60.** With throttle valve fully closed and **No. 60** drill in idle hole, edge of valve is located **.010″** + — **.004″** from **No. 60** drill, Idle Air Bleed **No. 60** in main body, Idle Tube **No. 68** P-21962 Adjustment Adjust to smooth running, OUT to make richer and IN to make leaner, throttle at 7 to 8 M P H.

VACUUM SPARK CONTROL—Drill **2 No. 60** holes above throttle valve and **1 No. 65** reducer located below throttle valve With throttle fully closed and **No. 60** drill in spark hole (above valve), edge of valve is located **Flush** from **No. 60** drill

FLANGE GASKET—P-4752

SPECIAL TOOLS REQUIRED—Use Packard complete Tool Kit **SER-376** T-24733 Float Adj and power piston wrench T-24967 Main Discharge Jet Remover, T-24924 Main Metering Jet Wrench, T-24970 By-Pass Jet and Check Valve Tester, T-24972 Pump Capacity Burrette Gauge, T 24968 Handle T 19099 Main Jet Plug Screwdriver

For Automatic Choke Control Information and Adjustments See Pages 2 and 3 Form 10C-703.

MOTOR TUNE-UP DATA

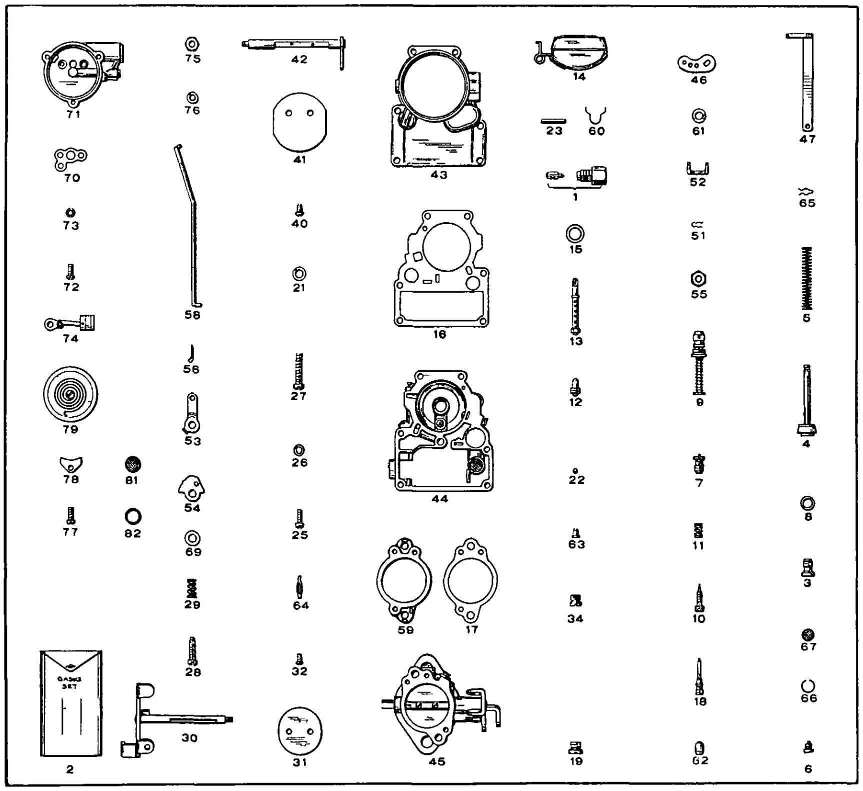
SPARK PLUG—**.025″ to .030″.**
Clean and adjust at regular intervals.

DISTRIBUTOR—**.020″.**
Breaker gap set at .020″.

VALVES—**Intake .007; Exhaust .010″.**
Engine hot.

IGNITION TIMING—**With fuel compensator on distributor set at "zero" spark should occur in No. 1 cylinder 6° before top dead center. Flywheel mark "UDCI" indicates top center.**

SERVICE RECOMMENDATION—**Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.**



SERVICE REPLACEMENT PARTS LIST

Repair Kit No. RK-109

Bin Location	Key No	Part No	Part Name
	1	**P-21918**	Float Needle Valve and Seat 093" **(NOT VAR**
	2	**J-5652-G**	Complete Gasket Set
	3	**P-24062**	Pump By Pass Jet No 56 **(NOT VAR)**
	4	**P-24039**	Pump Piston and Stem (Complete)
	5	**P-24102**	Spring—Pump Duration
	6	**P-18144**	Pump Inlet Check Valve
	7	**P-24064**	Power By Pass Jet No 53 **(NOT VAR)**
	8	**P-19448**	Gasket—By Pass Jet
	* 9	**382749**	Vacuum Power Piston
	10	**P-17402**	Idle Needle Valve
	11	**P-15841**	Spring—Idle Needle Valve
	12	**P-19442**	Metering Jet **060"** **(VAR)**
	*13	**382407**	Main Discharge Jet No 28 34 **(NOT VAR)**
	14	**P-22081**	Float with Lever
	15	**P-10666**	Gasket—Float Needle Valve Seat
	16	**P-24624**	Gasket—Air Horn
	17	**P-24609**	Gasket—Main Body
	18	**P-21962**	Idle Tube
	19	**P-23902**	Plug—Main Discharge Jet
	21	**P-3157**	Lockwasher—Main Body Attach Screw
	22	**P-18772**	Lead Ball
	23	**P-23272**	Pin—Fulcrum—Float Lever
	25	**P-3199**	Screw—Air Horn Attach
	26	**P-1791**	Lockwasher—Air Horn Attach Screw and Pump Lever Nut
	27	**P-22025**	Screw—Main Body Attach
	28	**P-23277**	Screw—Idle Adj
	29	**P-15831**	Spring—Idle Adj Screw
	*30	**382618**	Throttle Lever and Stem
	31	**P-24059**	Throttle Valve (20°) **(NOT VAR)**
	32	**P-4522**	Screw—Throttle Valve Attach
	34	**P-23269**	Plug—Check Valve Channel
	40	**P-22573**	Screw—Choke Valve Attach
	*41	**382024**	Choke Valve
	42	**P-24621**	Choke Lever and Stem
	*43	**382753**	Air Horn Assy
	*44	**382556**	Main Body—**1-7/32** Venturi **No 68** H S Bleeder **No 60** Idle Air Bleeder **No 68** Pump Discharge Tube **(VAR)**
		P-24749	Idle Air Bleed **No 60** **(NOT VAR)**
	*45	**382623**	Throttle Body with Pin **No 54-60** Idle Disch Holes **No 60** Spark Control Holes (Complete with Throttle Valve and Stem) **(VAR)**
	46	**P-21774**	Pump Lever
	47	**P-24837**	Pump Rod
	51	**P-19374**	Cotter Pin—Pump Link and Fast Idle Lever Rod
	52	**P-24836**	Pump Link
	53	**P-24617**	Lever—Fast Idle
	54	**P-24615**	Cam—Fast Idle
	55	**P-2290**	Nut—Pump Lever Attach
	56	**112-S-1**	Cotter Pin—Fast Idle Rod
	58	**P-24616**	Rod—Fast Idle
	59	**P-24608**	Spacer—Main Body Insulator
	60	**P-23273**	Spring—Float Fulcrum Pin
	61	**P-19821**	Spring Washer—Throttle Stem
	62	**P-24315**	High Speed Bleeder No 68 **(NOT VAR)**
	63	**P-15459**	Plug—Idle Air Bleed and Pump Disch Channel
	*64	**P-24879**	Pin—Fast Idle Cam Stop
	65	**P-21338**	Cotter Pin—Pump Stem
	66	**P-23271**	Spring Clip—Pump Strainer
	67	**P-23270**	Screen—Pump Strainer
	69	**P-23203**	Washer—Fast Idle Cam
	70	**P-23297**	Gasket—Auto Choke Housing
	*71	**382425**	Auto Choke Housing (Complete)
	72	**P-12016**	Screw—Auto Choke Housing Attach
	73	**P-15346**	Lockwasher—Auto Choke Housing Attach Screw
	74	**P-24133**	Vacuum Piston with Link and Lever
	75	**P-16571**	Nut—Vacuum Piston and Link Assy Attach
	76	**P-15875**	Lockwasher—Vac Piston and Link Assy Attach Nut
	77	**P-2866**	Screw—Thermostat Lever Attach
	78	**P-23932**	Washer—Thermostat Lever Attach Screw
	*79	**382427**	Thermostat and Cover
	81	**P-24820**	Screen—Air Horn
	82	**P-24819**	Washer—Screen Retainer—Air Horn

*Indicates New Part

BENDIX PRODUCTS DIVISION

SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

Printed in U S A

STROMBERG BXOV-26 CARBURETOR

STROMBERG NO. 380039 (CODE NO. 10-45) PACKARD SYMBOL NO. 362476

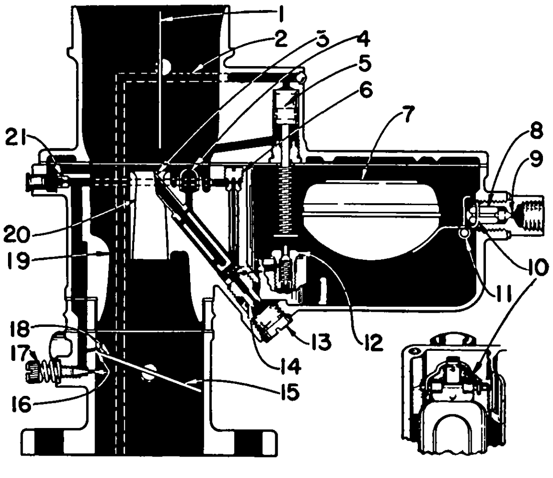
SIZE: 1-3/8″ D. D. S.A E. 2-11/16″ FLANGE CENTERS

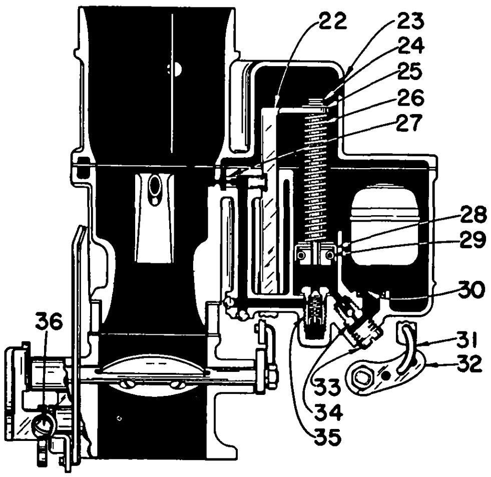
1941
PACKARD

MODEL
1900
3-1/2″ x 4-1/4″—6 cyl.

PARTS ILLUSTRATED

1 Choke Valve
2 Vacuum Passage
3 Main Discharge Jet
4 High Speed Bleeder
5 Vacuum Power Piston
6 Idle Tube
7 Float
8 Float Needle Valve
9 Float Needle Valve Seat
10 Float Fulcrum Pin Clip
11 Float Fulcrum Pin
12 Power By-Pass Jet
13 Main Discharge Jet Plug
14 Main Metering Jet
15 Throttle Valve
16 Idle Discharge Holes
17 Idle Needle Valve
18 Vacuum Spark Holes
19 Primary Venturi
20 Auxiliary Venturi
21 Idle Air Bleeder
22. Pump Rod
23. Float Chamber Vent
24. Piston Conn. Rod
25. Cotter Pin
26. Pump Duration Spring
27. Pump Discharge Nozzle
28 Pump Piston
29 Pump Piston Exp Spring
30 Pump Inlet Strainer
31 Pump Link
32 Pump Lever
33 Pump Inlet Plug
34 Pump Inlet Check Valve
35 Pump By Pass Jet
36 Throttle Stop Screw





Note—Specifications below are for latest production; previous major changes listed on parts page.

FUEL LEVEL—Measure **5/8″** below top surface of float chamber (without gasket) at 3 lbs. pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level).

MAIN METERING SYSTEM—Venturi **1-7/32″**; Main Discharge Jet **No. 28-34** 382407 (**Tool T-24967**); High Speed Bleeder **No. 68** P-24315. Main Metering Jet **.060″** P-19442 (**Tool T-24924**); Use Tool **T-19099** Screwdriver for removing main jet plug. Main metering system controls the flow of fuel up to approximately 65 to 70 M.P H.

POWER SYSTEM—Power By-Pass Jet **No. 53** P-24064; Power jet to come into operation at **4″** to **6″** of manifold vacuum, which is approximately 65 to 70 M.P.H. (**Tool T-24733**) used to remove vacuum power piston.

ACCELERATION—Pump Discharge Reducer **No. 68** in main body; Pump By-Pass Jet **2 No. 56** P-24062; Pump capacity **11** to **14** c.c. per 10 slow strokes with pump rod link set in middle setting. Pump travel **1/4″** to **9/32″**. (**Tool T-24972**). Pump action takes place during acceleration period only.

IDLE SYSTEM—Idle Discharge Holes **Nos. 54-60.** With throttle valve fully closed and **No. 60** drill in idle hole, edge of valve is located **.010″ + — .004″** from **No. 60** drill; Idle Air Bleed **No. 60** in main body; Idle Tube **No. 68** P-21962. Adjustment: Adjust to smooth running, OUT to make richer and IN to make leaner, throttle at 7 to 8 M.P.H.

VACUUM SPARK CONTROL—Drill **2 No. 60** holes above throttle valve and **1 No. 65** reducer located below throttle valve. With throttle fully closed and **No. 60** drill in spark hole (above valve), edge of valve is located **Flush** from **No. 60** drill.

FLANGE GASKET—P-4752.

SPECIAL TOOLS REQUIRED—Use Packard complete Tool Kit **SER-376** T-24733 Float. Adj. and power piston wrench T-24967 Main Discharge Jet Remover; T-24924 Main Metering Jet Wrench, T-24970 By-Pass Jet and Check Valve Tester, T-24972 Pump Capacity Burrette Gauge; T-24968 Handle. T-19099 Main Jet Plug Screwdriver.

MOTOR TUNE-UP DATA

SPARK PLUG—.026″ to .030″.
Clean and adjust at regular intervals.

DISTRIBUTOR—.020″.
Breaker gap set at .020″.

VALVES—Intake .007″; Exhaust .010″.
Engine hot.

IGNITION TIMING—With fuel compensator on distributor set at "zero" spark should occur in No. 1 cylinder 6° before top dead center. Flywheel mark "UDCI" indicates top center. (Std. and H. C. Head.)

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

AUTOMATIC CHOKE CONTROL

GENERAL DESCRIPTION

The Automatic Choke Control is built integral with the carburetor. The principles of operation are the same as previously used, namely: manifold vacuum, heat on a thermostat spring and offset choke valve in the carburetor. The vacuum piston and thermostat are directly connected to the carburetor choke valve and accurately control the opening and closing of the choke valve under varying operating temperatures. A tube leading from the exhaust manifold to the thermostat chamber transmits heat to govern the tension of the thermostat spring. A fast idle cam for the throttle screw prevents the engine from stalling during the warming-up period.

OPERATION AND ADJUSTMENTS

CHOKE CLOSED—FAST IDLE

When starting a cold or warm engine, it is necessary to depress the foot accelerator momentarily. This allows the choke valve to close and the fast idle cam revolves under the stop screw for proper starting position. Fig. 1 shows the position of the mechanism after this has been done. The choke valve "A" is held in closed position during the cranking period by the tension of the thermostat spring "B."

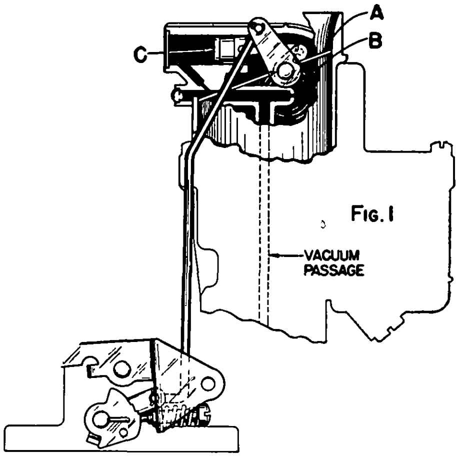


FIG. 1

CHOKE PARTIALLY OPEN—ENGINE FIRING

As the engine begins to fire, the manifold vacuum which is created pulls vacuum piston "C" and opens choke valve "A" against the tension of the thermostat spring "B." Sufficient air is thereby admitted to give a satisfactory running mixture With this action the fast idle cam is allowed to revolve to a lower step. Fig. 2.

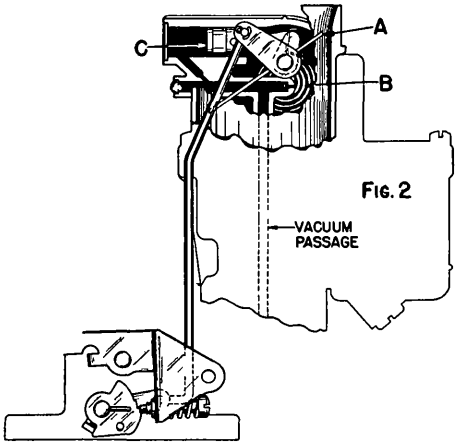


FIG. 2

ENGINE WARM—SLOW IDLE

While the engine continues to run the choke valve "A" is forced open by the inrushing air against the tension of the thermostat spring "B." Heat is transmitted into the thermostat chamber, and the thermostat spring gradually absorbs heat so that its tension decreases until it does not offer any further resistance to the choke valve opening. The choke valve continues to open and allows the fast idle cam to rotate until the throttle stop screw is at normal idle position. See Fig. 3.

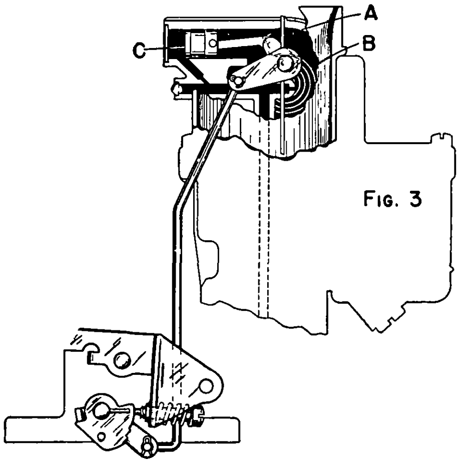


FIG. 3

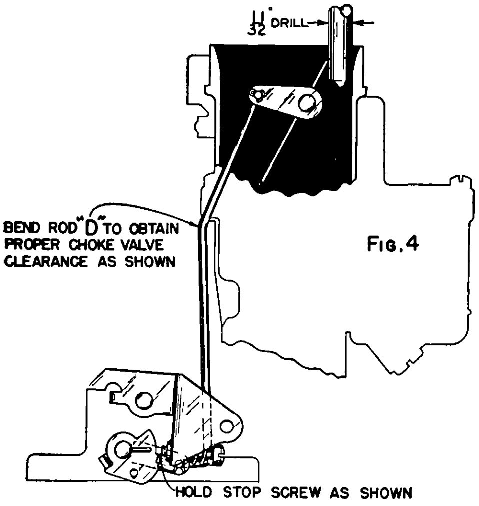

11/32 DRILL
BEND ROD "D" TO OBTAIN PROPER CHOKE VALVE CLEARANCE AS SHOWN
HOLD STOP SCREW AS SHOWN

FIG.4

CHOKE RELEASE AND FAST IDLE ADJUSTMENT

If for any reason the engine should become flooded, the choke valve can be partially opened by depressing the accelerator pedal to the full extent of its travel. This action will admit sufficient air to clear the manifold. The amount of choke valve opening is controlled by the fast idle rod and therefore only one adjustment is required.

To check the adjustment, hold the throttle stop screw on the low lobe of the fast idle cam and against the step as illustrated. Move the choke valve as far as possible to closed position. The opening that remains should be equivalent to a 11/32″ drill. If this amount of opening is not obtained it is necessary to adjust the rod "D" at the bend as required. Care should be taken so as not to cause a bind in the fast idle mechanism.

SERVICING THE AUTOMATIC CHOKE CONTROL

The automatic choke control is properly set at the factory. Under ordinary circumstances it will give many miles of satisfactory service. In the operation of the automatic choke control, the one point that must be borne in mind at all times is that all parts of the unit must move freely and not stick or bind in any position of travel.

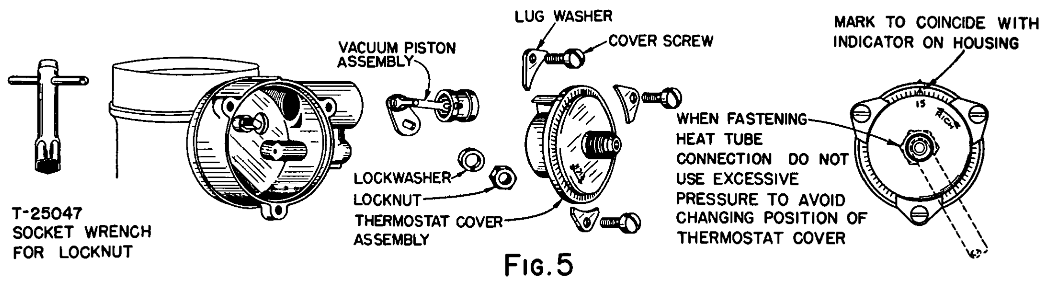

T-25047
SOCKET WRENCH
FOR LOCKNUT
VACUUM PISTON ASSEMBLY
LUG WASHER
COVER SCREW
LOCKWASHER
LOCKNUT
THERMOSTAT COVER ASSEMBLY
WHEN FASTENING HEAT TUBE CONNECTION DO NOT USE EXCESSIVE PRESSURE TO AVOID CHANGING POSITION OF THERMOSTAT COVER
MARK TO COINCIDE WITH INDICATOR ON HOUSING
15

FIG.5

DISASSEMBLY AND ASSEMBLY

To disassemble —

1. Disconnect the heat tube from the thermostat housing
2. Remove carburetor from manifold
3. Remove thermostat cover screws and lug washers. Thermostat cover assembly can then be taken off the choke housing
4. Remove lock nut with tool **T-25047.** Remove lock washer.
5. Loosen housing attaching screws slightly, which will make it easier to remove vacuum piston assembly from housing.
6. With a clean rag saturated with Acetone or alcohol, thoroughly clean the cylinder walls of any dirt or foreign material which may have accumulated in regular service. Use compressed air to blow out all of the channels The surface of the piston should also be thoroughly cleaned. Do not use any abrasive materials for cleaning piston or cylinder.

To assemble:—

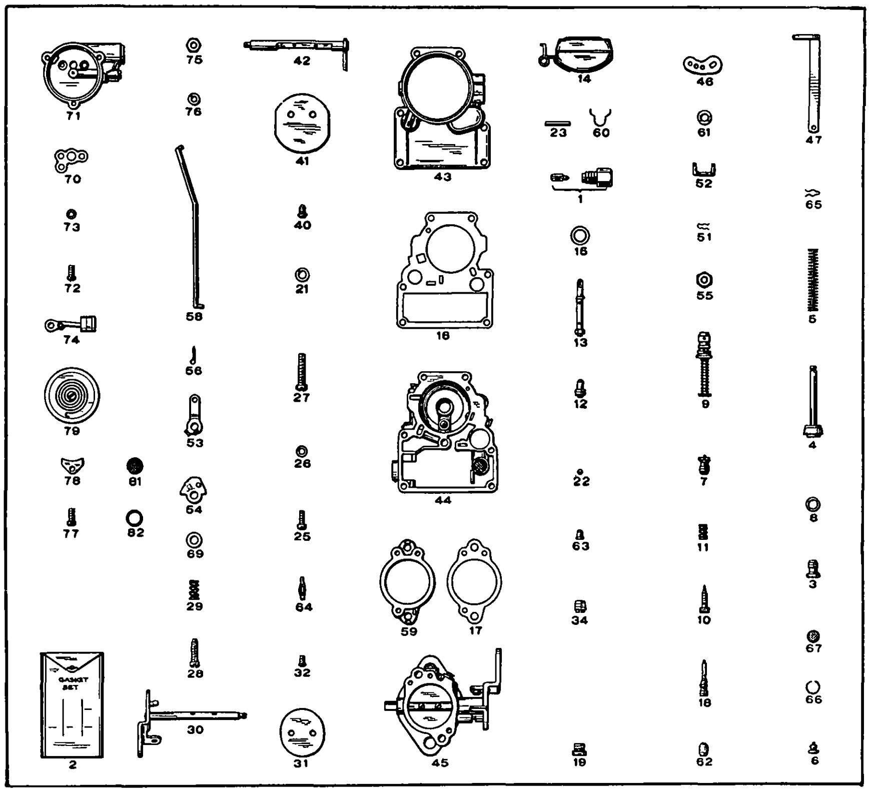
1. Place vacuum piston in cylinder **Do not use any type of lubricant on piston or in cylinder.** Assemble lever onto choke stem. Tighten housing attaching screws securely.
2. Assemble lockwasher and lock nut Use tool **T-25047** to fasten lock nut securely.
3. Check to see that the choke valve can drop open freely without the slightest lag.

THERMOSTAT ASSEMBLY AND SETTING

The thermostat is calibrated and properly set at the factory to give satisfactory performance with the regular blends of gasoline. When placing the thermostat cover on the housing locate the hook of the thermostat at the bottom and then rotate cover in "RICH" direction until the "ʌ" mark coincides with the projection on the housing. This procedure is recommended to make certain that the thermostat hook contacts the pin on the choke lever. Place lugs in position and fasten cover screws evenly and securely. **NOTE: A No. 15 is stamped on thermostat cover for identification.**

When assembling heat tube connection onto thermostat cover, do not use excessive pressure, otherwise position of the cover will be changed.

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No	Part No.	Part Name	
	1	**P-21918**	Float Needle Valve and Seat 093"	**(NOT VAR)**
	2	**J-5652-G**	Complete Gasket Set	
	3	**P-24062**	Pump By Pass Jet No 56	**(NOT VAR)**
	4	**P-24039**	Pump Piston and Stem (Complete)	
	5	**P-24102**	Spring—Pump Duration	
	6	**P-18144**	Pump Inlet Check Valve	
	7	**P-24064**	Power By Pass Jet No 53	**(NOT VAR)**
	8	**P-19448**	Gasket—By Pass Jet	
	9	**P-24043**	Vacuum Power Piston	
	10	**P-17402**	Idle Needle Valve	
	11	**P-15841**	Spring—Idle Needle Valve	
	12	**P-19442**	Metering Jet **060"**	**(VAR)**
	*13	**382407**	Main Discharge Jet No 28 34	**(NOT VAR)**
	14	**P-22081**	Float with Lever	
	15	**P-10666**	Gasket—Float Needle Valve Seat	
	16	**P-24624**	Gasket—Air Horn	
	17	**P-24609**	Gasket—Main Body	
	18	**P-21962**	Idle Tube	
	19	**P-23902**	Plug—Main Discharge Jet	
	21	**P-3157**	Lockwasher—Main Body Attach Screw	
	22	**P-18772**	Lead Ball	
	23	**P-23272**	Pin—Fulcrum—Float Lever	
	25	**P-3199**	Screw—Air Horn Attach	
	26	**P-1791**	Lockwasher—Air Horn Attach Screw and Pump Lever Nut	
	27	**P-22025**	Screw—Main Body Attach	
	28	**P-23277**	Screw—Idle Adj	
	29	**P-15831**	Spring—Idle Adj Screw	
	30	**P-24776**	Throttle Lever and Stem	
	31	**P-24059**	Throttle Valve (20°)	**(NOT VAR)**
	32	**P-4522**	Screw—Throttle Valve Attach	
	34	**P-23269**	Plug—Check Valve Channel	
	40	**P-22573**	Screw—Choke Valve Attach	
	*41	**382024**	Choke Valve	
	42	**P-24621**	Choke Lever and Stem	
	43	**P-24821**	Air Horn Assy	
	*44	**382556**	Main Body—**1-7/32"** Venturi **No 68** H S Bleeder **No 60** Idle Air Bleeder **No 68** Pump Discharge Tube	**(VAR)**
		P-24749	Idle Air Bleed **No 60**	**(NOT VAR)**
	*45	**382403**	Throttle Body with Pin **No. 54-60** Idle Disch Holes **No. 60** Spark Control Holes (Complete with Throttle Valve and Stem)	**(VAR.)**
	46	**P-21774**	Pump Lever	
	47	**P-24837**	Pump Rod	
	51	**P-19374**	Cotter Pin—Pump Link and Fast Idle Lever Rod	
	52	**P-24836**	Pump Link	
	53	**P-24617**	Lever—Fast Idle	
	54	**P-24615**	Cam—Fast Idle	
	55	**P-2290**	Nut—Pump Lever Attach	
	56	**112-S-1**	Cotter Pin—Fast Idle Rod	
	58	**P-24616**	Rod—Fast Idle	
	59	**P-24608**	Spacer—Main Body Insulator	
	60	**P-23273**	Spring—Float Fulcrum Pin	
	61	**P-19821**	Spring Washer—Throttle Stem	
	62	**P-24315**	High Speed Bleeder No 68	**(NOT VAR)**
	63	**P-15459**	Plug—Idle Air Bleed and Pump Disch Channel	
	*64	**P-24879**	Pin—Fast Idle Cam Stop	
	65	**P-21338**	Cotter Pin—Pump Stem	
	66	**P-23271**	Spring Clip—Pump Strainer	
	67	**P-23270**	Screen—Pump Strainer	
	69	**P-23203**	Washer—Fast Idle Cam	
	70	**P-23298**	Gasket—Auto Choke Housing	
	*71	**382425**	Auto Choke Housing (Complete)	
	72	**P-12016**	Screw—Auto Choke Housing Attach	
	73	**P-15346**	Lockwasher—Auto Choke Housing Attach Screw	
	74	**P-24133**	Vacuum Piston with Link and Lever	
	75	**P-16571**	Nut—Vacuum Piston and Link Assy Attach	
	76	**P-15875**	Lockwasher—Vac Piston and Link Assy Attach Nut	
	77	**P-2866**	Screw—Thermostat Lever Attach	
	78	**P-23932**	Washer—Thermostat Lever Attach Screw	
	*79	**382427**	Thermostat and Cover	
	81	**P-24820**	Screen—Air Horn	
	82	**P-24819**	Washer—Screen Retainer—Air Horn	

***Indicates New Part**

BENDIX PRODUCTS DIVISION

SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

STROMBERG AAV-26 CARBURETOR

STROMBERG NO A-19172 (CODE NO. 10-40D) PACKARD SYMBOL NO. 354640

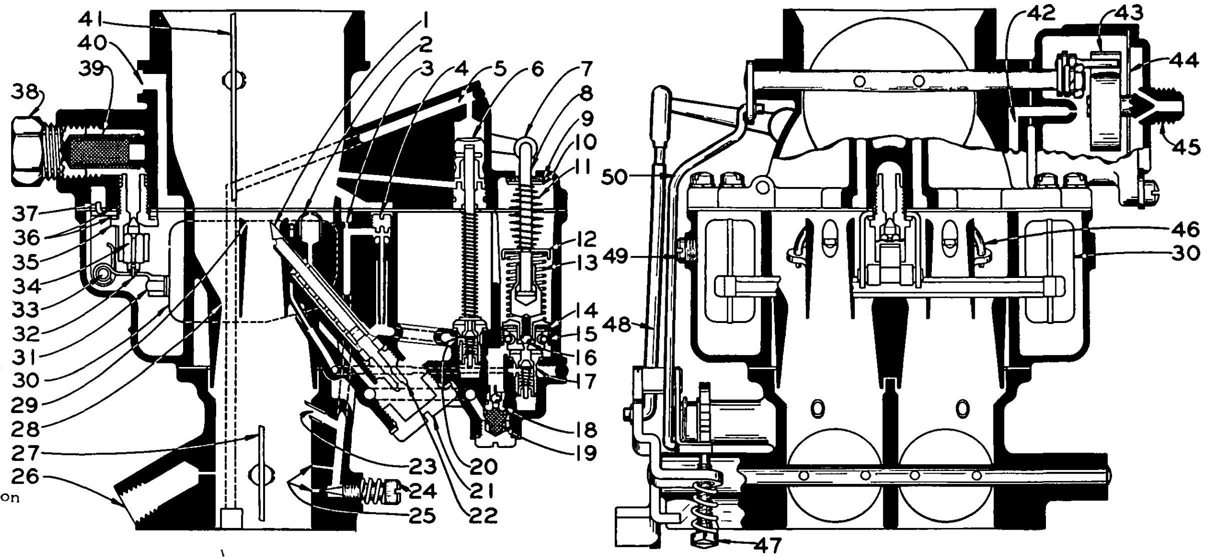
SIZE: 1-1/4" DUAL D. D 4-HOLE FLANGE

NOTE—Specifications given below are for Carburetors with Code 10-40D. For previous specifications see "NOTES" herein and also Form 10C-639C.

1940 PACKARD

MODELS
1803-4-5-6 (160)
1807-08 (180)
3-1/2"x4-5/8"—8 cyl.

PARTS ILLUSTRATED



1 Main Discharge Jet
2 High Speed Bleeder
3 Idle Air Bleeder
4 Idle Tube
5 Vacuum Power Passage
6 Vacuum Power Piston
7 Pump Fulcrum Arm
8 Pump Piston Link
9 Felt Dust Washer
10 Retainer Washer
11 Dust Washer Spring
12 Spring Retainer Washer
13 Pump Duration Spring
14 Pump Piston
15 Piston Expansion Spring
16 Pump Relief Valve
17 Pump By Pass Jet
18 Pump Inlet Check Valve
19 Pump Inlet Strainer
20 Power By Pass Jet
22 Main Discharge Jet Plug
23 Main Metering Jet
24 Sec Idle Air Bleed
21 Idle Needle Valve
25 Idle Discharge Holes
26 Vacuum Spark Connection
27 Throttle Valve
28 Primary Venturi
29 Auxiliary Venturi
30 Float
31 Float Lever
32 Float Needle Valve Clip
33 Float Fulcrum Pin
34 Float Needle Valve
35 Float Needle Valve Seat
36 Float Hanger Gaskets
37 Float Hanger
38 Gasoline Inlet Conn
39 Gasoline Strainer
40 Float Chamber Vent
41 Choke Valve
42 Automatic Choke Vacuum Passage
43 Thermostat
44 Screen
45 Hot Air Tube Conn
46 Pump Dis Nozzle
47 Throttle Stop Screw
48 Pump Rod
49 Fuel Level Sight Plug
50 Fast Idle Rod

Note—Specifications below are for latest production; previous major changes listed on Parts Page.

FUEL LEVEL—Measure **5/8"** below top surface of float chamber (without gasket) or level with bottom of level sight hole at 3 lbs pressure To correct fuel level, hold air horn in inverted position. Place **Tool T-24971** on gasket Tops of floats should be level with tops of vertical guides, which will give approximate fuel level, change if necessary. Sides of floats should be tangent to guides of tool without drag.

MAIN METERING SYSTEM—Venturi **1-1/8"**; Main Discharge Jet **No. 32** P-23567 (**Tool T-24967**); High Speed Bleeder **No. 70** P-23985 Main Metering Jet **.050"** P-19442 (**Tool T-24924**); Use Tool **T-19099** Screwdriver for removing main jet plug Main metering system controls the flow of fuel up to approximately 65 to 70 M P.H.

POWER SYSTEM—Power By-Pass Jet **No. 54** P-21197 Power jet to come into operation at **4"** to **6"** of manifold vacuum, which is approximately 65 to 70 M P H (**Tool T-24733**) used to remove vacuum power piston.

ACCELERATION—Pump Discharge Nozzles **No. 65** in main body, Pump By Pass Jet **No. 68** P-24923, Pump capacity **26-30** c c Fast and Slow per 10 strokes Pump rod link set in maximum setting Pump action takes place during acceleration period only.

IDLE SYSTEM—Idle Discharge holes **Nos. 52-56.** With throttle valve fully closed and **No. 56** drill in idle hole, edge of valve is located **.040"** + — **.004"** from **No. 56** drill, Idle Air Bleed **No. 36** P-23536 (in throttle body), **No. 52** in main body, Idle tube **No. 62** P-24875 Adjustment· Adjust to smooth running one barrel at a time, OUT to make richer and IN to make leaner, throttle at 7 to 8 M.P H

VACUUM SPARK CONTROL—With throttle fully closed and **No. 58** drill in spark hole, edge of valve is located **.012"** + — **.004"** from **No. 58** drill

AUTOMATIC CHOKE AND THERMOSTAT SETTINGS—See automatic choke control, operation and adjustment form 10C-719 Packard section of this catalog.

SETTING A—7/64" Dia Drill
SETTING B—11/64" Dia. Drill, Tool T-25056
SETTING C—15/64" Dia Drill, Tool T-25085
SETTING D—No 11 for Identification

FLANGE GASKET—P-18165

SPECIAL TOOLS mentioned above contained in Tool Kit SER-459. See Form 10-265A.

MOTOR TUNE-UP DATA

SPARK PLUG—.026" to .030".
Clean and adjust at regular intervals.

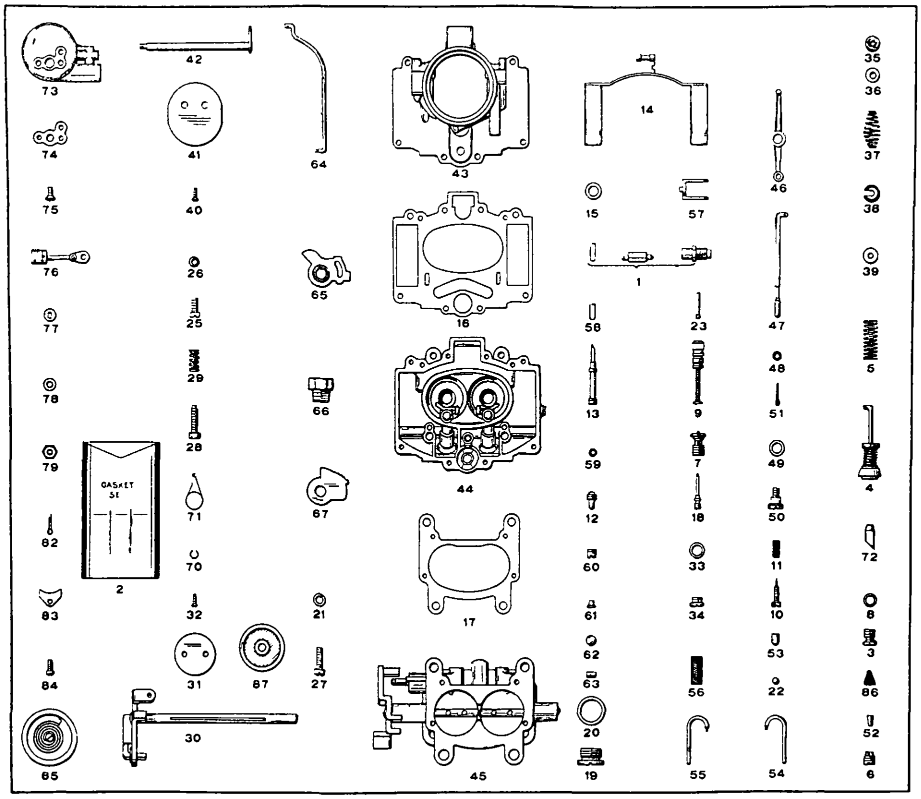
DISTRIBUTOR—.015".
Breaker gap set .015".
Replace if necessary.

IGNITION TIMING—With full compensator on distributor set at "zero" spark should occur in No. 1 cylinder 3½° to 5° before T. D. C. with Standard Head and 2¼° to 4° before T. D. C. with H. C. Head.

VALVES—Intake:
Exhaust: Hydraulic take up.

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Repair Parts Kit No. RK-78

Bin Location	Key No	Part No	Part Name
	1	**P-22499**	Float Needle Valve Clip & Seat 101" **(NOT VAR)**
	2	**J-5421-G**	Complete Gasket Set
	* 3	**P-24923**	Pump By Pass Jet No 68 **(NOT VAR)**
	* 4	**P-24922**	Pump Piston Link and Spring (Complete)
	5	**P-21569**	Spring—Pump Duration
	6	**P-18144**	Pump Inlet Check Valve
	7	**P-21197**	Power By Pass Jet No 54 **(NOT VAR)**
	8	**P-19448**	Gasket—Power and Pump By Pass Jets
	9	**P-22803**	Vacuum Power Piston
	10	**P-15478**	Idle Needle Valve
	11	**P-18710**	Spring—Idle Needle Valve
	12	**P-19442**	Metering Jet 050" **(VAR)**
	13	**P-23567**	Main Discharge Jet No 32 **(NOT VAR)**
	14	**P-22433**	Float with Lever
	15	**P-2885**	Gasket—Float Needle Valve Seat
	16	**P-22885**	Gasket—Air Horn
	17	**P-23940**	Gasket—Main Body
	*18	**P-24875**	Idle Tube
	19	**P-21767**	Plug—Main Discharge Jet
	20	**P-22851**	Gasket—Main Discharge Jet Plug
	21	**P-3157**	Lockwasher—Main Body Attaching Screw
	22	**P-18772**	Lead Ball
	23	**P-22439**	Pin—Fulcrum—Float Lever
	25	**P-2475**	Screw—Air Horn Attaching
	26	**P-6668**	Lockwasher—Air Horn Attaching Screw
	27	**P-709**	Screw—Main Body Attaching
	28	**P-19103**	Screw—Throttle Stop
	29	**P-15831**	Spring—Throttle Stop Screw
	*30	**P-24777**	Throttle Lever and Stem
	*31	**P-24740**	Throttle Valve (5°) **(NOT VAR)**
	32	**P-23956**	Screw—Throttle Valve Attaching
	33	**P-7338**	Gasket—Check Valve Plug
	34	**P-19716**	Plug—Check Valve
	35	**P-17380**	Felt Washer—Pump Link
	36	**P-17060**	Washer—Splash—Pump Link
	37	**P-22643**	Spring—Felt Retainer
	38	**P-22045**	Washer—Cup
	39	**P-22046**	Washer—Spring Retainer
	40	**P-4522**	Screw—Choke Valve Attaching
	41	**P-23913**	Choke Valve
	42	**P-23959**	Choke Stem and Lever
	*43	**P-24642**	Assy —Air Horn
	*44	**P-24635**	Assy —Main Body 1-1/8" Venturi **No** 70 High Speed Bleeder **No** 52 Idle Air Bleed—Pump Discharge Tubes **(VAR)**
	*45	**P-24641**	Assy —Thortle Body **No** 52-56 Idle Disch Holes **No** 36 Idle Air Bleed **(VAR)**
	46	**P-22430**	Pump Lever
	47	**P-22620**	Pump Rod
	48	**P-9394**	Washer—Pump Rod
	49	**P-19820**	Spring Washer—Pump Lever Fulcrum Screw
	50	**P-20611**	Screw—Pump Lever Fulcrum
	51	**P-7170**	Cotter Pin—Pump Rod and Pump Link
	52	**P-19430**	Wedge—Pump Discharge Tube
	53	**P-23985**	High Speed Bleeder No 70 **(NOT VAR)**
	54	**P-23245**	Tube—Pump Disch (Right) No 65 **(NOT VAR)**
	55	**P-23246**	Tube—Pump Disch (Left) No 65 **(NOT VAR.)**
	56	**P-23912**	Strainer—Gasoline
	57	**P-22441**	Float Hanger
	58	**P-22523**	Clip—Float Needle Valve
	59	**P-24088**	Spacer—Fast Idle Cam Spring
	60	**P-6406**	Plug—Fuel Level Sight
	61	**P-15459**	Plug—Idle Disch Hole
	62	**P-8495**	Plug—Expansion
	*63	**P-24263**	Lead Plug—Vac Spark Control Channel
	64	**P-23991**	Fast Idle Rod
	65	**P-23995**	Fast Idle Cam Lever
	*66	**P-24634**	Union—Gas Conn
	67	**P-23993**	Fast Idle Cam
	70	**P-23974**	Ring—Fast Idle Snap
	71	**P-23994**	Spring—Fast Idle Cam
	72	**P-23536**	Idle Air B'eeder—Thro Body
	‡*73	**382020**	Auto Choke Housing
	74	**P-23297**	Gasket—Auto Choke Housing
	75	**P-23918**	Screw—Auto Choke Housing Attaching
	‡76	**P-23919**	Vacuum Piston with Link and Lever
	77	**P-23933**	Washer—Thermostat Lever Adj
	78	**P-15875**	Lockwasher—Vac Piston and Link Attach Nut
	79	**P-16571**	Nut—Vac Piston and Link Attaching
	82	**112-S-1**	Cotter Pin—Fast Idle Rod
	83	**P-23932**	Washer—Therm Cover Assy Attach Screw
	84	**P-2866**	Screw—Therm Cover Assy Attach
	‡*85	**382016**	Thermostat Cover with Thermostat
	86	**P-23858**	Strainer—Pump Inlet Check Valve
	87	**P-23927**	Screen—Thermostat

*Indicates New Part

‡For Carburetors with Code No 10 40C and earlier use—

P 24322 Auto Choke Housing instead of No 382020 Key No 73

P 24001 Vacuum Piston Link and Lever instead of P 23919 Key No 76

382001 Thermostat and Cover instead of 382016 Key No 85

(Thermostat and Cover identified by a **No 3** should be replaced by 382001 382001 is identified by a **No 10**)

BENDIX PRODUCTS DIVISION

SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

Printed in U S A

STROMBERG AAV-26 CARBURETOR

STROMBERG NO. A-19172 (CODE NO. 10-40A) PACKARD SYMBOL NO 341717

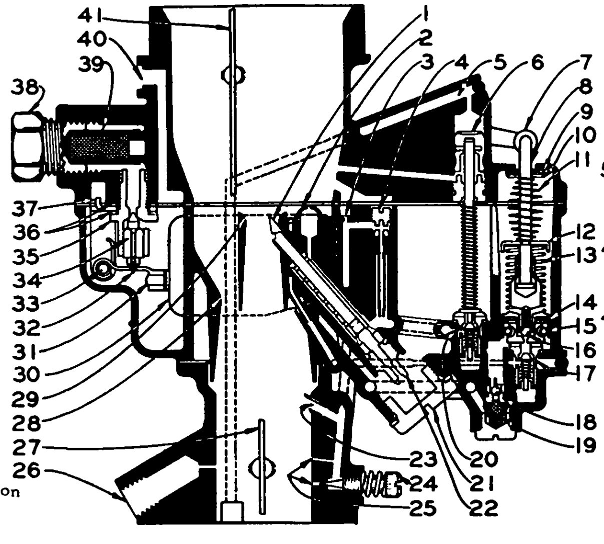
SIZE. 1-1/4" DUAL D D 4-HOLE FLANGE

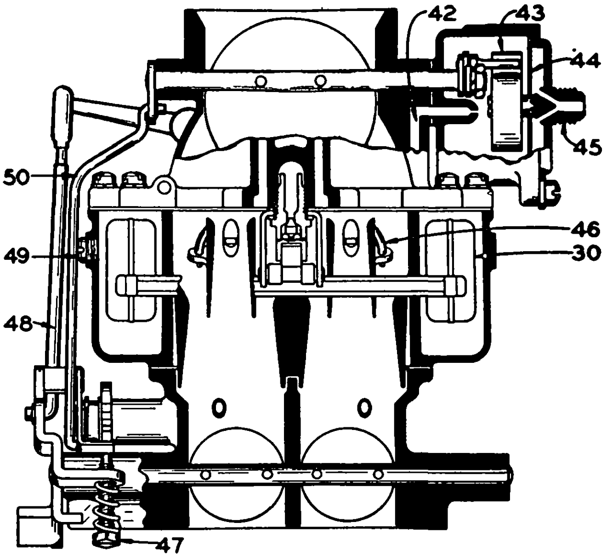
1940 PACKARD

MODELS
1803-4-5-6 (160)
1807-08 (180)
3-1/2"x4-5/8"—8 cyl

PARTS ILLUSTRATED

1 Main Discharge Jet
2 High Speed Bleeder
3 Idle Air Bleeder
4 Idle Tube
5 Vacuum Power Passage
6 Vacuum Power Piston
7 Pump Fulcrum Arm
8 Pump Piston Link
9 Felt Dust Washer
10 Retainer Washer
11 Dust Washer Spring
12 Spring Retainer Washer
13 Pump Duration Spring
14 Pump Piston
15 Piston Expansion Spring
16 Pump Relief Valve
17 Pump By Pass Jet
18 Pump Inlet Check Valve
19 Pump Inlet Strainer
20 Power By Pass Jet
22 Main Discharge Jet Plug
23 Main Metering Jet
24 Sec Idle Air Bleed
21 Idle Needle Valve
25 Idle Discharge Holes
26 Vacuum Spark Connection
27 Throttle Valve
28 Primary Venturi
29 Auxiliary Venturi
30 Float
31 Float Lever
32 Float Needle Valve Clip
33 Float Fulcrum Pin
34 Float Needle Valve





35 Float Needle Valve Seat
36 Float Hanger Gaskets
37 Float Hanger
38 Gasoline Inlet Conn
39 Gasoline Strainer
40 Float Chamber Vent
41 Choke Valve
42 Automatic Choke Vacuum Passage
43 Thermostat
44 Screen
45 Hot Air Tube Conn
46 Pump Dis Nozzle
47 Throttle Stop Screw
48 Pump Rod
49 Fuel Level Sight Plug
50 Fast Idle Rod

Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **5/8"** below top surface of float chamber (without gasket) or level with bottom of level sight hole at 3 lbs pressure To correct fuel level, hold air horn in inverted position Place **Tool T-24971** on gasket Tops of floats should be level with tops of vertical guides, which will give approximate fuel level, change if necessary. Sides of floats should be parallel to guides of tool without drag

MAIN METERING SYSTEM—Venturi **1-1/8"**; Main Discharge Jet **No. 32** P-23567 (**Tool T-24967**); High Speed Bleeder **No. 70** P-23965 Main Metering Jet **.050"** P-19442 (**Tool T-24924**); Use Tool **T-19099** Screwdriver for removing main jet plug. Main metering system controls the flow of fuel up to approximately 65 to 70 M P H

POWER SYSTEM—Power By-Pass Jet **No. 54** P 21197 Power jet to come into operation at **4"** to **6"** of manifold vacuum, which is approximately 65 to 70 M.P H (**Tool T-24733**) used to remove vacuum power piston

ACCELERATION—Pump Discharge Nozzles **No. 65** in main body, Pump By Pass Jet **No. 63** P-23742, Pump rod link set in maximum setting. Pump action takes place during acceleration period only

IDLE SYSTEM—Idle Discharge holes **Nos. 52-56.** With throttle valve fully closed and **No. 56** drill in idle hole, edge of valve is located **.040" + — .004"** from **No. 56** drill, Idle Air Bleed **No. 36** P-23536 (in throttle body), **No. 52** in main body, Idle tube **No. 62** P-24875 Adjustment Adjust to smooth running one barrel at a time, OUT to make richer and IN to make leaner, throttle at 7 to 8 M.P H

VACUUM SPARK CONTROL—With throttle fully closed and **No. 58** drill in spark hole, edge of valve is located **.012" + — .004"** from **No. 58** drill

AUTOMATIC CHOKE AND THERMOSTAT SETTINGS—See automatic choke control, operation and adjustment form 10C-719 Packard section of this catalog

SETTING A—7/64" Dia Drill
SETTING B—11/64" Dia. Drill, Tool T-25056
SETTING C—15/64" Dia Drill, Tool T-25085
SETTING D—No. 11 for Identification

FLANGE GASKET—P-18165

SPECIAL TOOLS MENTIONED ABOVE CONTAINED IN TOOL KIT SER-459 SEE FORM 10-265A

MOTOR TUNE-UP DATA

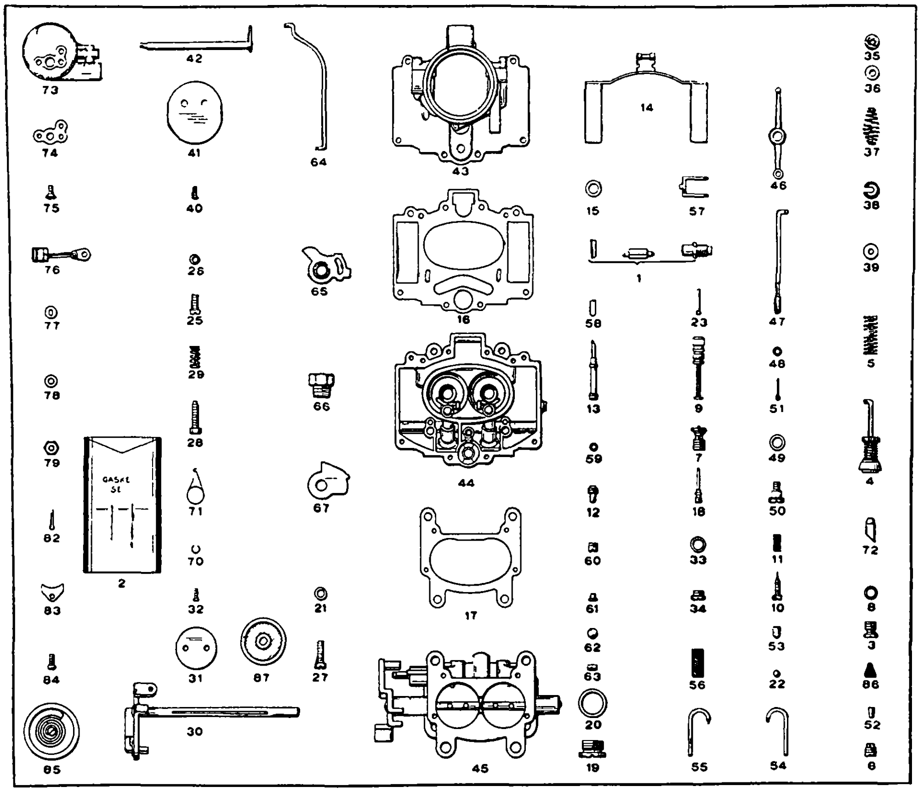
SPARK PLUG—.026" to .030".
Clean and adjust at regular intervals.

DISTRIBUTOR—.015".
Breaker gap set .015".
Replace if necessary.

IGNITION TIMING—With fuel compensator on distributor set at "zero" spark should occur in No. 1 cylinder 3½° to 5° before T. D. C. with Standard Head and 2¼° to 4° before T. D. C. with H. C. Head.

VALVES—Intake:
Exhaust: Hydraulic take up.

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.



SERVICE REPLACEMENT PARTS LIST

Repair Parts Kit No. RK-106

Bin Location	Key No	Part No	Part Name
	1	**P-22499**	Float Needle Valve Clip & Seat 101″ **(NOT VAR.)**
	2	**J-5421-G**	Complete Gasket Set
	3	**P-24923**	Pump By Pass Jet No 63 **(NOT VAR)**
	4	**P-24922**	Pump Piston Link and Spring (Complete)
	5	**P-21569**	Spring—Pump Duration
	6	**P-18144**	Pump Inlet Check Valve
	7	**P-21197**	Power By Pass Jet No 54 **(NOT VAR)**
	8	**P-19448**	Gasket—Power and Pump By Pass Jets
	9	**P-22803**	Vacuum Power Piston
	10	**P-15478**	Idle Needle Valve
	11	**P-18710**	Spring—Idle Needle Valve
	12	**P-19442**	Metering Jet **050″** **(VAR)**
	13	**P-23567**	Main Discharge Jet No 32 **(NOT VAR)**
	14	**P-22433**	Float with Lever
	15	**P-2885**	Gasket—Float Needle Valve Seat
	16	**P-22885**	Gasket—Air Horn
	17	**P-23940**	Gasket—Main Body
	18	**P-24875**	Idle Tube
	19	**P-21767**	Plug—Main Discharge Jet
	20	**P-22851**	Gasket—Main Discharge Jet Plug
	21	**P-3157**	Lockwasher—Main Body Attaching Screw
	22	**P-18772**	Lead Ball
	23	**P-22439**	Pin—Fulcrum—Float Lever
	25	**P-2475**	Screw—Air Horn Attaching
	26	**P-6668**	Lockwasher—Air Horn Attaching Screw
	27	**P-709**	Screw—Main Body Attaching
	28	**P-19103**	Screw—Throttle Stop
	29	**P-15831**	Spring—Throttle Stop Screw
	30	**P-24777**	Throttle Lever and Stem
	31	**P-24740**	Throttle Valve (5°) **(NOT VAR)**
	32	**P-23956**	Screw—Throttle Valve Attaching
	33	**P-7338**	Gasket—Check Valve Plug
	34	**P-19716**	Plug—Check Valve
	35	**P-17380**	Felt Washer—Pump Link
	36	**P-17060**	Washer—Splash—Pump Link
	37	**P-22643**	Spring—Felt Retainer
	38	**P 22045**	Washer—Cup
	39	**P 22046**	Washer—Spring Retainer
	40	**P-4522**	Screw—Choke Valve Attaching
	41	**P-23913**	Choke Valve
	42	**P-23959**	Choke Stem and Lever
	43	**P-24642**	Assy —Air Horn
	44	**P-24635**	Assy —Main Body 1-1/8′ Venturi **No 70** High Speed Bleeder **No 52** Idle Air Bleed—Pump Discharge Tubes **(VAR)**
	45	**P-24641**	Assy —Throttle Body **No 52-56** Idle Disch Holes **No 36** Idle Air Bleed **(VAR)**
	46	**P-22430**	Pump Lever
	47	**P-22620**	Pump Rod
	48	**P-9394**	Washer—Pump Rod
	49	**P-19820**	Spring Washer—Pump Lever Fulcrum Screw
	50	**P-20611**	Screw—Pump Lever Fulcrum
	51	**P-7170**	Cotter Pin—Pump Rod and Pump Link
	52	**P-19430**	Wedge—Pump Discharge Tube
	53	**P-23985**	High Speed Bleeder No 70 **(NOT VAR)**
	54	**P-23245**	Tube—Pump Disch (Right) No 65 **(NOT VAR)**
	55	**P-23246**	Tube—Pump Disch (Left) No 65 **(NOT VAR)**
	56	**P-23912**	Strainer—Gasoline
	57	**P-22441**	Float Hanger
	58	**P-22523**	Clip—Float Needle Valve
	59	**P-24088**	Spacer—Fast Idle Cam Spring
	60	**P-6406**	Plug—Fuel Level Sight
	61	**P-15459**	Plug—Idle Disch Hole
	62	**P-8495**	Plug—Expansion
	63	**P 24263**	Lead Plug—Vac Spark Control Channel
	64	**P-23991**	Fast Idle Rod
	65	**P-23995**	Fast Idle Cam Lever
	66	**P-24634**	Union—Gas Conn
	67	**P-23993**	Fast Idle Cam
	70	**P-23974**	Ring—Fast Idle Snap
	71	**P-23994**	Spring—Fast Idle Cam
	72	**P-23536**	Idle Air Bleeder—Thro Body
	73	**382020**	Auto Choke Housing
	74	**P-23297**	Gasket—Auto Choke Housing
	75	**P-23918**	Screw—Auto Choke Housing Attaching
	76	**P-23919**	Vacuum Piston with Link and Lever
	77	**P-23933**	Washer—Thermostat Lever Adj
	78	**P-15875**	Lockwasher—Vac Piston and Link Attach Nut
	79	**P-16571**	Nut—Vac Piston and Link Attaching
	82	**112-S-1**	Cotter Pin—Fast Idle Rod
	83	**P-23932**	Washer—Therm Cover Assy Attach Screw
	84	**P-2866**	Screw—Therm Cover Assy Attach
	85	**382016**	Thermostat Cover with Thermostat
	86	**P-23858**	Strainer—Pump Inlet Check Valve
	87	**P-23927**	Screen—Thermostat

*Indicates New Part

BENDIX PRODUCTS DIVISION
SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

Printed in U S A

STROMBERG BXOV-26 CARBURETOR

STROMBERG NO. A-19162 (CODE NO. 10-39E) PACKARD SYMBOL NO. 348398

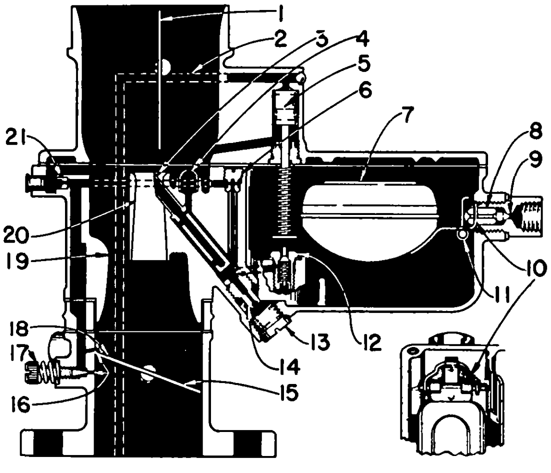
SIZE· 1-1/4″ D D. S A E. 2-11/16″ FLANGE CENTERS

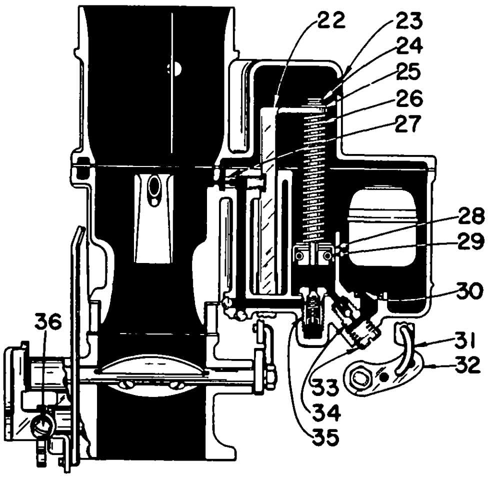
1940
PACKARD

MODEL
1800 (110)
3-1/2″x4-1/4″—6 cyl.

PARTS ILLUSTRATED

1 Choke Valve
2 Vacuum Passage
3 Main Discharge Jet
4 High Speed Bleeder
5 Vacuum Power Piston
6 Idle Tube
7 Float
8 Float Needle Valve
9 Float Needle Valve Seat
10 Float Fulcrum Pin Clip
11 Float Fulcrum Pin
12 Power By Pass Jet
13 Main Discharge Jet Plug
14 Main Metering Jet
15 Throttle Valve
16 Idle Discharge Holes
17 Idle Needle Valve
18 Vacuum Spark Holes
19 Primary Venturi
20 Auxiliary Venturi
21 Idle Air Bleeder
22 Pump Rod
23 Float Chamber Vent
24 Piston Conn Rod
25 Cotter Pin
26 Pump Duration Spring
27 Pump Discharge Nozzle





28 Pump Piston
29 Pump Piston Exp Spring
30 Pump Inlet Strainer
31 Pump Link
32 Pump Lever
33 Pump Inlet Plug
34 Pump Inlet Check Valve
35 Pump By Pass Jet
36 Throttle Stop Screw

Note—Specifications below are for latest production; previous major changes listed on Parts Page.

FUEL LEVEL—Measure **5/8″** below top surface of float chamber (without gasket) at 3 lbs pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level).

MAIN METERING SYSTEM — Venturi **1-7/32″**; Main Discharge Jet **No. 28-34** P-24610 (**Tool T-24967**); High Speed Bleeder **No. 70** P-23985 Main Metering Jet **.060″** P-19442 (**Tool T-24924**); Use Tool **T-19099** Screwdriver for removing main jet plug. Main metering system controls the flow of fuel up to approximately 65 to 70 M P.H

POWER SYSTEM — Power By-Pass Jet **No. 54** P-21197, Power jet to come into operation at **4″** to **6″** of manifold vacuum, which is approximately 65 to 70 M P H. (**Tool T-24733**) used to remove vacuum power piston.

ACCELERATION—Pump Discharge Reducer **No. 68** in main body; Pump By-Pass Jet **2 No. 56** P-24062, Pump capacity **11** to **14** c c. per 10 slow strokes with pump rod link set in middle setting. (**Tool T-24972.**) Pump action takes place during acceleration period only

IDLE SYSTEM—Idle Discharge holes **Nos. 54-56.** With throttle valve fully closed and **No. 56** drill in idle hole, edge of valve is located **Flush + .006″-.000″** from **No. 56** drill, Idle Air Bleed **No. 65** in main body, Idle Tube **No. 65** P-24766 Adjustment. Adjust to smooth running, OUT to make richer and IN to make leaner, throttle at 7 to 8 M P.H.

VACUUM SPARK CONTROL—Drill **2 No. 60** holes above throttle valve and **1 No. 60** hole drilled at random below throttle valve With throttle fully closed and **No. 60** drill in spark hole (above valve), edge of valve is located **Flush** from **No. 60** drill

AUTOMATIC CHOKE AND THERMOSTAT SETTINGS—See automatic choke control, operation and adjustment form 10C-718 Packard section of this catalog.
SETTING A—$\frac{11}{32}$″ Dia Drill
SETTING B—No. 5 for Identification

FLANGE GASKET—P-24314

SPECIAL TOOLS mentioned above contained in Tool Kit SER-459. See Form 10-265A.

MOTOR TUNE-UP DATA

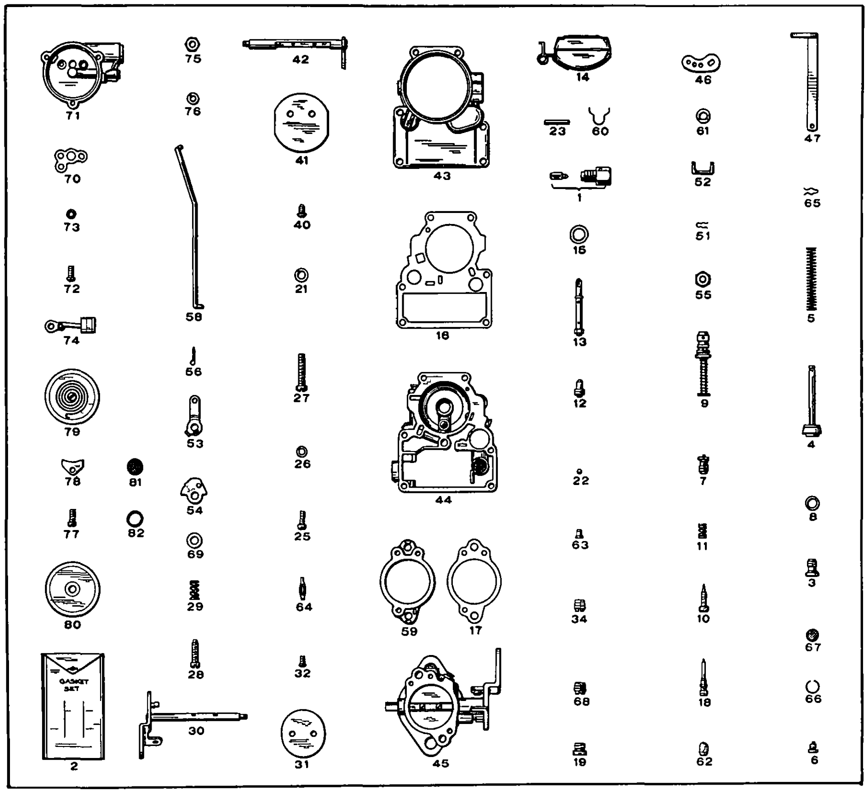
SPARK PLUG—.026″ to .030″.
Clean and adjust at regular intervals.

DISTRIBUTOR—.020″.
Breaker gap set at .020″.

VALVES—Intake .007″; Exhaust .010″.
Engine hot.

IGNITION TIMING—With full compensator on distributor set at "zero" spark should occur in No. 1 cylinder 6° before top dead center. Flywheel mark "UDCI" indicates top center. (Std. and H. C. Head.)

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.



SERVICE REPLACEMENT PARTS LIST

Repair Parts Kit No. RK-77

Bin Location	Key No	Part No.	Part Name
	1	**P-24063**	Float Needle Valve and Seat 086" **(NOT VAR)**
	2	**J-5652-G**	Complete Gasket Set
	3	**P-24062**	Pump By Pass Jet No 56 **(NOT VAR)**
	4	**P-24039**	Pump Piston and Stem (Complete)
	5	**P-24102**	Spring—Pump Duration
	6	**P-18144**	Pump Inlet Check Valve
	7	**P-21197**	Power By Pass Jet No 54 **(NOT VAR)**
	8	**P-19448**	Gasket—By Pass Jet
	9	**P-24043**	Vacuum Power Piston
	10	**P-17402**	Idle Needle Valve
	11	**P-15841**	Spring—Idle Needle Valve
	12	**P-19442**	Metering Jet .060" **(VAR)**
	13	**P-24610**	Main Discharge Jet No 28 34 **(NOT VAR)**
	14	**P-22081**	Float with Lever
	15	**P-10666**	Gasket—Float Needle Valve Seat
	16	**P-24624**	Gasket—Air Horn
	17	**P-24609**	Gasket—Main Body
	18	**P-24766**	Idle Tube
	19	**P-23902**	Plug—Main Discharge Jet
	21	**P-3157**	Lockwasher—Main Body Attach Screw
	22	**P-18772**	Lead Ball
	23	**P-23272**	Pin—Fulcrum—Float Lever
	25	**P-3199**	Screw—Air Horn Attach
	26	**P-1791**	Lockwasher—Air Horn Attach Screw and Pump Lever Nut
	27	**P-22025**	Screw—Main Body Attach
	28	**P-23277**	Screw—Idle Adj
	29	**P-15831**	Spring—Idle Adj Screw
	30	**P-24776**	Throttle Lever and Stem
	31	**P-24059**	Throttle Valve (20°) **(NOT VAR.)**
	32	**P-4522**	Screw—Throttle Valve Attach
	34	**P-23269**	Plug—Check Valve Channel
	40	**P-22573**	Screw—Choke Valve Attach
	‡*41	**382024**	Choke Valve
	42	**P-24621**	Choke Lever and Stem
	43	**P-24821**	Air Horn Assy
	44	**P-24596**	Main Body—1-7/32" Venturi **No 70** H S Bleeder **No 50** Idle Air Bleeder **No 68** Pump Discharge Tube **(VAR)**
		P-24818	Idle Air Bleed **No 65** **(NOT VAR ,**
	45	**P-24597**	Throttle Body with Pin **No 54-60** Idle Disch Holes **No 60** Spark Control Holes **(VAR.)**
	46	**P-21774**	Pump Lever
	47	**P-24837**	Pump Rod
	51	**P-19374**	Cotter Pin—Pump Link and Fast Idle Lever Rod
	52	**P-24836**	Pump Link
	53	**P-24617**	Lever—Fast Idle
	54	**P-24615**	Cam—Fast Idle
	55	**P-2290**	Nut—Pump Lever Attach
	56	**112-S-1**	Cotter Pin—Fast Idle Rod
	*58	**P-24616**	Rod—Fast Idle
	*59	**P-24608**	Spacer—Main Body Insulator
	60	**P-23273**	Spring—Float Fulcrum Pin
	61	**P-19821**	Spring Washer—Throttle Stem
	62	**P-23985**	High Speed Bleeder No 70 **(NOT VAR)**
	63	**P-15459**	Plug—Idle Air Bleed and Pump Disch Channel
	64	**P-24879**	Pin—Fast Idle Cam Stop
	65	**P-21338**	Cotter Pin—Pump Stem
	66	**P-23271**	Spring Clip—Pump Strainer
	67	**P-23270**	Screen—Pump Strainer
	68	**P-3292**	Plug—Governor Connection
	69	**P-23203**	Washer—Fast Idle Cam
	70	**P-23297**	Gasket—Auto Choke Housing
	‡*71	**382022**	Auto Choke Housing (Complete)
	72	**P-12016**	Screw—Auto Choke Housing Attach
	73	**P-15346**	Lockwasher—Auto Choke Housing Attach Screw
	‡74	**P-24133**	Vacuum Piston with Link and Lever
	75	**P-16571**	Nut—Vacuum Piston and Link Assy Attach
	76	**P-15875**	Lockwasher—Vac Piston and Link Assy Attach Nut
	77	**P-2866**	Screw—Thermostat Lever Attach
	78	**P-23932**	Washer—Thermostat Lever Attach Screw
	‡*79	**382026**	Thermostat and Cover
	80	**P-23927**	Screen—Strainer Thermostat Cover
	81	**P-24820**	Screen—Air Horn
	82	**P-24819**	Washer—Screen Retainer—Air Horn

*Indicates New Part

‡NOTE—When repairing or ordering parts for Carbs with Code No 10-39D use P-24647 instead of 382024 Key No 41 P 24619 instead of 382022 Key No 71 P 24623 instead of P 24133 Key No 74 P 24624 instead of 382026 Key No 79 unless the new part designated by ‡ are incorporated in unison

BENDIX PRODUCTS DIVISION

SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

STROMBERG EE-16 CARBURETOR

STROMBERG NO A-18341 (CODE NO 10-33A) PACKARD SYMBOL NO 333749

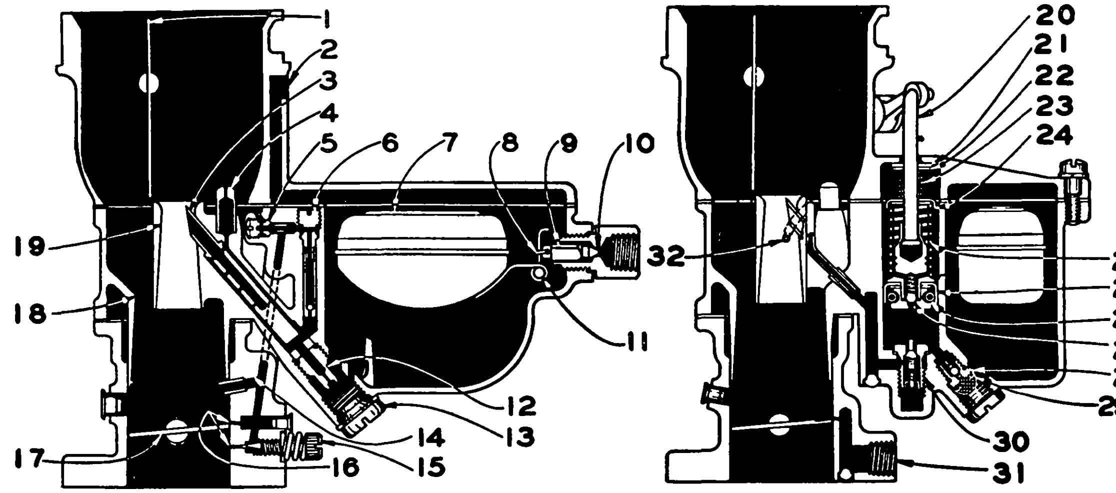
SIZE 1′ DUAL D D 4-HOLE FLANGE

1939-40 PACKARD

MODELS
1701
1801-1A
3-1/4″x4-1/4″—8 cyl.

PARTS ILLUSTRATED

1 Choke Valve
2 Float Chamber Vent
3 Main Discharge Jet
4 High Speed Bleeder
5 Idle Air Bleeder
6 Idle Tube
7 Float
8 Float Needle Clip
9 Float Needle Valve
10 Float Needle Valve Seat
11 Float Fulcrum Pin
12 Main Metering Jet
13 Main Metering Jet Plug
14 Secondary Idle Air Bleed
15 Idle Needle Valve
16 Idle Discharge Holes
17 Throttle Valve
18 Primary Venturi
19 Secondary Venturi
20 Pump Piston Link
21 Dust Washer
22 Retainer Washer
23 Dust Washer Spring
24 Spring Retainer Washer
25 Pump Duration Spring
26 Pump Piston
27 Piston Expansion Spring
28 Pump Relief Valve
29 Pump Inlet Check Valve
29 A Pump Inlet Strainer
30 Power By Pass Jet
31 Vac Spark Control Conn
32 Pump Discharge Nozzle



Note—Specifications below are for latest produciton; previous major changes listed on Parts Page.

FUEL LEVEL—Measure **15/32″** below top surface of float chamber (without gasket) at 3 lbs pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level)

MAIN METERING SYSTEM — Venturi **1-1/32″**; Main Discharge Jet **No. 32** P-23346 (**Tool T-24967**); High Speed Bleeder **No. 65** P-22764 Main Metering Jet **.047″** P-19442 (**Tool T-24924**); Use Tool **T-19099** Screwdriver for removing main jet plug Main metering system controls the flow of fuel up to approximately 65 to 70 M P H

POWER SYSTEM—Combination Power and Pump By-Pass Jet **No. 60** P-20752, Pump piston to rest on seat of by-pass jet (less over-travel) with throttle valve opened **5/16″** + — **1/64″** drill (measure with shank end of **5/16″** drill), bend pump lever fulcrum arm at ball joint end to obtain correct setting The Power Jet is brought into action at approximately 65 to 70 M P H

ACCELERATION—Pump Discharge Nozzles **No. 65** in main body, Pump capacity **11** to **15** c c per 10 fast strokes, and **17** to **21** c c per 10 slow strokes Use **Tool T-24972.** Pump action takes place during acceleration period only.

IDLE SYSTEM—Idle Discharge holes **Nos. 54-58.** With throttle valve fully closed and **No. 58** drill in idle hole, edge of valve is located **.030″** + —**.004″** from **No. 58** drill, Idle Air Bleed **No. 60** in main body P-23649, **No. 38** P-23658 in throttle body, Idle Tube **No. 55** P-23663 Adjustment Adjust to smooth running one barrel at a time, OUT to make richer and IN to make leaner, throttle at 7 to 8 M P H

VACUUM SPARK CONTROL—With throttle fully closed and **No. 50** drill in spark hole, edge of valve is located **Flush** + —**.004″** from **No. 50** drill

FLANGE GASKET—P-21990

SPECIAL TOOLS REQUIRED—Use Packard complete Tool Kit **SER-376** T-24733 Float Adj wrench T-24967 Main Discharge Jet Remover, T-24924 Main Metering Jet Wrench, T-24970 By-Pass Jet and Check Valve Tester, T-24972 Pump Capacity Burrette Gauge, T-24968 Handle T-19099 Main Jet Plug Screw-driver, T-24971 Float Gauge, T 25056 Auto Choke Step Gauge, T-25046 Choke Gauge, T 25047 Choke Lever Lock Nut Wrench

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MOTOR TUNE-UP DATA

SPARK PLUG—.026″ to .030″.
Clean and adjust at regular intervals.

DISTRIBUTOR—.015″.
Breaker gap set .015″.
Replace if necessary.

IGNITION TIMING—With fuel compensator on distributor set at "zero," spark should occur in No. 1 cylinder 8° before top dead center, Standard head, and 7° before top dead center with H. C. head. Flywheel Marked "UDCI" indicates top dead center

VALVES—Intake: .007″.
Exhaust: .010″.
Engine hot.

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

AUTOMATIC CHOKE CONTROL

GENERAL DESCRIPTION

The Stromberg Model EE 16 carburetor has the automatic choke control built into a housing that is integral with the carburetor. The principles used in the operation of the automatic choke control are the same as used on former Stromberg models, i e , manifold vacuum, thermostat spring, and an offset choke valve in the carburetor. The vacuum piston and thermostat are incorporated in the choke control housing. They are directly connected to the carburetor choke valve, thereby accurately controlling the opening and closing of the choke valve under varying operating temperatures and at various throttle positions. A tube leading from a "stove" on the exhaust manifold to the thermostat housing transmits heat to govern the tension of the thermostat spring. A fast idle cam operating in conjunction with the automatic choke provides the proper throttle opening for a cold engine and thereby prevents the engine from stalling during the warming up period.

OPERATION AND ADJUSTMENTS

CHOKE CLOSED—FAST IDLE—COLD ENGINE (See FIG. 1)

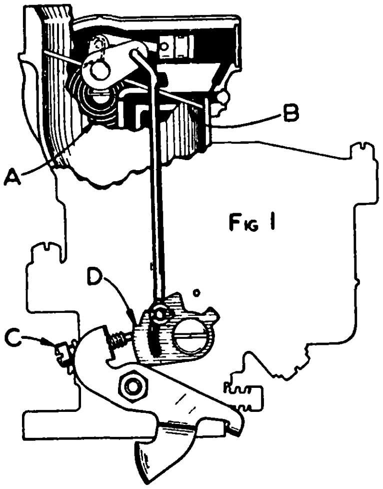


FIG I

When the engine becomes cold, the thermostat "A" also cools and gradually gains tension. The thermostat is unable to close the choke valve until the throttle is opened. **It is therefore necessary to depress the accelerator pedal slightly and then allow it to return to normal position before making a start.** Opening the throttle in this manner permits the fast idle screw "C" to be moved away from the fast idle cam "D". This allows the choke valve to close in accordance with the thermostat tension. The fast idle screw then comes to rest on a higher lobe of the fast idle cam providing the proper throttle opening for the prevailing engine temperature. FIG 1 shows the position of the choke and fast idle mechanisms during the cranking period. Choke valve "B" is held in closed position during this operation by the tension of the thermostat "A".

CHOKE PARTIALLY OPEN—ENGINE FIRING—WARMING-UP PERIOD (FIG. 2)

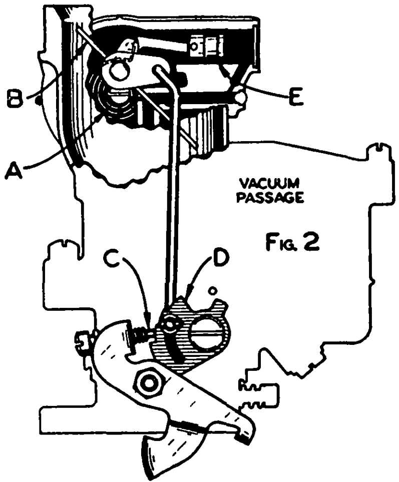


FIG. 2

When the engine begins to fire, the manifold vacuum pulls vacuum piston "E" opening the choke valve "B" against the tension of the thermostat "A". Sufficient air is thereby admitted to give a satisfactory running mixture. As the choke valve opening is increased, the fast idle cam "D" is allowed to revolve so that the fast idle screw "C" comes to rest on a lower step when the throttle is opened and then permitted to close.

ENGINE WARM—CHOKE WIDE OPEN—SLOW IDLE (FIG. 3)

While the engine continues to run, the amount that the choke valve is opened against the tension of the thermostatic spring "A" is governed by the quantity of the inrushing air past the off center choke valve and the travel of the vacuum piston "E". Heat is transmitted into the thermostat housing by hot air being drawn from the "stove" on the exhaust manifold. The thermostat gradually absorbs sufficient heat until it does not offer any further resistance to the choke valve opening. At the same time, the fast idle cam "D" rotates until the screw "C" no longer contacts the cam.

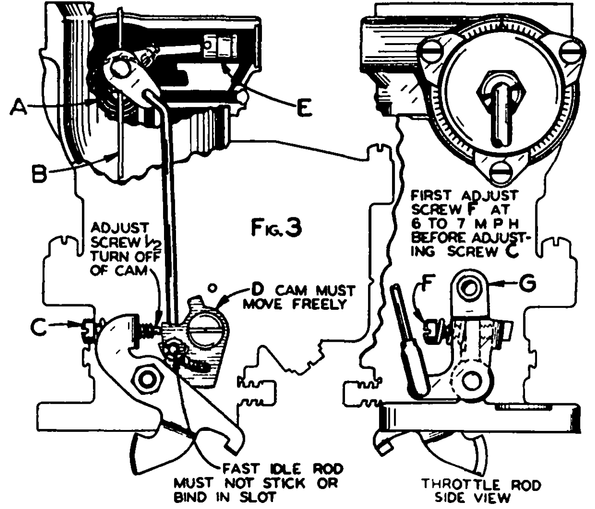

A
E
B
ADJUST SCREW ½ TURN OFF OF CAM
C
D CAM MUST MOVE FREELY
FAST IDLE ROD MUST NOT STICK OR BIND IN SLOT
FIRST ADJUST SCREW F AT 6 TO 7 M P H BEFORE ADJUSTING SCREW C
F
G
THROTTLE ROD SIDE VIEW

FIG.3

ADJUSTING IDLE SPEEDS (FIG. 3)

Have the engine warmed up to normal operating temperature. Turn out screw "C" so that there is at least 1/16″ clearance between the end of the screw and the cam, which permits the throttle lever "G" to come to rest against stop screw "F." At normal operating temperature, the stop screw "F" should be adjusted for a car speed of 6 to 7 miles per hour.

After making this adjustment, turn in the fast idle screw "C" so that it **just contacts** the lowest step of the cam **without any pressure being exerted on the screw or on the fast idle lever.** Next turn the screw out 1/2 turn which means that there should be just enough clearance between the end of the screw and the cam so that the cam can be moved without any drag caused by the screw "C". NOTE **It is important that all parts of the fast idle mechanism move freely without any type of lubrication.**

CHECKING FAST IDLE ADJUSTMENT (FIG. 4)

To check the fast idle setting of the carburetor, it is necessary to adjust the idle screws as given in the foregoing paragraph With the choke valve in wide open position, hold the throttle lever "G" in closed position against stop screw "F", (as indicated in FIG. 3). Move the choke valve as far as possible towards the closed position, which means that step "S" of the cam will contact the fast idle screw. In this position, the opening that remains between the choke valve and the air horn should be equivalent to a 35/64" drill. If this amount of opening is not obtained, it is only necessary to slightly bend the fast idle rod "H" at the point indicated in FIG 4. Care should be taken so as not to cause a bind in the fast idle mechanism

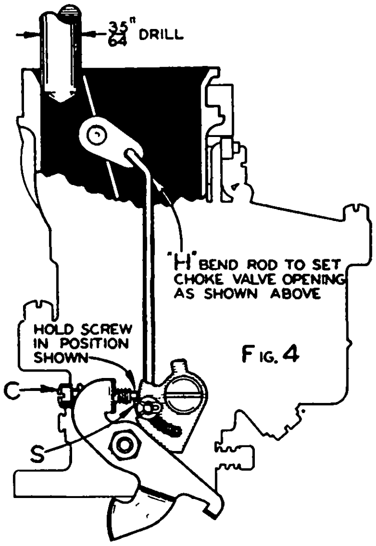

35/64" DRILL
"H" BEND ROD TO SET CHOKE VALVE OPENING AS SHOWN ABOVE
HOLD SCREW IN POSITION SHOWN
C
S

FIG. 4

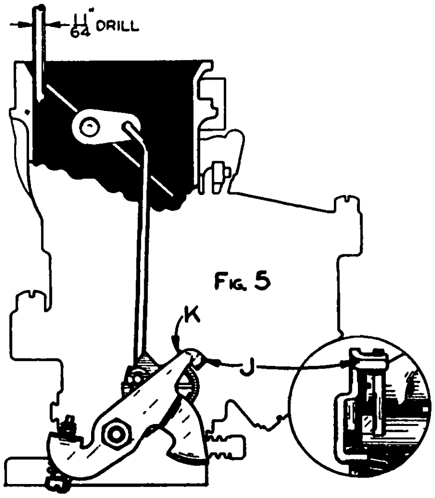


FIG. 5

CHOKE RELEASE (FIG. 5)

If for any reason the engine should become flooded, the choke valve can be partially opened by depressing the accelerator pedal to the full extent of its travel. This results in ear "J" of the fast idle lever making contact with the ear "K" of the fast idle cam, rotating it, and forcing the choke valve partially open.

With the throttle in the wide open position, the opening of the choke valve should be between .156" and .187" To measure this, **open the throttle wide from the THROTTLE LEVER SIDE, NOT FROM THE FAST IDLE LEVER SIDE.** Then place an 11/64" drill between the valve and the air horn. If it is necessary to readjust this, it can be done by bending ear "J" to give the desired amount of choke valve opening.

SERVICING THE AUTOMATIC CHOKE CONTROL

The automatic choke control is properly set at the factory. Under ordinary circumstances it will give many miles of satisfactory service In the operation of the automatic choke control, the one point that must be borne in mind at all times is that all parts of the unit must move freely and not stick or bind in any position of travel.

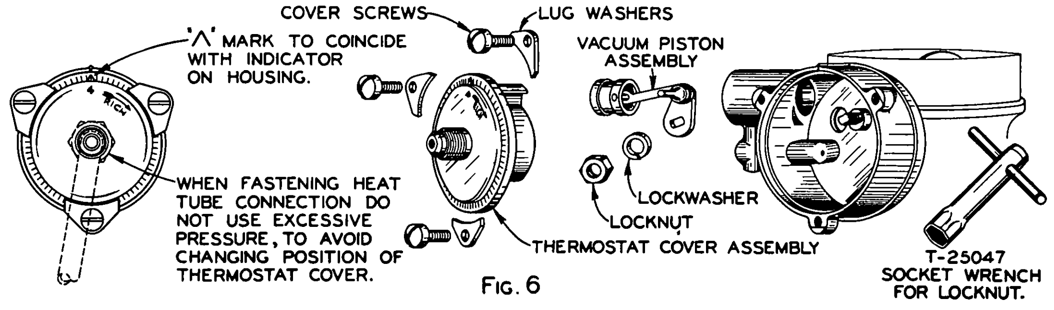

COVER SCREWS
LUG WASHERS
'Λ' MARK TO COINCIDE WITH INDICATOR ON HOUSING.
VACUUM PISTON ASSEMBLY
RICH
WHEN FASTENING HEAT TUBE CONNECTION DO NOT USE EXCESSIVE PRESSURE, TO AVOID CHANGING POSITION OF THERMOSTAT COVER.
LOCKWASHER
LOCKNUT
THERMOSTAT COVER ASSEMBLY
T-25047 SOCKET WRENCH FOR LOCKNUT.

FIG. 6

DISASSEMBLY AND ASSEMBLY

TO DISASSEMBLE:—

1. Disconnect the heat tube from the thermostat housing
2. Remove carburetor from manifold
3. Remove thermostat cover screws and lug washers. Thermostat cover assembly can then be taken off the choke housing
4. Remove lock nut with **Tool T-25047.** Remove lock washer.
5. Loosen housing attaching screws slightly, which will make it easier to remove vacuum piston assembly from housing
6. With a clean rag saturated with Acetone or alcohol, thoroughly clean the cylinder walls of any dirt or foreign material which may have accumulated in regular service. Use compressed air to blow out all of the channels. The surface of the piston should also be thoroughly cleaned Do not use any abrasive materials for cleaning piston or cylinder.

TO ASSEMBLE:—

1. Place vacuum piston in cylinder **Do not use any type of lubricant on piston or in cylinder.** Assemble lever onto choke stem. Tighten housing attaching screws securely.
2. Assemble lockwasher and lock nut. Use **Tool T-25047** to fasten lock nut securely.
3. Check to see that the choke valve can drop open freely without the slightest lag.

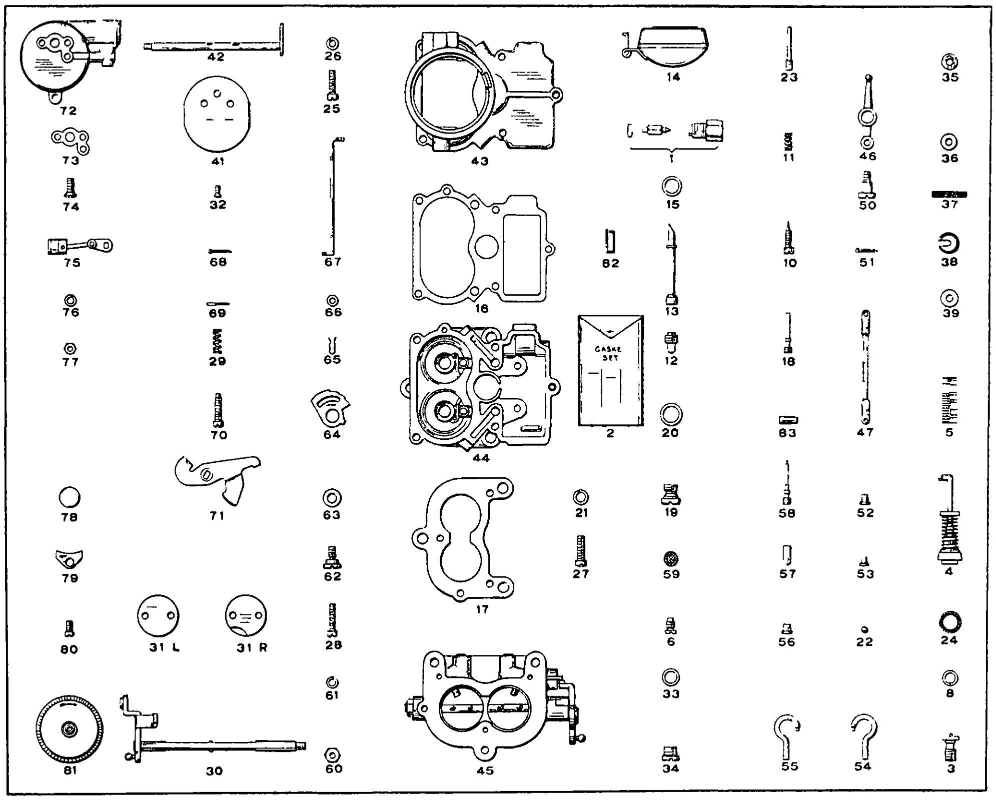
THERMOSTAT ASSEMBLY AND SETTING

The thermostat is calibrated and properly set at the factory to give satisfactory performance with the regular blends of gasoline. When placing the thermostat cover on the housing, locate the hook of the thermostat at the bottom and then rotate cover in "RICH" direction until the "Λ" mark coincides with the projection on the housing. This procedure is recommended to make certain that the thermostat hook contacts the pin on the choke lever. Place lugs in position and fasten cover screws evenly and securely.

NOTE: A No. 4 is stamped on thermostat cover for identification.

When assembling heat tube connection onto thermostat cover, do not use excessive pressure, otherwise position of the cover will be changed.

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No	Part No	Part Name	
	1	**P-23509**	Float Needle Valve and Seat 101	**(NOT VAR)**
	2	**J-5410-G**	Complete Gasket Set	
	3	**P-20752**	Power By Pass Jet No 60	**(NOT VAR)**
	4	**P-24716**	Assy —Pump Piston Link and Spring (Complete)	
	5	**P-19458**	Spring—Pump Duration	
	6	**P-18144**	Pump Inlet Check Valve	
	8	**P-19448**	Gasket—By Pass Jet	
	10	**P-15478**	Idle Needle Valve	
	11	**P-15481**	Spring—Idle Needle Valve	
	12	**P-19442**	Metering Jet **047′**	**(VAR)**
	13	**P-23346**	Main Disch Jet **No 32**	**(NOT VAR)**
	14	**P-22081**	Float and Lever	
	15	**P-10666**	Gasket—Float Needle Valve Seat	
	16	**P-24032**	Gasket—Air Horn	
	17	**P-24013**	Gasket—Main Body	
	18	**P-23663**	Idle Tube	
	19	**P-22019**	Plug—Main Disch Jet	
	20	**P-2886**	Gasket—Main Disch Jet Plug	
	21	**P-3157**	Lockwasher—Main Body Attach Screw	
	22	**P-18772**	Lead Ball	
	23	**P-18125**	Screw—Float Lever Fulcrum	
	24	**P-16960**	Spring—Pump Piston Leather Expansion	
	25	**P-3199**	Screw—Air Horn Attaching	
	26	**P-1791**	Lockwasher—Air Horn Attach Screw	
	27	**P-709**	Screw—Main Body Attaching	
	28	**P-15456**	Screw—Idle Adj	
	29	**P-15831**	Spring—Idle Adj Screw and Fast Idle Adj Screw	
	30	**P-24019**	Throttle Lever and Stem	
	31 R	**P-23357**	Throttle Valve (5°) Right	**(NOT VAR)**
	31 L	**P-23347**	Throttle Valve (5°) Left	**(NOT VAR)**
	32	**P-4522**	Screw—Throttle Valve Att and Choke Valve Att	
	33	**P-7338**	Gasket—Check Valve Plug	
	34	**P-19716**	Plug—Check Valve Plug	
	35	**P-17380**	Felt Washer—Pump Link	
	36	**P-17060**	Washer—Pump Link—Splash	
	37	**P-17753**	Spring—Packing Retainer	
	38	**P-22045**	Washer—Cup	
	39	**P-22046**	Washer—Spring Retainer	
	41	**P-24024**	Choke Valve	
	42	**P-24025**	Choke Stem and Lever	
	*43	**P-24782**	Assy —Air Horn	
	*44	**P-24011**	Assy —Main Body **1-1/32** Venturi (complete with **No 65** H S B **No 65** Idle Air Bleed and Pump Disch Tubes	**(VAR)**
	*45	**P-24781**	Throttle Body **No 54-58** Idle Disch Holes **No 38** Idle Air Bleed	**(VAR)**
	46	**P-19533**	Pump Lever	
	47	**P-19420**	Pump Rod	
	50	**P-20611**	Screw—Pump Lever Fulcrum	
	51	**P-7170**	Cotter Pin—Pump Rod	
	52	**P-15459**	Plug—Vacuum Spark Control	
	53	**P-15458**	Plug—Idle Disch Holes No 10	
	*54	**P-23808**	Tube—Pump Disch —Right No 65	**(NOT VAR)**
	*55	**P-23809**	Tube—Pump Disch —Left No 65	**(NOT VAR)**
	56	**P-20454**	Plug—Idle Disch Drilling	
	57	**P-22764**	High Speed Bleeder No 65	**(NOT VAR)**
	58	**P-23649**	Idle Air Bleed Tube	
	59	**P-23849**	Strainer—Pump Inlet Check Valve	
	60	**P-2290**	Nut—Fast Idle Lever	
	61	**P-1791**	Lockwasher—Fast Idle Lever Nut	
	62	**P-24017**	Screw—Fulcrum	
	63	**P-21032**	Washer—Fulcrum Screw	
	64	**P-24016**	Fast Idle Cam	
	65	**P-19374**	Cotter Pin—Fast Idle Rod Cam	
	66	**P-23203**	Washer—Fast Idle Cam	
	67	**P-24018**	Fast Idle Rod	
	68	**112-S-1**	Cotter Pin—Fast Idle Rod Choke Lever	
	*69	**P-24171**	Pin—Fast Idle Cam Stop	
	70	**P-23277**	Screw—Fast Idle Adj	
	71	**P-24021**	Fast Idle Lever	
	72	**P-24027**	Auto Choke Housing	
	73	**P-23297**	Gasket—Auto Choke Housing	
	74	**P-23918**	Screw—Choke Housing Attaching	
	75	**P-24029**	Vac Piston Link and Lever	
	76	**P-15875**	Lockwasher—Piston and Link Attach Nut	
	77	**P-16571**	Nut—Piston and Link Attaching	
	78	**P-23694**	Plug—Air Horn Vent	
	79	**P-23932**	Washer—Therm Cover Attach Screw	
	80	**P-2866**	Screw—Therm Cover Attaching	
	81	**P-24033**	Thermostat Cover and Thermostat	
	82	**P-21977**	Clip—Float Needle	
	83	**P-19430**	Wedge—Pump Discharge Tube	

*Indicates New Part

BENDIX PRODUCTS DIVISION

SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

STROMBERG "EE-23" CARBURETOR

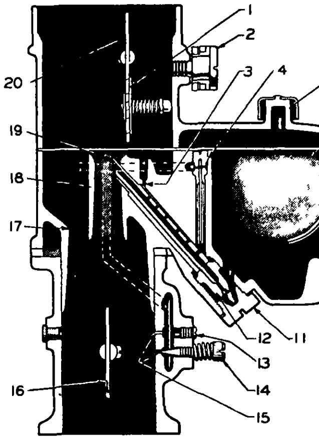
STROMBERG NO. A-19002 (CODE NO. 10-34A) PACKARD SYMBOL 335644

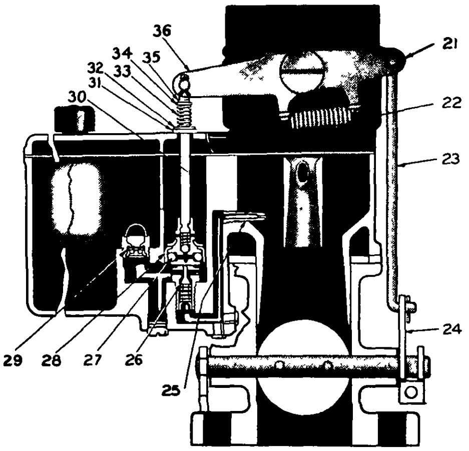
SIZE: 1¼" DUAL D. D. 3-HOLE FLANGE

1939 PACKARD

MODEL
1703-4-5
3-3/16"x5"—8 cyl.

PARTS ILLUSTRATED





1. Poppet Valve
2. Fulcrum Screw
3. High Speed Bleed
4. Idle Tube
5. Float Chamber Vent
6. Float
7. Float Needle Valve
8. Float Needle Valve Seat
9. Gasoline Inlet
10. Float Fulcrum Pin
11. Main Discharge Jet Plug
12. Main Metering Jet
13. Idle Discharge Plug
14. Idle Needle Valve
15. Idle Discharge Holes
16. Throttle Valve
17. Primary Venturi
18. Auxiliary Venturi
19. Main Discharge Jet
20. Choke Valve
21. Pump Lever Arm
22. Pump Arm Connecting Spring
23. Pump Rod
24. Pump Lever
25. Pump Discharge Nozzle
26. Power By-Pass Jet
27. Pump Piston Spring
28. Pump Piston
29. Check Valve
30. Pump Piston Link
31. Felt Washer
32. Splash Washer
33. Spring
34. Retainer Washer
35. Cotter Pin
36. Pump Piston Arm

Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **5/8"** below top surface of float chamber (without gasket) at 3 lbs. pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level).

MAIN METERING SYSTEM—Venturi **1-3/32"**; Main Discharge Jet **No. 28-36** P-19364 **(Tool T-24967)**; High Speed Bleeder **No. 65** in body. Main Metering Jet **.051"** P-17004 **(Tool T-23844)**; Use **Tool T-19099** Screw Driver for removing main jet plug. Main metering system controls the flow of fuel up to approximately 65 to 70 M. P. H.

POWER SYSTEM—Combination Power and Pump By-Pass Jet **No. 64** P-20823. The Power Jet is brought into action at approximately 65 to 70 M. P. H. Pump piston to rest on seat of by-pass jet (less over-travel) with throttle valve opened **9/32" + — 1/64"** drill (maximum pump setting) (measure with shank end of **9/32"** drill); bend pump rod to obtain correct setting.

ACCELERATION—Pump Discharge Nozzles **No. 60** in main body; Pump capacity **12** to **16** c.c. per 10 fast strokes, and **14** to **18** c.c. per 10 slow strokes with pump rod link set in minimum setting. Use **Tool T-24972.** Pump action takes place during acceleration period only. Pump to be set in minimum adjustment.

IDLE SYSTEM—Idle Discharge holes **Nos. 56-60.** With throttle valve fully closed and **No. 60** drill in idle hole, edge of valve is located **.020" + — .004"** from **No. 60** drill; Idle Air Bleed **No. 42** P-15477; Idle Tube **No. 70** P-17007. **Adjustment:** Adjust to smooth running, one barrel at a time, OUT to make richer and IN to make leaner; throttle at 7 to 8 M. P. H.

VACUUM SPARK CONTROL—With throttle fully closed and **No. 56** drill in spark hole, edge of valve is located **.015"** from **No. 56** drill.

FLANGE GASKET—P-22393.

SPECIAL TOOLS REQUIRED—Use Packard complete Tool Kit **SER. 376;** T-24733 Float Adjuster Wrench; T-24967 Main Discharge Jet Remover; T-23844 Main Metering Jet Wrench; T-24970 By-Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burette Gauge; T-24968 Handle; T-19099 Main Jet Plug Screw Driver; T-23785 Check Valve Socket Wrench.

MOTOR TUNE-UP DATA

SPARK PLUG—**.028" to .030"—1937.**
.025" to .030"—1938.
Clean and adjust at regular intervals.

DISTRIBUTOR—**.0125"—1937.**
.017"—1938.
Breaker gap set (as above).
Replace if necessary.

VALVES—**Intake: .006".**
Exhaust: .008". **Engine hot.**

IGNITION TIMING—Breaker contacts to open for No. 1 cylinder at 6 to 8 degrees or graduations on vibration damper before top dead center. This position is when the 6th to 8th graduation ahead of "UDC1" aligns with pointer on left front face of chain case cover.

SERVICE RECOMMENDATION — Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

GENERAL DESCRIPTION AND ADJUSTMENTS OF AUTOMATIC CHOKE CONTROL AND FAST IDLE MECHANISM

In the Stromberg Model EE 23 carburetor, the automatic choke control with the exception of the thermostat unit "R" is built into the throttle valve body. The thermostat is attached to the manifold riser where it can absorb heat from the exhaust gasses which govern its tension The design of the automatic choke control in the EE 23 carburetor does not require the choke control be "locked" in closed position while cranking the engine.

The purpose of the fast idle mechanism is to prevent the throttle valve from closing tightly while cranking the engine and also from stalling during the warming up period Figures 1 to 4 show the automatic choke control and fast idle mechanism in the various stages of operation

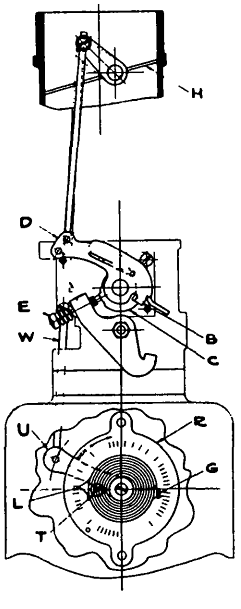


FIG. 1

CHOKE CLOSED — FAST IDLE

To make a start it is necessary to OPEN THROTTLE TO 20 MILE HOUR SPEED With this movement adjustment screw ' E" is lifted away from the fast idle cam "C" and allows choke valve "H ' to close With the raising of lever "D", ear "B", which is a part of the lever rotates fast idle cam ' C" so that adjustment screw "E" comes to rest on the extreme fast idle position of cam "C" During the cranking of the engine the carburetor and choke control remain in the closed position as shown in Fig 1

ADJUSTING THERMOSTAT

To adjust the thermostat it is necessary to remove the complete unit ' R" from the manifold and proceed as follows

1 Allow the thermostat to cool or warm until it has reached the temperature of 70°.

2 After it has reached this temperature, unhook the thermostat from the prong "G", revolve indicator point L to the zero marking of the thermostat plate In this position the hook of the thermostat should come flush with the prong "G" of the indicator

3 Thermostat pointer should then be revolved to the prick punch marking which is eleven graduations rich and is the original setting made at the factory
If the thermostat hook does not come against prong "G" when the pointer "L" is at the zero marking it will be necessary to recalibrate the thermostat as follows

4 With lever "U ' held against screw "T , revolve pointer so that the hook of th thermostat comes flush with prong "G"
This will then place pointer "L" at a different position and will be the new zero location This should be stamped on the plate and the old marking obliterated

5 From this point, hook the spring onto prong "G" and revolve pointer "L" eleven notches rich and lock in position

6 Reinstall thermostat unit R′ in manifold and with choke valve ' H" in closed position, attach rod "W to lever "U", holding lever against screw ' T '

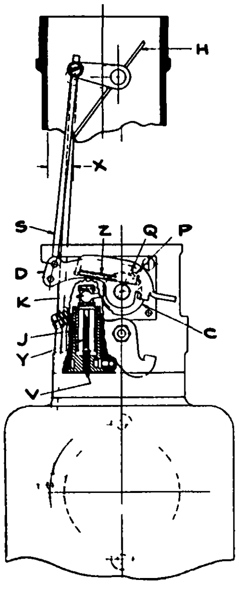


FIG. 2

CHOKE PARTIALLY OPEN — ENGINE WARM — INTERMEDIATE IDLE

As soon as the engine begins to fire and a manifold vacuum is created, vacuum piston J is pulled down Ear P" of loose arm "K" comes in contact with dowel pin ' Q to rotate shaft and assembly in counter-clockwise direction, lever "D" being on the same shaft as pin Q' rotates with it and pulls down connecting rod "S", forcing choke valve H to open a predetermined amount

Fast idle cam "C" is then rotated by spring "Z" allowing adjustment screw "E" to gradually close the throttle valve until it reaches the slow idle position The choke valve in the carburetor being off center continues to open by the inrushing air, which works against the tension of the thermostat until the thermostat absorbs enough heat so that it will not offer any resistance and choke valve "H" drops to the position as shown in Fig No 4 with a hot engine If for any reason it is necessary to replace piston sleeve or pin "Y", the pin should be adjusted so that a **5/16"** drill can be placed between the choke valve and body shown as "X", with piston "J" in the down position After pin is adjusted, lead ball "V" should be used to lock pin in position

ENGINE FLOODED — THROTTLE OPEN

Should the engine become flooded for any reason, the choke valve "H" can be manually opened by kicking the throttle pedal wide open This action rotates throttle lever "A" in anti-clockwise direction to bring it in contact with ear "N" of lever "D", which pulls down connecting rod "S" and opens choke valve "H" The engine then may be cranked for a few times to clean out the manifold

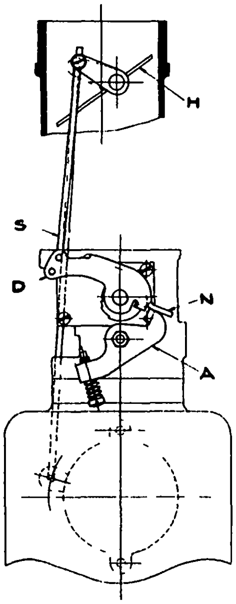


FIG. 3

CHOKE OPEN — SLOW IDLE — ENGINE HOT OR COLD

Figure 4 shows the choke valve "H" in wide open position which it will be when a hot motor is stopped and the throttle valve is allowed to close In this illustration, adjustment screw "E" is shown at slow or curb idle which should be set at 7 miles per hour with the engine warm As the engine becomes cold the thermostat also cools to gradually gain tension and tend to close the carburetor choke valve It is prevented from doing so by the fast idle adjustment screw "E" coming in contact with the notch on the fast idle cam "C"

FAST IDLE ADJUSTMENT

With fast idle screw in contact with second step of cam, choke valve to be open from a **N . 1** drill to **15/64"** drill Adjust with set screw on choke lever

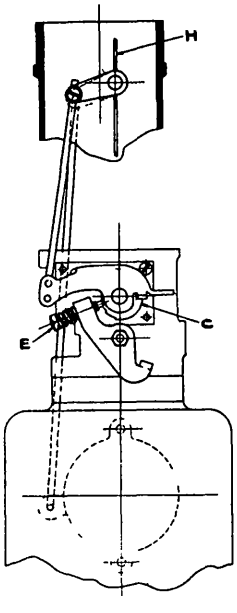
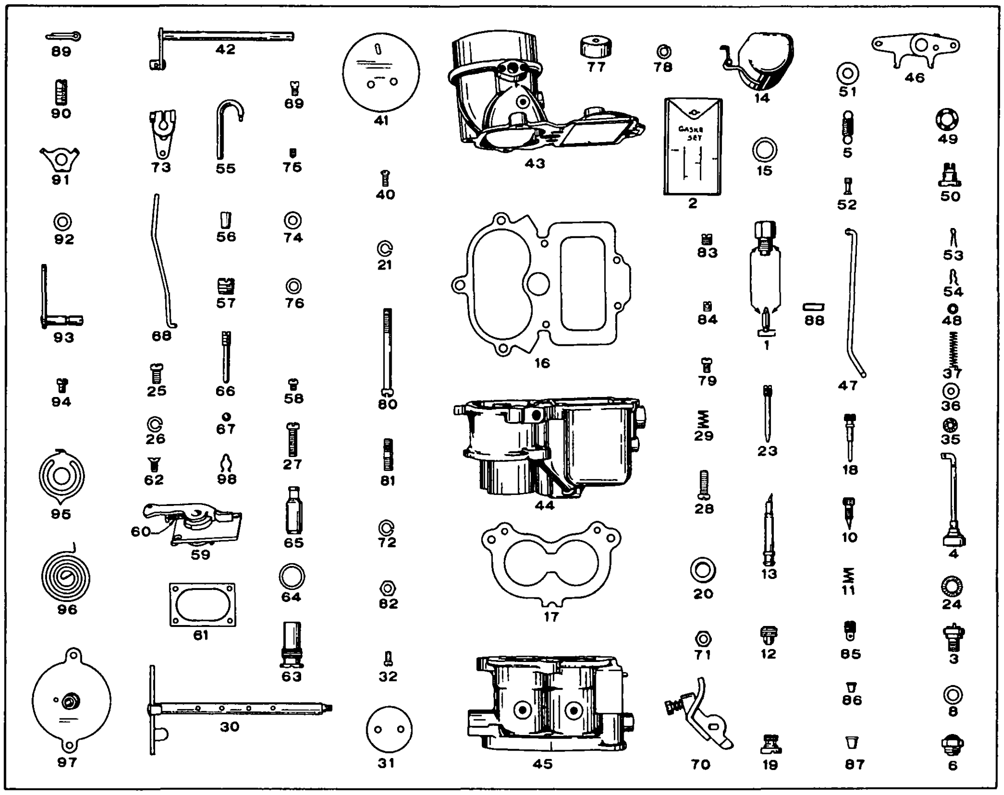


FIG. 4



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No.	Part No.	Part Name
	1	P 22091	Float Needle Valve Clip & Seat 130 (NOT VAR)
	2	J 4385 G	Complete Gasket Set
	3	P 20823	Power By Pass Jet No 64 (NOT VAR)
	4	P 18388	Pump Piston and Link (Includes P 16960)
	5	P 17042	Spring—Pump Duration
	6	P 16990	Pump Inlet Check Valve
	8	P 6855	Gasket—By Pass Jet
	10	P 15478	Idle Needle Valve
	11	P 15481	Spring—Idle Needle Valve
	12	P 17004	Metering Jet 051 ' (VAR)
	13	P 19364	Main Discharge Jet No 28 36 (NOT VAR)
	14	P 22088	Float with Lever
	15	P 10666	Gasket—Float Needle Valve Seat
	16	P 17923	Gasket—Air Horn
	17	P 16941	Gasket—Main Body
	18	P 17007	Idle Tube No 70 (NOT VAR)
	19	P 18130	Plug—Main Discharge Jet
	20	P 60308	Gasket—Main Discharge Jet
	21	P 3157	Lockwasher—Main Body Attach Screw
	23	P 17939	Screw—Fulcrum Float Lever
	24	P 16960	Spring—Pump Piston Leather Expansion
	25	P 46	Screw—Air Horn Attaching
	26	P 6668	Lockwasher—Air Horn Attaching Screw
	27	P 15554	Screw—Main Body Attaching
	28	P 15456	Screw—Throttle Stop
	29	P 15831	Spring—Throttle Stop Screw
	30	P 22533	Throttle Lever and Stem
	31	P 17018	Throttle Valve (5°) (NOT VAR)
	32	P 16716	Screw—Throttle Valve Attach
	35	P 17380	Washer—Felt
	36	P 17060	Washer—Splash—Pump Link
	37	P 17753	Spring—Felt Retainer
	40	P 4522	Screw—Choke Valve Attaching
	41	P 19345	Choke Valve
	42	P 19766	Choke Stem and Lever
	43	P 20465	Air Horn
	43 A	P 20463	Air Horn and Valve (Complete)
	44	P 20292	Main Body **1 3/32** Venturi **No 65** H S Bleeder **No 60** Pump Discharge Tube (VAR)
	45	P 19342	Throttle Body **No 56 60** Idle Discharge Hole **No 56** Spark Hole (VAR)
		P 18970	Automatic Choke Unit Guide
	46	P 16976	Pump Lever
	47	P 22528	Pump Rod
	48	P 9394	Washer—Pump Rod
	49	P 17133	Washer—Pump Lever Fulcrum Screw Spring
	50	P 16973	Screw—Pump Lever Fulcrum
	51	P 17009	Washer Pump Lever Fulcrum Screw
	52	P 17027	Screw—Pump Lever Fulcrum Screw Lock
	53	P 7170	Cotter Pin—Pump Rod
	54	P 19374	Cotter Pin—Pump Link
	55	P 20232	Pump Discharge Tube No 60 (NOT VAR)
	56	P 19430	Wedge—Pump Tube
	57	P 6406	Plug—Pump Channel 5/16 24
	58	P 6970	Screw—Pump Lever Stop
	59	P 19751	Automatic Choke Unit (Includ P 19104)
	60	P 19104	Spring—Auto Choke Unit Cam Return
	61	P 19124	Gasket—Auto Choke Unit
	62	P 19105	Screw—Auto Choke Unit Attaching
	63	P 19980	Vacuum Piston Sleeve
	64	P 19662	Gasket—Vacuum Piston Sleeve
	65	P 19987	Vacuum Piston
	66	P 19982	Pin—Vacuum Piston Adjusting
	67	P 19983	Lead Ball —Vacuum Piston Adj Screw—Plug
	68	P 19341	Rod—Fast Idle
	69	P 14159	Screw—Fast Idle Rod Set
	70	P 24095	Lever—Fast Idle Stop
		P 24094	Fast Idle Stop
		P 19103	Fast Idle Stop Adjusting Screw
		P 15831	Fast Idle Stop Adjusting Screw Spring
	71	P 2290	Nut—Fast Idle Stop Attach
	72	P 1791	Lockwasher—Fast Idle Stop Attach Nut
	73	P 20229	Lever—Choke Lever
		P 16955	Choke Lever
		P 18300	Choke Lever Clamp Screw
		P 18299	Choke Lever Clamp Screw Nut
	74	P 17081	Collar—Choke Stem
	75	P 16161	Set Screw—Choke Stem Collar
	76	P 16426	Washer—Choke Stem
	77	P 18716	Vent Cap
	78	P 12167	Lockwasher—Vent Cap Attaching Screw
	79	P 2369	Screw—Vac Piston Stop and Vent Cap Attach
	80	P 18111	Screw—Air Horn Attaching
	81	P 8012	Stud—Main Body Attaching
	82	P 17147	Nut—Main Body Attaching Stud
	83	P 6387	Plug—Idle Discharge Holes & Air Horn 10-32
	84	P 7098	Plug—Pump Channel No 8 32
	85	P 15477	Idle Air Bleeder **No 42** (VAR)
	86	P 15457	Plug—Idle Air Channel
	87	P 15459	Plug—Idle Discharge Drilling Noles
	88	P 17473	Clip—Float Needle Valve
	89	P 4	Cotter Pin—Fast Idle Rod & Ther Stem Washer
	90	P 17723	Screw—Thermostat Stop Adjusting
	91	P 19144	Stop—Thermostat Lever
	92	P 16426	Washer—Thermostat Stem
	93	P 20254	Thermostat Stem and Lever
	94	P 19114	Screw—Bracket Lock
	95	P 19113	Bracket—Thermostat
	96	P 22060	Thermostat
	97	P 21358	Thermostat Plate and Bushing
	98	P 21338	Cotter Pin—Thermostat Stem
		P 20231	Thermostat Unit Complete

NOTE—For parts marked (VAR) size must be specified when ordering

BENDIX PRODUCTS DIVISION
South Bend Of Bendix Aviation Corporation Indiana

Printed in U S A

STROMBERG "EE-16" CARBURETOR

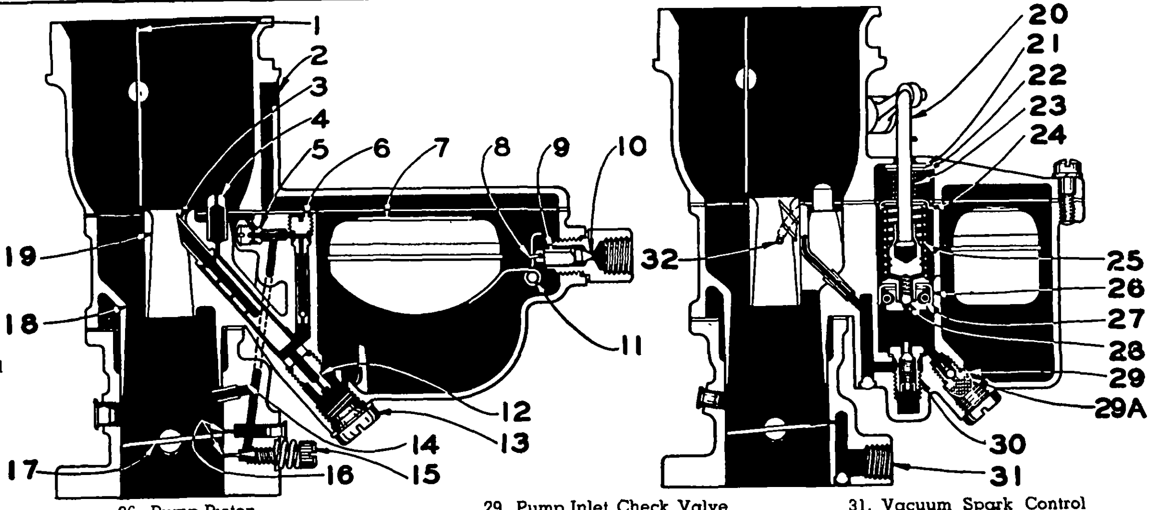
STROMBERG NO. A-18341 (CODE NO. 10-33) PACKARD SYMBOL 333749

SIZE: 1" DUAL D. D. 4-HOLE FLANGE

1939
PACKARD
MODEL
1701
3¼"x4¼"—8 cyl.

PARTS ILLUSTRATED

1. Choke Valve
2. Float Chamber Vent
3. Main Discharge Jet
4. High Speed Bleeder
5. Idle Air Bleeder
6. Idle Tube
7. Float
8. Float Needle Clip
9. Float Needle Valve
10. Float Needle Valve Seat
11. Float Fulcrum Pin
12. Main Metering Jet
13. Main Metering Jet Plug
14. Secondary Idle Air Bleed
15. Idle Needle Valve
16. Idle Discharge Holes
17. Throttle Valve
18. Primary Venturi
19. Secondary Venturi
20. Pump Piston Link
21. Dust Washer
22. Retainer Washer
23. Dust Washer Spring
24. Spring Retainer Washer
25. Pump Duration Spring



26. Pump Piston
27. Piston Expansion Spring
28. Pump Relief Valve
29. Pump Inlet Check Valve
29-A. Pump Inlet Strainer
30. Power By-Pass Jet
31. Vacuum Spark Control Connection
32. Pump Discharge Nozzle

Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **15/32"** below top surface of float chamber (without gasket) at 3 lbs. pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level).

MAIN METERING SYSTEM—Venturi **1-1/32"**; Main Discharge Jet **No. 32** P-23346 **(Tool T-24967)**; High Speed Bleeder **No. 65** P-22764. Main Metering Jet **.047"** P-19442 **(Tool T-24924)**; Use **Tool T-19099** Screw Driver for removing main jet plug. Main metering system controls the flow of fuel up to approximately 65 to 70 M. P. H.

POWER SYSTEM—Combination Power and Pump By-Pass Jet **No. 57** P-20854. The Power Jet is brought into action at approximately 65 to 70 M. P. H. Pump piston to rest on seat of by-pass jet (less over-travel) with throttle valve opened **5/16" + — 1/64"** drill (measure with shank end of **5/16"** drill); bend pump lever fulcrum arm at ball joint end to obtain correct setting.

ACCELERATION—Pump Discharge Nozzles **No. 65** in main body; Pump capacity **11** to **15** c.c. per 10 fast strokes, and **17** to **21** c.c. per 10 slow strokes. Use **Tool T-24972.** Pump action takes place during acceleration period only.

IDLE SYSTEM—Idle Discharge holes **Nos. 54-58.** With throttle valve fully closed and **No. 58** drill in idle hole, edge of valve is located **.030" + — .004"** from **No. 58** drill; Idle Air Bleed **No. 60** in main body P-23649, **No. 38** in throttle body; Idle Tube **No. 55** P-23646. Adjustment: Adjust to smooth running, one barrel at a time, OUT to make richer and IN to make leaner; throttle at 7 to 8 M. P. H.

VACUUM SPARK CONTROL—With throttle fully closed and **No. 50** drill in spark hole, edge of valve (counter bored part) is located **Flush + — .004"** from **No. 50** drill.

FLANGE GASKET—P-21990.

SPECIAL TOOLS REQUIRED—Use Packard complete Tool Kit **SER. 376;** T-24733 Float Adjuster Wrench; T-24967 Main Discharge Jet Remover; T-24924 Main Metering Jet Wrench; T-24970 By-Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burrette Gauge; T-24968 Handle; T-19099 Main Jet Plug Screw Driver.

MOTOR TUNE-UP DATA

SPARK PLUG—.026" to .030".
Clean and adjust at regular intervals.

DISTRIBUTOR—.015".
Breaker gap set .015".
Replace if necessary.

VALVES—Intake: .007".
Exhaust: .010". **Engine hot.**

IGNITION TIMING—With fuel compensator on distributor set at zero spark should occur in No. 1 cylinder 8° to 9½° before top dead center. Flywheel mark "UDC1" indicates top center.

SERVICE RECOMMENDATION — Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

AUTOMATIC CHOKE CONTROL

GENERAL DESCRIPTION

The Stromberg Model EE 16 carburetor has the automatic choke control built into a housing that is integral with the carburetor The principles used in the operation of the automatic choke control are the same as used on former Stromberg models i e manifold vacuum thermostat spring and an offset choke valve in the carburetor The vacuum piston and thermostat are incorporated in the choke control housing They are directly connected to the carburetor choke valve thereby accurately controlling the opening and closing of the choke valve under varying operating temperatures and at various throttle positions A tube leading from a stove on the exhaust manifold to the thermostat housing transmits heat to govern the tension of the thermostat spring A fast idle cam operating in conjunction with the automatic choke provides the proper throttle opening for a cold engine and thereby prevents the engine from stalling during the warming-up period

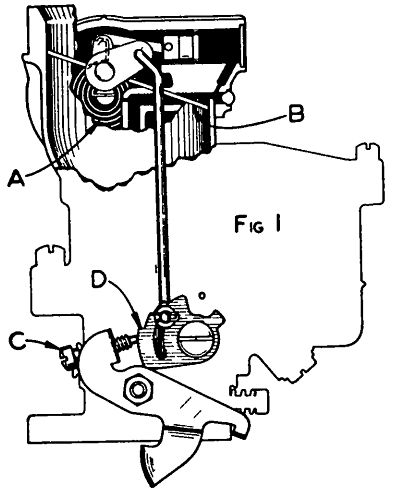


Fig I

OPERATION AND ADJUSTMENTS

CHOKE CLOSED — FAST IDLE — COLD ENGINE (See FIG. 1)

When the engine becomes cold the thermostat A also cools and gradually gains tension The thermostat is unable to close the choke valve until the throttle is opened **It is therefore necessary to depress the accelerator pedal slightly and then allow it to return to normal position before making a start** Opening the throttle in this manner permits the fast idle screw C to be moved away from the fast idle cam D This allows the choke valve to close in accordance with the thermostat tension The fast idle screw then comes to rest on a higher lobe of the fast idle cam providing the proper throttle opening for the prevailing engine temperature FIG 1 shows the position of the choke and fast idle mechanisms during the cranking period Choke valve B is held in closed position during this operation by the tension of the thermostat A

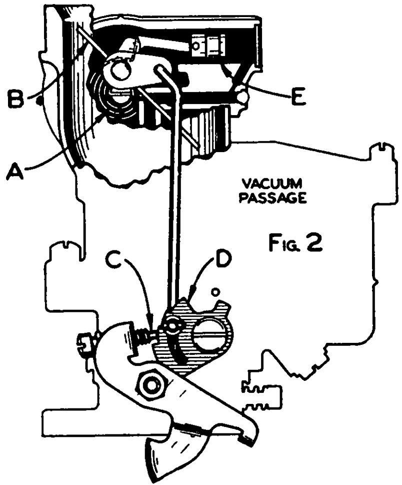


Fig. 2

CHOKE PARTIALLY OPEN — ENGINE FIRING — WARMING-UP PERIOD (FIG. 2)

When the engine begins to fire the manifold vacuum pulls vacuum piston E opening the choke valve B against the tension of the thermostat A Sufficient air is thereby admitted to give a satisfactory running mixture As the choke valve opening is increased, the fast idle cam D is allowed to revolve so that the fast idle screw C comes to rest on a lower step when the throttle is opened and then permitted to close

ENGINE WARM — CHOKE WIDE OPEN — SLOW IDLE (FIG. 3)

While the engine continues to run the amount that the choke valve is opened against the tension of the thermostatic spring A is governed by the quantity of the inrushing air past the off center choke valve and the travel of the vacuum piston E Heat is transmitted into the thermostat housing by hot air being drawn from the stove on the exhaust manifold The thermostat gradually absorbs sufficient heat until it does not offer any further resistance to the choke valve opening At the same time the fast idle cam D rotates until the screw C no longer contacts the cam

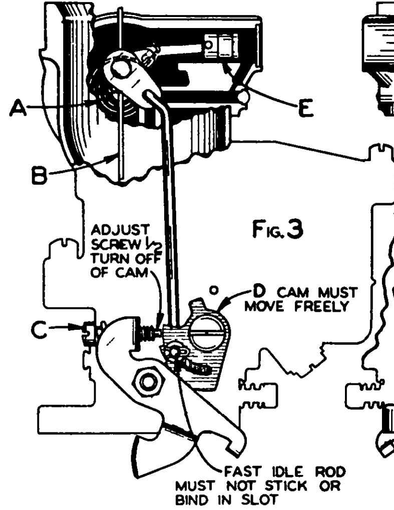
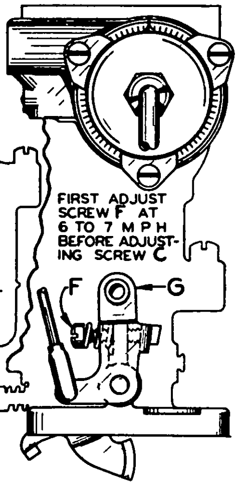

A
E
B
ADJUST SCREW ½ TURN OFF OF CAM
D CAM MUST MOVE FREELY
C
FAST IDLE ROD MUST NOT STICK OR BIND IN SLOT

Fig. 3


FIRST ADJUST SCREW F AT 6 TO 7 M P H BEFORE ADJUSTING SCREW C
F
G

THROTTLE ROD SIDE VIEW

ADJUSTING IDLE SPEEDS (FIG. 3)

Have the engine warmed up to normal operating temperature Turn out screw C so that there is at least 1/16" clearance between the end of the screw and the cam which permits the throttle lever G to come to rest against stop screw F At normal operating temperature the stop screw F should be adjusted for a car speed of 6 to 7 miles per hour

After making this adjustment, turn in the fast idle screw C so that it **just contacts** the lowest step of the cam **without any pressure being exerted on the screw or on the fast idle lever.** Next turn the screw out ½ turn which means that there should be just enough clearance between the end of the screw and the cam so that the cam can be moved without any drag caused by the screw C NOTE **It is important that all parts of the fast idle mechanism move freely without any type of lubrication.**

CHECKING FAST IDLE ADJUSTMENT (FIG. 4)

To check the fast idle setting of the carburetor, it is necessary to adjust the idle screws as given in the foregoing paragraph. With the choke valve in wide open position, hold the throttle lever "G" in closed position against stop screw "F", (as indicated in FIG. 3). Move the choke valve as far as possible towards the closed position, which means that step "S" of the cam will contact the fast idle screw. In this position, the opening that remains between the choke valve and the air horn should be equivalent to a **35/64"** drill. If this amount of opening is not obtained, it is only necessary to slightly bend the fast idle rod "H" at the point indicated in FIG. 4. Care should be taken so as not to cause a bind in the fast idle mechanism.

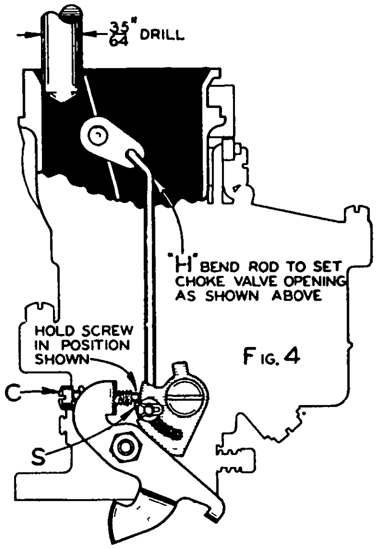

35/64" DRILL
"H" BEND ROD TO SET CHOKE VALVE OPENING AS SHOWN ABOVE
HOLD SCREW IN POSITION SHOWN
C
S

FIG. 4

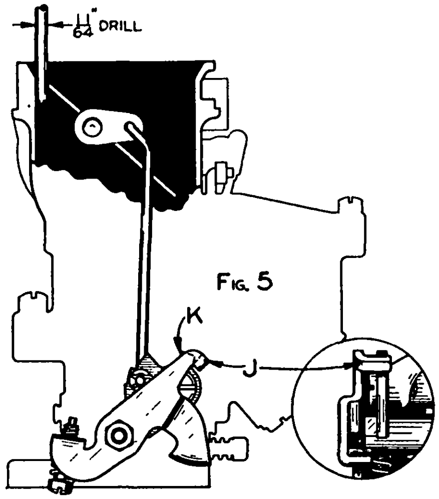


FIG. 5

CHOKE RELEASE (FIG. 5)

If for any reason the engine should become flooded, the choke valve can be partially opened by depressing the accelerator pedal to the full extent of its travel. This results in ear "J" of the fast idle lever making contact with the ear "K" of the fast idle cam, rotating it, and forcing the choke valve partially open.

With the throttle in the wide open position, the opening of the choke valve should be between **.156"** and **.187"**. To measure this, **open the throttle wide from the THROTTLE LEVER SIDE, NOT FROM THE FAST IDLE LEVER SIDE.** Then place an **11/64"** drill between the valve and the air horn. If it is necessary to readjust this, it can be done by bending ear "J" to give the desired amount of choke valve opening.

SERVICING THE AUTOMATIC CHOKE CONTROL

The automatic choke control is properly set at the factory. Under ordinary circumstances it will give many miles of satisfactory service. In the operation of the automatic choke control, the one point that must be borne in mind at all times is that all parts of the unit must move freely and not stick or bind in any position of travel.

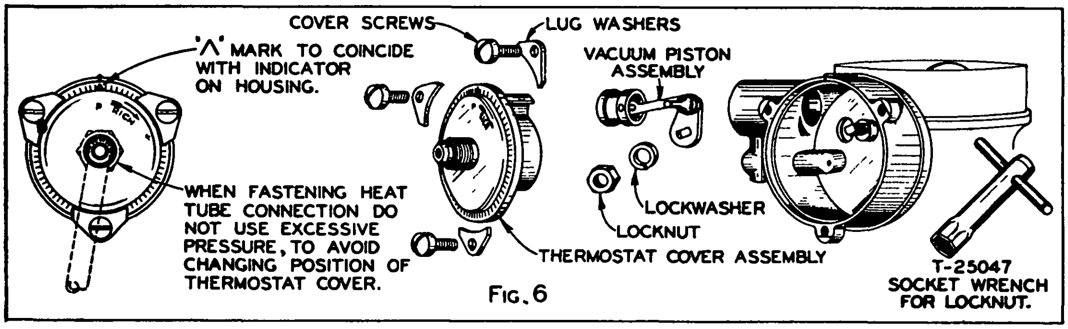

COVER SCREWS
LUG WASHERS
"A" MARK TO COINCIDE WITH INDICATOR ON HOUSING.
RICH
VACUUM PISTON ASSEMBLY
WHEN FASTENING HEAT TUBE CONNECTION DO NOT USE EXCESSIVE PRESSURE, TO AVOID CHANGING POSITION OF THERMOSTAT COVER.
LOCKWASHER
LOCKNUT
THERMOSTAT COVER ASSEMBLY
T-25047 SOCKET WRENCH FOR LOCKNUT.

FIG. 6

DISASSEMBLY AND ASSEMBLY

TO DISASSEMBLE:—

1. Disconnect the heat tube from the thermostat housing.
2. Remove carburetor from manifold.
3. Remove thermostat cover screws and lug washers. Thermostat cover assembly can then be taken off the choke housing.
4. Remove lock nut with **Tool T-25047.** Remove lock washer.
5. Loosen housing attaching screws slightly, which will make it easier to remove vacuum piston assembly from housing.
6. With a clean rag saturated with Acetone or alcohol, thoroughly clean the cylinder walls of any dirt or foreign material which may have accumulated in regular service. Use compressed air to blow out all of the channels. The surface of the piston should also be thoroughly cleaned. Do not use any abrasive materials for cleaning piston or cylinder.

TO ASSEMBLE:—

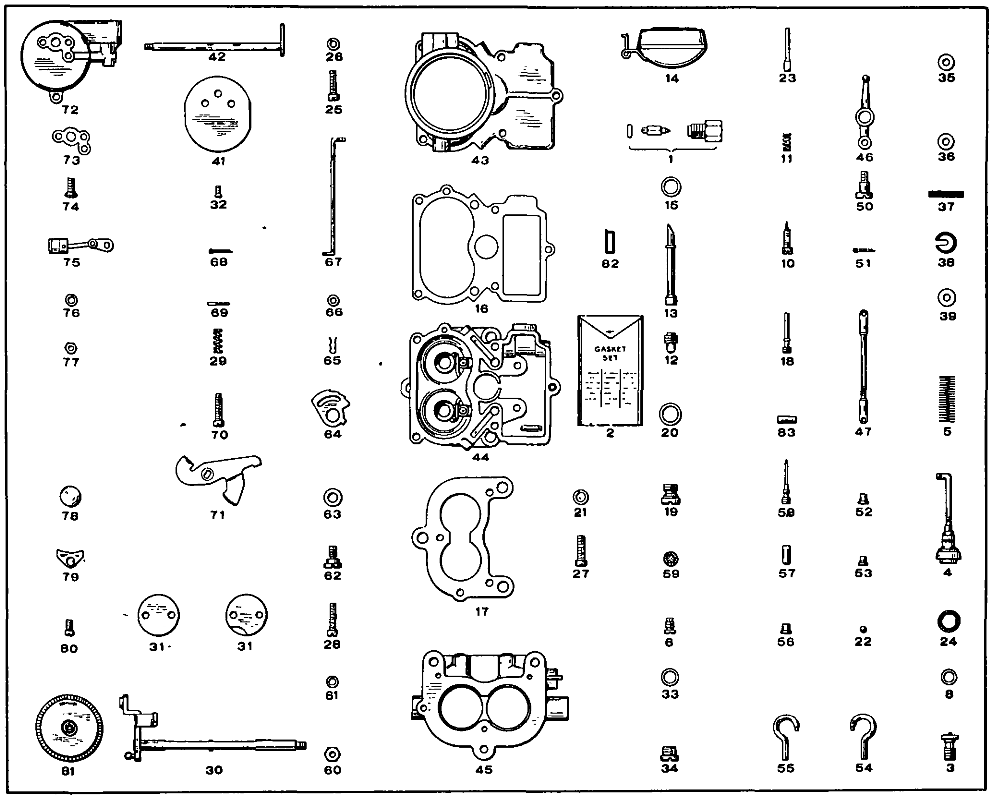
1. Place vacuum piston in cylinder. **Do not use any type of lubricant on piston or in cylinder.** Assemble lever onto choke stem. Tighten housing attaching screws securely.
2. Assemble lockwasher and lock nut. Use **Tool T-25047** to fasten lock nut securely.
3. Check to see that the choke valve can drop open freely without the slightest lag.

THERMOSTAT ASSEMBLY AND SETTING

The thermostat is calibrated and properly set at the factory to give satisfactory performance with the regular blends of gasoline. When placing the thermostat cover on the housing, locate the hook of the thermostat at the bottom and then rotate cover in "RICH" direction until the "**A**" mark coincides with the projection on the housing. This procedure is recommended to make certain thta the thermostat hook contacts the pin on the choke lever. Place lugs in position and fasten cover screws evenly and securely.

When assembling heat tube connection onto thermostat cover, do not use excessive pressure, otherwise position of the cover will be changed.

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No.	Part No.	Part Name
	1	**P-23509**	Float Needle Val., Clip & Seat .101" **(NOT VAR.)**
	2	**J-5410-G**	Complete Gasket Set
	3	**P-20854**	Power By-Pass Jet No. 57 **(NOT VAR.)**
	4	**P-20775**	Pump Piston and Link **(Includes P-16960)**
	4-A	**P-20879**	Pump Piston, Link and Spring (Complete)
	5	**P-19458**	Spring—Pump Duration
	6	**P-18144**	Pump Inlet Check Valve
	8	**P-19448**	Gasket—By-Pass Jet
	10	**P-15478**	Idle Needle Valve
	11	**P-15481**	Spring—Idle Needle Valve
	12	**P-19442**	Metering Jet—**.047"** **(VAR.)**
	13	**P-23346**	Main Discharge Jet No. 32 **(NOT VAR.)**
	14	**P-22081**	Float and Lever
	15	**P-10666**	Gasket—Float Needle Valve Seat
	16	**P-24032**	Gasket—Air Horn
	17	**P-24013**	Gasket—Main Body
	18	**P-23646**	Idle Tube
	19	**P-22019**	Plug—Main Discharge Jet
	20	**P-2886**	Gasket—Main Discharge Jet Plug
	21	**P-3157**	Lockwasher—Main Body Attaching Screw
	22	**P-18772**	Lead Ball
	23	**P-18125**	Screw—Float Lever Fulcrum
	24	**P-16960**	Spring—Pump Piston Leather Expansion
	25	**P-3199**	Screw—Air Horn Attaching
	26	**P-1791**	Lockwasher—Air Horn Attaching Screw
	27	**P-709**	Screw—Main Body Attaching
	28	**P-15456**	Screw—Throttle Stop
	29	**P-15831**	Spring—Throt. Stop Scr. & Fast Idle Adjust. Scr.
	30	**P-24019**	Throttle Lever and Stem
		P-19509	Ball—Connector
	31-R	**P-23357**	Throttle Valve (5°) Right **(NOT VAR.)**
	31-L	**P-23347**	Throttle Valve (5°) Left **(NOT VAR.)**
	32	**P-4522**	Screw—Throttle Valve Attaching. and Choke Valve Attaching.
	33	**P-7338**	Gasket—Check Valve Plug
	34	**P-19716**	Plug—Check Valve
	35	**P-17380**	Felt Washer—Pump Link
	36	**P-17060**	Washer—Pump Link—Splash
	37	**P-17753**	Spring—Felt Retainer
	38	**P-22045**	Washer—Cup
	39	**P-22046**	Washer—Spring Retainer
	41	**P-24024**	Choke Valve

NOTE—F r parts marked (VAR.) size must be specified when ordering.

Bin Location	Key No.	Part No.	Part Name
	42	**P-24025**	Choke Stem and Lever
	43	**P-24023-T**	Air Horn
	43-A	**P-24022**	Assy.—Air Horn, Valve and Choke Housing
	44	**P-24011**	Main Body 1-1/32" Venturi (Complete with **No. 65** H. S. Bleeder & **No. 65** Pump Disch. Tubes **(VAR.)**
	45	**P-24014**	Assy. Throttle Body **No. 54-58** Idle Disch. Holes **No. 38** Idle Channel Vent **No. 50** Spark Hole **(VAR.)**
		P-23658	Idle Channel Vent No. 38 **(NOT VAR.)**
	46	**P-19533**	Pump Lever
	47	**P-19420**	Pump Rod
	50	**P-20611**	Screw—Pump Lever Fulcrum
	51	**P-7170**	Cotter Pin—Pump Rod
	52	**P-15459**	Plug—Vacuum Spark Control
	53	**P-15458**	Plug—Idle Discharge Holes No. 10
	54	**P-23808**	Tube—Pump Disch. (Right) No. 65 **(NOT VAR.)**
	55	**P-23809**	Tube—Pump Disch. (Left) No. 65 **(NOT VAR.)**
	56	**P-20454**	Plug—Idle Discharge Drilling Hole
	57	**P-22764**	High Speed Bleeder No. 65 **(NOT VAR.)**
	58	**P-23649**	Idle Air Bleed Tube No. 60 **(NOT VAR.)**
	59	**P-23849**	Strainer—Pump Inlet Check Valve
	60	**P-2290**	Nut—Fast Idle Lever
	61	**P-1791**	Lockwasher—Fast Idle Lever Nut
	62	**P-24017**	Screw—Fulcrum—Fast Idle Cam
	63	**P-21032**	Washer—Fulcrum Screw
	64	**P-24016**	Fast Idle Cam
	65	**P-19374**	Cotter Pin—Fast Idle Rod (Cam)
	66	**P-23203**	Washer—Fast Idle Cam
	67	**P-24018**	Fast Idle Rod
	68	**112-S-1**	Cotter Pin—Fast Idle Rod (Choke Lever)
	69	**P-24171**	Pin—Fast Idle Cam Stop (Throttle Body)
	70	**P-23277**	Screw—Fast Idle Adjusting
	71	**P-24021**	Fast Idle Lever
	72	**P-24027**	Automatic Choke Housing
	73	**P-23297**	Gasket—Automatic Choke Housing
	74	**P-23918**	Screw—Choke Housing Attaching
	75	**P-24029**	Vacuum Piston, Link and Lever
	76	**P-15875**	Lockwasher—Piston and Link Attaching Nut
	77	**P-16571**	Nut—Piston and Link Attaching
	78	**P-23694**	Plug—Air Horn Vent
	79	**P-23932**	Washer—Thermostat Cover Attaching Screw
	80	**P-2866**	Screw—Thermostat Cover Attaching
	81	**P-24033**	Thermostat Cover and Thermostat
	82	**P-21977**	Clip—Float Needle
	83	**P-19430**	Wedge—Pump Discharge Tube

BENDIX PRODUCTS DIVISION
SOUTH BEND **OF BENDIX AVIATION CORPORATION** **INDIANA**

STROMBERG "EE-14" CARBURETOR

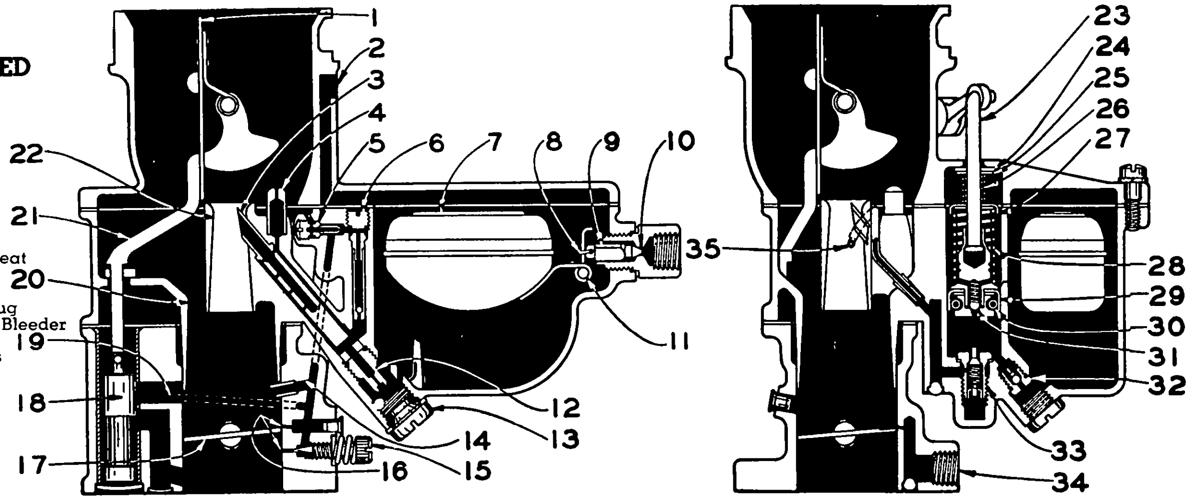
STROMBERG NO. A-18161 (CODE NO. 10-30B) PACKARD SYMBOL 330143

SIZE: 1" DUAL D. D. 4-HOLE FLANGE **REPLACE WITH EE-16 EQUIP. J-5413**

1938
PACKARD
MODEL
1601
3¼"x4¼"—8 cyl.

PARTS ILLUSTRATED

1 Choke Valve
2 Float Chamber Vent
3 Main Discharge Jet
4 High Speed Bleeder
5 Idle Air Bleeder
6 Idle Tube
7 Float
8 Float Needle Clip
9 Float Needle Valve
10 Float Needle Valve Seat
11 Float Fulcrum Pin
12 Main Metering Jet
13 Main Metering Jet Plug
14 Secondary Idle Air Bleeder
15 Idle Needle Valve
16 Idle Discharge Holes
17 Throttle Valve
18 Vacuum Piston
19 Fast Idle Channel
20 Primary Venturi
21 Choke Link
22 Secondary Venturi
23 Pump Piston Link
24 Dust Washer
25 Retainer Washer
26 Dust Washer Spring
27 Spring Retainer Washer



28 Pump Duration Spring
29 Pump Piston
30 Piston Expansion Spring
31 Pump Relief Valve
32 Pump Inlet Check Valve
33 Power By-Pass Jet
34 Vacuum Spark Control Connection
35 Pump Discharge Nozzle

Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **15/32"** below top surface of float chamber (without gasket) at 3 lbs pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level).

MAIN METERING SYSTEM—Venturi **1-1/32"**; Main Discharge Jet **No. 32** P-23346 **(Tool T-24967)**; High Speed Bleeder **No. 65** P-22764 Main Metering Jet **.047"** P-19442 **(Tool T-24924)**; Use **Tool T-19099** Screw Driver for removing main jet plug. Main metering system controls the flow of fuel up to approximately 65 to 70 M P H

POWER SYSTEM—Combination Power and Pump By-Pass Jet **No. 57** P-20854. The Power Jet is brought into action at approximately 65 to 70 M P. H. Pump piston to rest on seat of by-pass jet (less over-travel) with throttle valve opened **5/16"** + — **1/64"** drill (measure with shank end of **5/16"** drill); bend pump lever fulcrum arm at ball joint end to obtain correct setting

ACCELERATION—Pump Discharge Nozzles **No. 65** in main body, Pump capacity **11** to **15** c c. per 10 fast strokes, and **17** to **21** c.c. per 10 slow strokes. Use **Tool T-24972.** Pump action takes place during acceleration period only.

IDLE SYSTEM—Idle Discharge holes **Nos. 54-58.** With throttle valve fully closed and **No. 58** drill in idle hole, edge of valve is located **.030"** + — **.004"** from **No. 58** drill; Idle Air Bleed **No. 36**, in throttle body **No. 60** P-23649; Idle Tube **No. 55** P-23646 **Adjustment:** Adjust to smooth running, one barrel at a time, OUT to make richer and IN to make leaner; throttle at 7 to 8 M. P. H.

VACUUM SPARK CONTROL—With throttle fully closed and **No. 50** drill in spark hole, edge of valve is located **Flush** + — **.004"** from **No. 50** drill.

FLANGE GASKET—P-21990.

SPECIAL TOOLS REQUIRED—Use Packard complete Tool Kit **SER. 376;** T-24733 Float Adjuster Wrench; T-24967 Main Discharge Jet Remover; T-24924 Main Metering Jet Wrench; T-24970 By-Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burette Gauge; T-24968 Handle; T-19099 Main Jet Plug Screw Driver.

MOTOR TUNE-UP DATA

SPARK PLUG—.025" to .030".
Clean and adjust at regular intervals.

DISTRIBUTOR—.017".
Breaker gap set .017".
Replace if necessary.

VALVES—Intake: .007".
Exhaust: .010". **Engine hot.**

IGNITION TIMING—Breaker contacts to open for No. 1 cylinder at 8° or 4 graduations on flywheel before top dead center.

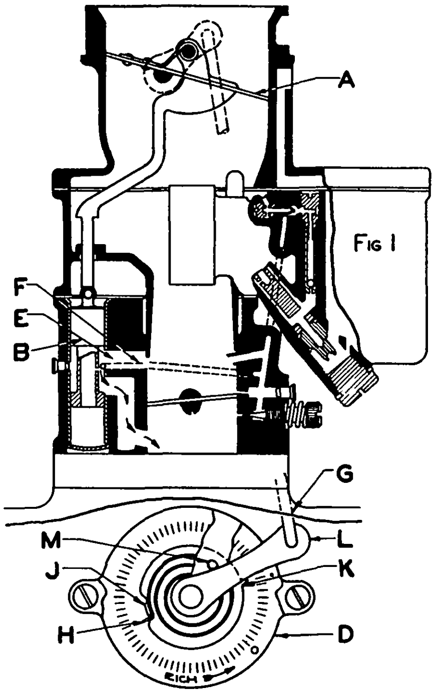
SERVICE RECOMMENDATION — Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

Printed in U S A

AUTOMATIC CHOKE CONTROL

GENERAL DESCRIPTION

In the Stromberg Model EE 14 carburetor the automatic choke control, with the exception of the thermostat unit, is built integral with the carburetor The thermostat is attached to the manifold where it absorbs heat from the exhaust gas to govern its tension The principles of operation are the same as previously used on Packard models, namely manifold vacuum, heat on a thermostat spring, and offset choke valve in the carburetor The vacuum piston is used to open the choke valve when the engine begins to fire It is directly connected to the choke valve while the thermostat spring is connected to the choke stem The fast idle feature is accomplished by internal channels supplying additional fuel below the throttle valve during the cranking and warming up periods Figs 1 to 4 show the automatic choke control and fast idle in the various stages of operation



OPERATIONS AND ADJUSTMENTS

CHOKE CLOSED — FAST IDLE — COLD ENGINE

When the engine becomes cold the thermostat also cools and gradually gains sufficient tension to close the choke valve "A" With this action the vacuum piston "B", being directly connected to the choke valve, is raised to its upper position and opens fast idle passage "E" so that air is drawn through "E" during the cranking and fast idle periods The air flow through "E" draws fuel from passage "F" to supply an additional mixture for fast idle, the mixture following the path of the arrows While the engine is being cranked the choke valve and vacuum piston remain in the position as shown in Fig 1

ADJUSTING THERMOSTAT

To adjust the thermostat it is necessary to remove the complete unit "D" from the manifold

1 Allow the thermostat to cool or warm until it has the temperature of 70°.
THIS IS VERY IMPORTANT

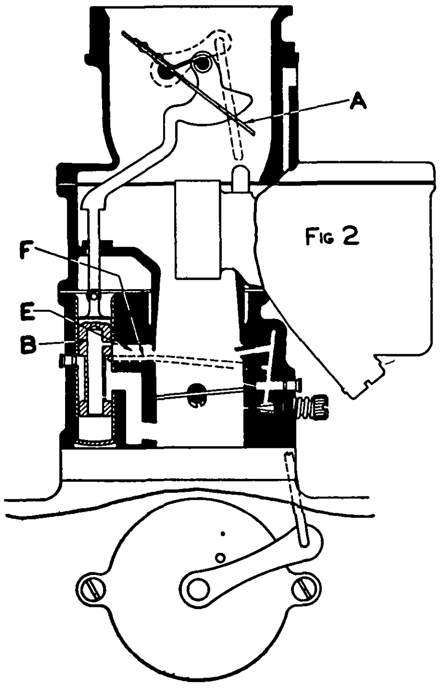
2 After it has reached 70° temperature unhook the thermostat spring "H" from prong "J" and revolve indicator point "K" to the zero marking on the thermostat plate In this position the hook of the thermostat should come flush with prong "J" of the indicator

3 Indicator pointer "K" should then be revolved to the prick punch marking which is 11 notches rich and is the original setting made at the factory If thermostat hook does not come flush against prong "J", when pointer "K" is at zero, it will be necessary to re-calibrate the thermostat as follows

4 With lever "L" held against screw "M", revolve pointer "K" so that hook of the thermostat comes flush with prong "J" This will then place pointer "K" at a different position and will be the new zero location This should be stamped on the thermostat plate and the old marking obliterated

5 Hook the spring onto prong "J" and revolve pointer "K" 11 notches rich Fasten screw "M" securely

6 Re-install thermostat unit "D" in manifold and with choke valve "A" in closed position, attach rod "G" to lever "L", holding lever against screw "M"



CHOKE PARTIALLY OPEN — ENGINE FIRING — FAST IDLE

When the engine begins to fire and manifold vacuum is created, vacuum piston "B" is pulled down and opens choke valve "A" to admit sufficient air for a running mixture Fig 2 The travel of the piston is stopped by the upper side hole in the piston being exposed to air taken through passage "E", thereby reducing the vacuum pull on the piston The mixture of air and fuel from passages "E" and "F" provide the fast idle feature.

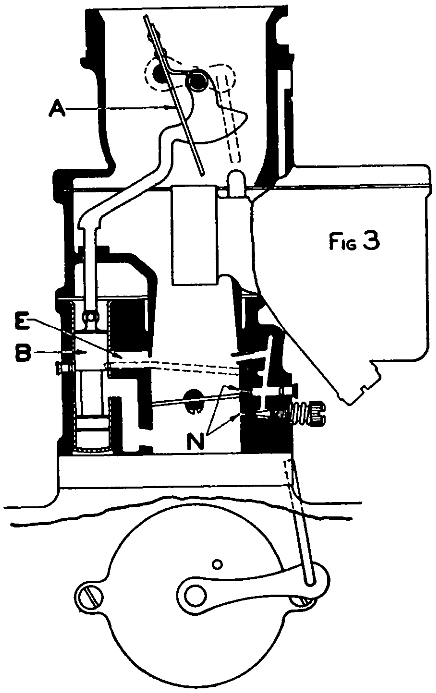


Fig 3

ENGINE WARM—SLOW IDLE

The choke valve in the carburetor being off center continues to open by the force of the inrushing air The amount of opening is controlled by the tension of the thermostat spring until the thermostat absorbs sufficient heat so that it will not offer any resistance As the choke valve "A" opens it allows the vacuum piston "B" to lower until the piston closes passages "E" and "F" which eliminates the fast idle Fuel is then only taken through the regular idle discharge holes 'N Fig 3

CHOKE WIDE OPEN—SLOW IDLE

When engine reaches normal operating temperature the choke valve "A' will be in wide open position and engine at slow idle Fig 4 The throttle stop screw should be adjusted to a speed of 7 to 8 miles per hour This is the only adjustment that is necessary with relation to the idle speed of the engine

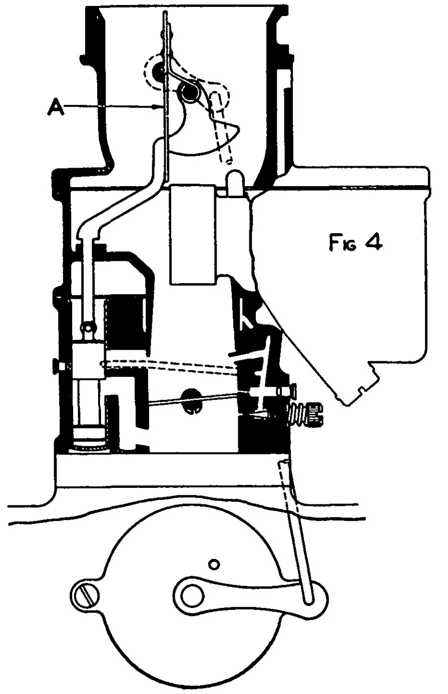


Fig 4

SERVICE ITEMS

For the satisfactory performance of any automatic choke control all parts MUST MOVE FREELY AND NOT BIND OR STICK in any position through the range of their travel When servicing the automatic choke control of the Model EE 14 carburetor, there are several items that should receive attention If difficulty is experienced with starting or a visual inspection indicates binding of the parts, the unit should be completely dis-assembled and the parts checked in the following manner

Remove the carburetor from the manifold and dis assemble the throttle body from the main body This permits disconnecting vacuum piston from the choke link Remove choke valve and link assembly from air horn being careful not to lose dust washer Remove lever fulcrum pin and assemble a **No. 19** drill (166) in place of it as illustrated in Fig 5 The drill in the lever is a means of checking the position of the hole in the lever in relation to the choke valve The hole being the fulcrum point of the choke link, it is very essential that it is in exact center position and also parallel to the surface of the valve as shown in Figs 5 and 6 The lever can be bent or twisted when required for proper positioning so that the choke link is at right angles to the valve A new pin, P-22579, should then be assembled into the lever care being taken when doing this so that the yoke part of the lever is not spread or distorted to cause a loose fit

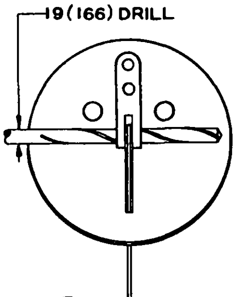


Fig 5

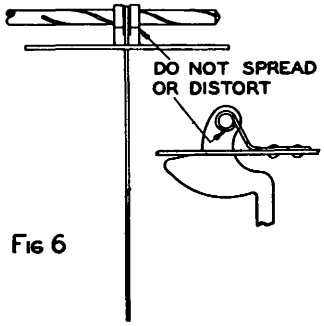


Fig 6

The throttle body main body and air horn should then be assembled together Hold choke valve closed centering it in the air horn and fasten screws lightly Open and close choke valve several times to make certain that the choke link does not bind or wobble Fasten screws securely and with heavy pliers upset the ends of the screws to lock them in place

Referring to Fig 7 the pull of the vacuum piston should be checked by placing the shank of a NEW **No. 34** (111") drill in the gauge hole The choke valve should then be opened until the piston comes to rest on the **No. 34** drill In this position the choke valve should be opened so that a **21/64"** drill can be placed between the valve and the air horn as illustrated If the amount of opening is not correct it can be changed by bending the lever at the point indicated T 24733

The next operation is to remove the plug from the bottom of the vacuum cylinder with a wood dowel which permits thorough cleaning of the cylinder wall Clean alcohol, benzol, or gasoline should be used to remove any film that may be present The vacuum piston should likewise be cleaned in the same manner

CAUTION NOTE: DO NOT USE OIL OR ANY LUBRICANT ON PISTON OR IN CYLINDER, AS IT MAY CONGEAL AND HINDER FREE MOVEMENT A new plug, P 20782, should then be assembled at the bottom of the vacuum cylinder. Use the ball-peen end of a machinist s hammer to assemble the plug, but do not exert excessive force

Place dust washer on choke link with rounded edge down and in position to conform with the main body contour Vacuum piston should then be connected to choke link with the bleeder hole in the side of the piston toward the barrel of the carburetor. A new, P-20973, cotter pin should be used and the ends formed snugly around the piston stem

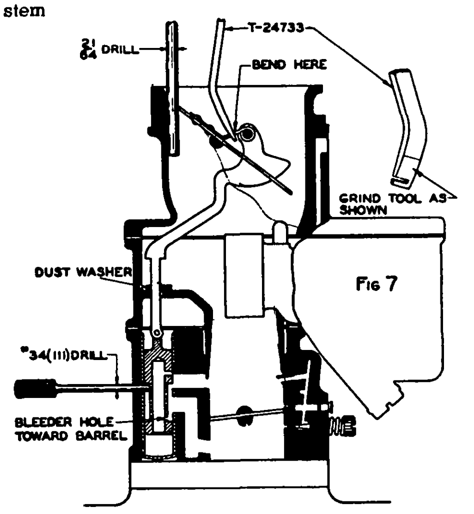
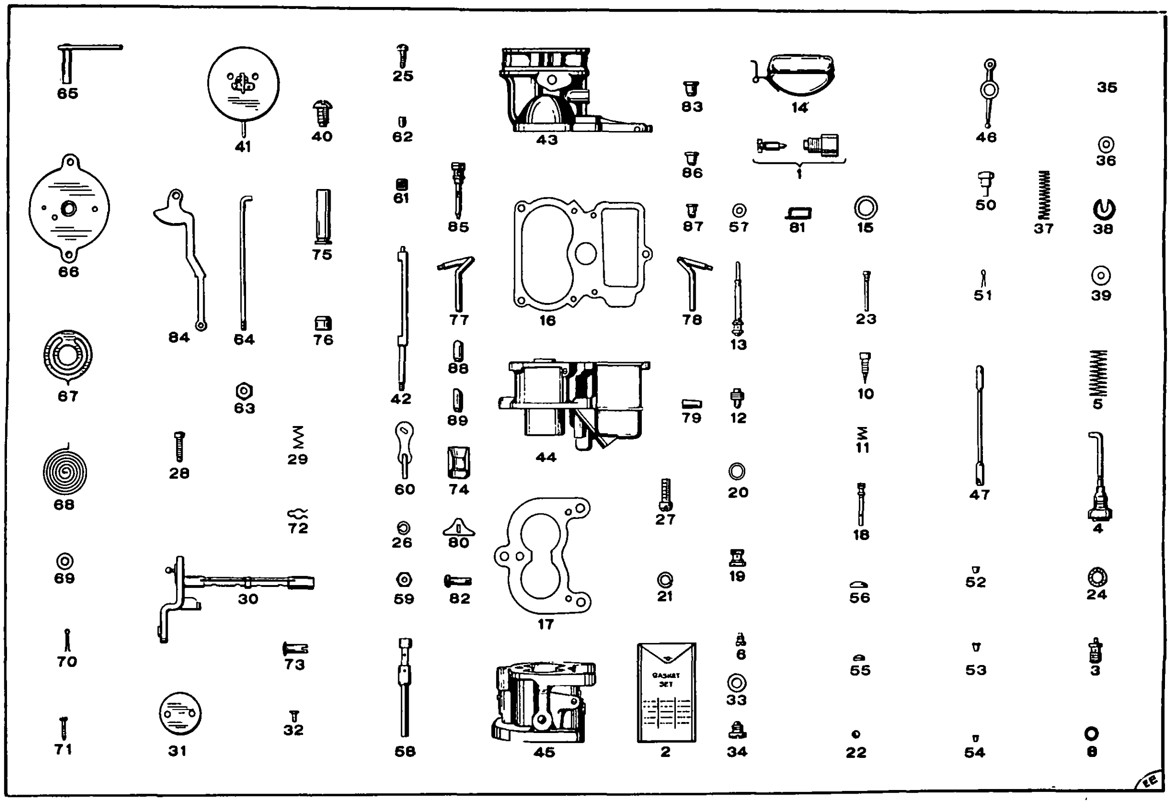


Fig 7

tool can be ground to fit the lever and used to adjust it for correct opening

On the later production carburetor, namely A-18161, P 23476 dust washer was used When servicing the older units such as A-18091 this dust washer should be added to the choke link For carburetor A 17701 use P 23106 dust washer



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No.	Part No.	Part Name
	1	**P-23509**	Float Needle Valve Clip & Seat .101" **(NOT VAR.)**
	2	**J-5330-G**	Complete Gasket Set
	3	**P-20854**	Power By-Pass Jet No. 57 **(NOT VAR.)**
	4	**P-20775**	Pump Piston and Link **(Includes P-16960)**
	4-A	**P-20879**	Pump Piston Link and Spring (Complete)
	5	**P-19458**	Spring—Pump Duration
	6	**P-18144**	Pump Inlet Check Valve
	8	**P-19448**	Gasket—By-Pass Jet
	10	**P-15478**	Idle Needle Valve
	11	**P-15481**	Spring—Idle Needle Valve
	12	**P-19442**	Metering Jet—**.047"** **(VAR.)**
	13	**P-23346**	Main Discharge Jet No. 32 **(NOT VAR.)**
	14	**P-22081**	Float and Lever
	15	**P-10666**	Gasket—Float Needle Valve Seat
	16	**P-19428**	Gasket—Air Horn
	17	**P-20828**	Gasket—Main Body
	18	**P-23646**	Idle Tube
	19	**P-22019**	Plug—Main Discharge Jet—7/16-24
		P-20447	Plug—Main Discharge Jet 3/8-24 (Use P-7338 Gasket)
	20	**P-2886**	Gasket—Main Discharge Jet Plug
	21	**P-3157**	Lockwasher—Main Body Attaching Screw
	22	**P-18772**	Lead Ball
	23	**P-18125**	Screw—Float Lever Fulcrum
	24	**P-16960**	Spring—Pump Piston Leather Expansion
	25	**P-3199**	Screw—Air Horn Attaching
	26	**P-1791**	Lockwasher—Air Horn Attach. Screw and Choke Lever
	27	**P-709**	Screw—Main Body Attaching
	28	**P-15456**	Screw—Throttle Stop
	29	**P-15831**	Spring—Throttle Stop Screw
	30	**P-22583**	Throttle Lever and Stem
		P-19509	Ball—Connector
	31	**P-23357**	Thr. Val. (5°) (Rt.) with (Counter Bore) **(NOT VAR.)**
		P-23347	Throttle Valve (5°) (Left) **(NOT VAR.)**
	32	**P-4522**	Screw—Throttle Valve Attaching
	33	**P-7338**	Gasket—Check Valve Plug
	34	**P-19716**	Plug—Check Valve Plug
	35	**P-17380**	Washer—Felt—Pump Link
	36	**P-17060**	Splash Washer—Pump Link
	37	**P-17753**	Spring—Packing Retainer
	38	**P-22045**	Washer—Cup
	39	**P-22046**	Washer—Spring Retainer
	40	**P-22573**	Screw—Choke Valve Attaching
	41	**P-22585**	Choke Valve
	42	**P-22588**	Choke Stem
	43	**P-22599**	Air Horn
	43-A	**P-22597**	Assembly—Air Horn and Valve
	44	**P-23362**	Assembly—Main Body **1-1/32"** Venturi Complete with **No. 65** H. S. Bleeder and Pump Discharge Nozzle **(VAR.)**
	45	**P-23657**	Assembly—Throttle Body **No. 54-58** Idle Disch. Holes **No. 50** Vacuum Spark Hole **(VAR.)**
	46	**P-22943**	Pump Lever
	47	**P-19420**	Pump Rod
	50	**P-20611**	Screw—Pump Lever Fulcrum
	51	**P-7170**	Cotter Pin—Pump Rod
	52	**P-20884**	Plug—Vacuum Piston Channel—1/4"
	53	**P-15458**	Plug—Idle Discharge Holes No. 10
	54	**P-15457**	Plug—Vacuum Piston Channel No. 6
	55	**P-21054**	Plug—Vacuum Piston Channel—17/64"
	56	**P-20782**	Plug—Vacuum Piston Channel—17/32"
	57	**P-23805**	Bushing—Pump Lever
	58	**P-23475**	Vacuum Piston
	59	**P-2290**	Nut—Choke Lever Lock
	60	**P-22598**	Choke Lever
		P-19575	Ball Joint
	61	**P-20766**	Bearing—Choke Stem Screw
	62	**P-15287**	Set Screw—Choke Stem Screw Bearing
	63	**P-19587**	Nut—Choke Rod Adjusting
	64	**P-20852**	Choke Rod
		P-21185	Choke Rod and Nut
	65	**P-20254**	Thermostat Lever and Stem
	66	**P-22580**	Thermostat Cover and Bushing
	67	**P-20834**	Thermostat Bracket
	68	**P-22582**	Thermostat
	68-A	**P-22564**	Thermostat Assembly. (Complete)
	69	**P-16426**	Washer—Thermostat
	70	**P-4**	Cotter Pin—Thermostat Washer
	71	**P-20618**	Screw—Bracket Adjusting
	72	**P-21338**	Cotter Pin—Thermostat Stem
	73	**P-22579**	Pin—Fulcrum—Vacuum Piston Lever
	74	**P-23694**	Plug—Float Chamber Vent
	75	**P-20767**	Bushing—Choke Stem
	76	**P-20768**	Bushing—Choke Stem Bearing
	77	**P-23808**	Pump Discharge Tube (Right)
	78	**P-23809**	Pump Discharge Tube (Left)
	79	**P-19430**	Wedge—Pump Tube
	80	**P-23476**	Cover—Vacuum Piston Link Channel
	81	**P-21977**	Clip—Float Needle Valve
	82	**P-20973**	Rivet—Vacuum Piston
	83	**P-15459**	Plug—Vacuum Spark Control
	84	**P-22577**	Lever—Vacuum Piston
	85	**P-23649**	Idle Air Bleed Tube No. 60 **(NOT VAR.)**
	86	**P-16996**	Plug—Vacuum Piston Channel No. 8
	87	**P-17953**	Plug—Vacuum Piston Channel 1/8"
	88	**P-22764**	High Speed Bleeder No. 65 **(NOT VAR.)**
	89	**P-23658**	Vent Tube—Vent Channel

NOTE—For parts marked (VAR.) size must be specified when ordering.

BENDIX PRODUCTS DIVISION
SOUTH BEND **OF BENDIX AVIATION CORPORATION** **INDIANA**

STROMBERG "EE-23" CARBRUETOR

STROMBERG NO. A-18392 (CODE NO. 10-28) PACKARD SYMBOL 232165

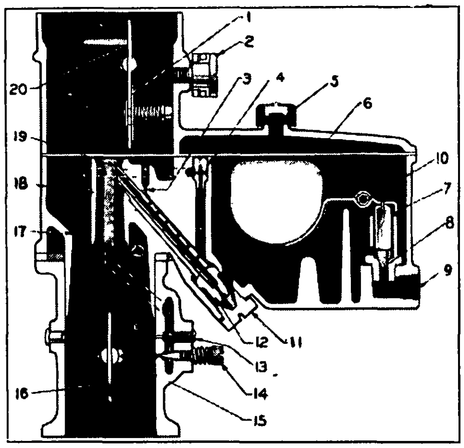
SIZE: 1¼" DUAL D. D. 3-HOLE FLANGE

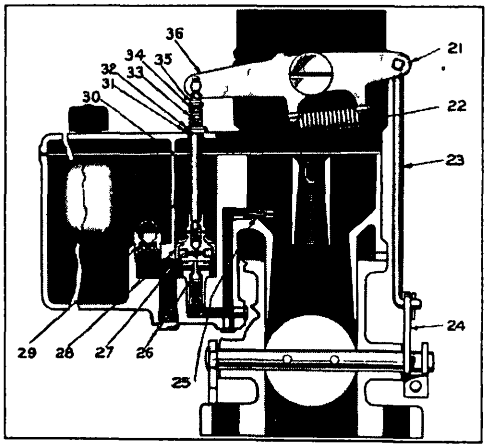
1937-38 PACKARD

1937 MODEL
1500-1-2
1938 MODEL
1603-4-5
3-3/16"x5"—8 cyl.

PARTS ILLUSTRATED

1 Poppet Valve
2 Fulcrum Screw
3 High Speed Bleed
4 Idle Tube
5 Float Chamber Vent
6 Float
7 Float Needle Valve
8 Float Needle Valve Seat
9 Gasoline Inlet
10 Float Fulcrum Pin
11 Main Discharge Jet Plug
12 Main Metering Jet
13 Idle Discharge Plug
14 Idle Needle Valve
15 Idle Discharge Holes
16 Throttle Valve
17 Primary Venturi
18 Auxiliary Venturi
19 Main Discharge Jet
20 Choke Valve
21 Pump Lever Arm
22 Pump Arm Connecting Spring
23 Pump Rod
24 Pump Lever
25 Pump Discharge Nozzle
26 Power By-Pass Jet
27 Pump Piston Spring
28 Pump Piston
29 Check Valve
30 Pump Piston Link
31 Felt Washer
32 Splash Washer
33 Spring
34 Retainer Washer
35 Cotter Pin
36 Pump Piston Arm





Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **5/8"** below top surface of float chamber (without gasket) at 3 lbs. pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level).

MAIN METERING SYSTEM—Venturi **1-3/32";** Main Discharge Jet **No. 28-36** P-19364 **(Tool T-24967);** High Speed Bleeder **No. 65** in body. Main Metering Jet **.050"** P-17004 **(Tool T-23844);** Use **Tool T-19099** Screw Driver for removing main jet plug. Main metering system controls the flow of fuel up to approximately 65 to 70 M. P. H.

POWER SYSTEM—Combination Power and Pump By-Pass Jet **No. 64** P-20823. The Power Jet is brought into action at approximately 65 to 70 M. P. H. Pump piston to rest on seat of by-pass jet (less over-travel) with throttle valve opened **9/32" + — 1/64"** drill (maximum pump setting) (measure with shank end of **9/32"** drill); bend pump rod to obtain correct setting

ACCELERATION—Pump Discharge Nozzles **No. 60** in main body; Pump capacity **12** to **16** c.c. per 10 fast strokes, and **14** to **18** c.c. per 10 slow strokes with pump rod link set in minimum setting. Use **Tool T-24972.** Pump action takes place during acceleration period only. Pump to be set in minimum adjustment.

IDLE SYSTEM—Idle Discharge holes **Nos. 56-60.** With throttle valve fully closed and **No. 60** drill in idle hole, edge of valve is located **.020" + — .004"** from **No. 60** drill; Idle Air Bleed **No. 42** P-15477; Idle Tube **No. 70** P-17007. **Adjustment:** Adjust to smooth running, one barrel at a time, OUT to make richer and IN to make leaner; throttle at 7 to 8 M. P. H.

VACUUM SPARK CONTROL—With throttle fully closed and **No. 56** drill in spark hole, edge of valve is located **.015"** from **No. 56** drill.

FLANGE GASKET—P-22393.

SPECIAL TOOLS REQUIRED—Use Packard complete Tool Kit **SER. 376;** T-24733 Float Adjuster Wrench; T-24967 Main Discharge Jet Remover; T-23844 Main Metering Jet Wrench; T-24970 By-Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burrette Gauge; T-24968 Handle; T-19099 Main Jet Plug Screw Driver; T-23785 Check Valve Socket Wrench.

MOTOR TUNE-UP DATA

SPARK PLUG—.028" to .030"—1937.
.025" to .030"—1938.
Clean and adjust at regular intervals.

DISTRIBUTOR—.0125"—1937.
.017"—1938.
Breaker gap set (as above).
Replace if necessary.

VALVES—Intake: .006".
Exhaust: .008". Engine hot.

IGNITION TIMING—Breaker contacts to open for No. 1 cylinder at 6 to 8 degrees or graduations on vibration damper before top dead center. This position is when the 6th to 8th graduation ahead of "UDC1" alines with pointer on left front face of chain case cover.

SERVICE RECOMMENDATION — Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

GENERAL DESCRIPTION AND ADJUSTMENTS OF AUTOMATIC CHOKE CONTROL AND FAST IDLE MECHANISM

In the Stromberg Model EE 23 carburetor, the automatic choke control with the exception of the thermostat unit "R" is built into the throttle valve body The thermostat is attached to the manifold riser where it can absorb heat from the exhaust gasses which govern its tension The design of the automatic choke control in the EE 23 carburetor does not require the choke control be "locked" in closed position while cranking the engine

The purpose of the fast idle mechanism is to prevent the throttle valve from closing tightly while cranking the engine and also from stalling during the warming up period Figures 1 to 4 show the automatic choke control and fast idle mechanism in the various stages of operation

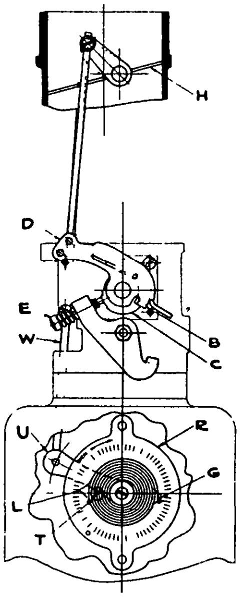


FIG. 1

CHOKE CLOSED — FAST IDLE

To make a start it is necessary to OPEN THROTTLE TO 20 MILE HOUR SPEED. With this movement adjustment screw "E' is lifted away from the fast idle cam "C" and allows choke valve 'H to close With the raising of lever "D", ear "B", which is a part of the lever rotates fast idle cam ' C" so that adjustment screw "E" comes to rest on the extreme fast idle position of cam "C" During the cranking of the engine the carburetor and choke control remain in the closed position as shown in Fig 1

ADJUSTING THERMOSTAT

To adjust the thermostat it is necessary to remove the complete unit R' from the manifold and proceed as follows

1 Allow the thermostat to cool or warm until it has reached the temperature of 70°.

2 After it has reached this temperature unhook the thermostat from the prong "G", revolve indicator point ' L to the zero marking of the thermostat plate In this position the hook of the thermostat should come flush with the prong "G" of the indicator

3 Thermostat pointer should then be revolved to the prick punch marking which is eleven graduations rich and is the original setting made at the factory
If the thermostat hook does not come against prong "G" when the pointer "L" is at the zero marking it will be necessary to recalibrate the thermostat as follows

4 With lever U held against screw ' T', revolve pointer so that the hook of the thermostat comes flush with prong "G"
This will then place pointer ' L" at a different position and will be the new zero location This should be stamped on the plate and the old marking obliterated

5 From this point, hook the spring onto prong "G" and revolve pointer "L" eleven notches rich and lock in position

6 Reinstall thermostat unit R in manifold and with choke valve ' H ' in closed position attach rod 'W to lever U holding lever against screw "T"

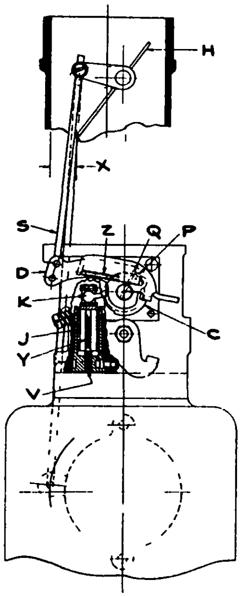


FIG. 2

CHOKE PARTIALLY OPEN — ENGINE WARM — INTERMEDIATE IDLE

As soon as the engine begins to fire and a manifold vacuum is created, vacuum piston J' is pulled down Ear ' P" of loose arm "K" comes in contact with dowel pin "Q' to rotate shaft and assembly in counter clockwise direction, lever 'D being on the same shaft as pin "Q rotates with it and pulls down connecting rod "S", forcing choke valve "H" to open a predetermined amount.

Fast idle cam "C" is then rotated by spring "Z" allowing adjustment screw "E" to gradually close the throttle valve until it reaches the slow idle position The choke valve in the carburetor being off center, continues to open by the inrushing air, which works against the tension of the thermostat until the thermostat absorbs enough heat so that it will not offer any resistance and choke valve "H" drops to the position as shown in Fig No 4 with a hot engine If for any reason it is necessary to replace piston sleeve or pin "Y", the pin should be adjusted so that a **5/16"** drill can be placed between the choke valve and body shown as "X", with piston "J" in the down position After pin is adjusted, lead ball "V" should be used to lock pin in position.

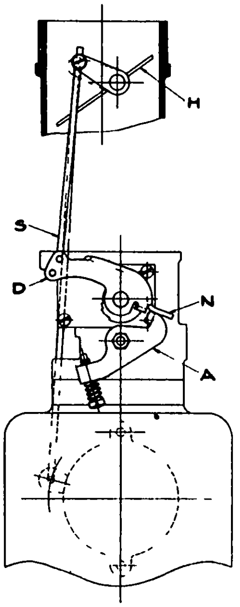


FIG. 3

ENGINE FLOODED — THROTTLE OPEN

Should the engine become flooded for any reason, the choke valve "H" can be manually opened by kicking the throttle pedal wide open This action rotates throttle lever "A" in anti-clockwise direction to bring it in contact with ear "N" of lever "D", which pulls down connecting rod "S" and opens choke valve "H" The engine then may be cranked for a few times to clean out the manifold

CHOKE OPEN — SLOW IDLE — ENGINE HOT OR COLD

Figure 4 shows the choke valve "H" in wide open position which it will be when a hot motor is stopped and the throttle valve is allowed to close In this illustration, adjustment screw "E" is shown at slow or curb idle which should be set at 7 miles per hour with the engine warm As the engine becomes cold the thermostat also cools to gradually gain tension and tend to close the carburetor choke valve It is prevented from doing so by the fast idle adjustment screw "E' coming in contact with the notch on the fast idle cam "C".

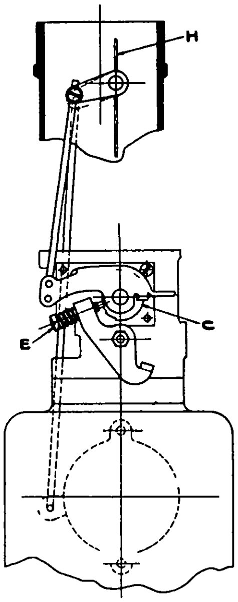
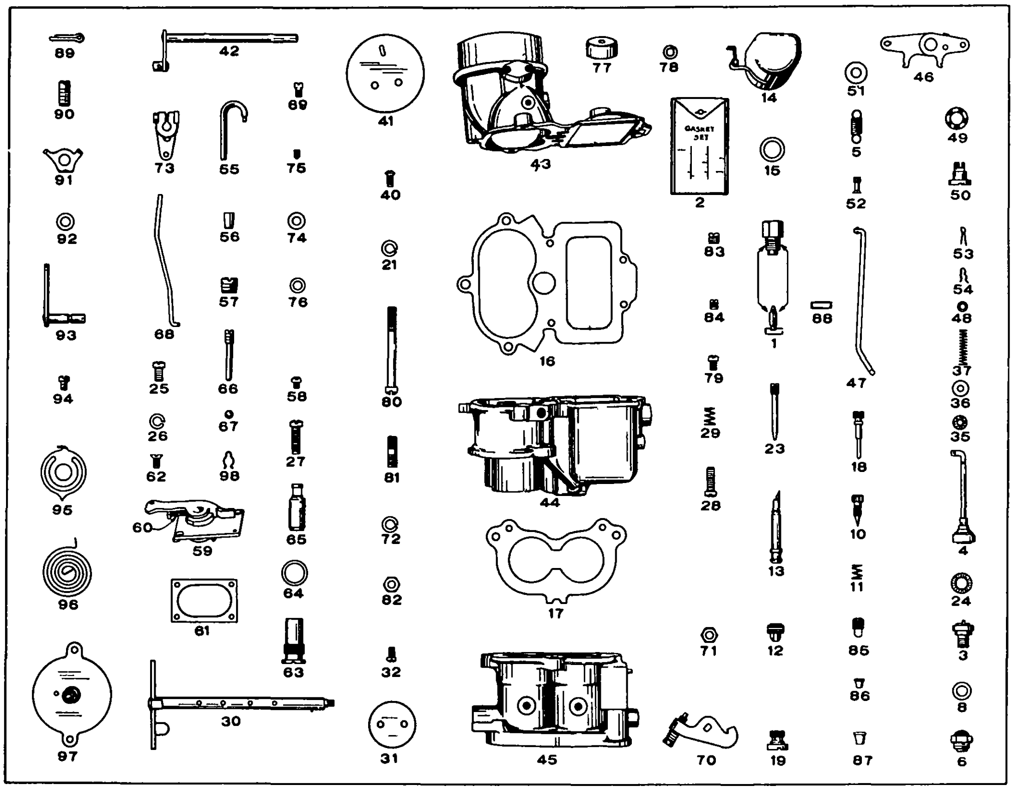


FIG. 4

FAST IDLE ADJUSTMENT

With fast idle screw in contact with second step of cam, choke valve to be open from a **N . 1** drill to **15/64"** drill Adjust with set screw on choke lever



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No	Part No	Part Name	
	1	P 22091	Float Needle Valve Clip & Seat 130	(NOT VAR)
	2	J 4385 G	Complete Gasket Set	
	3	P 20823	Power By Pass Jet No 64	(NOT VAR)
	4	P 18388	Pump Piston & Link **(Includes P 16960)**	
	5	P 17042	Spring—Pump Duration	
	6	P 16990	Pump Inlet Check Valve	
	8	P 6855	Gasket—By Pass Jet	
	10	P 17402	Idle Needle Valve	
	11	P 15481	Spring—Idle Needle Valve	
	12	P 17004	Metering Jet—**050**	(VAR)
	13	P 19364	Main Discharge Jet No 28 36	(NOT VAR)
	14	P 22088	Float with Lever	
	15	P 10666	Gasket—Float Needle Valve Seat	
	16	P 17923	Gasket—Air Horn	
	17	P 16941	Gasket—Main Body	
	18	P 17007	Idle Tube No 70	(NOT VAR)
	19	P 18130	Plug—Main Discharge Jet	
	21	P 3157	Lockwasher—Main Body Attaching Screw	
	23	P 17939	Screw—Fulcrum—Float Lever	
	24	P 16960	Spring—Pump Piston Leather Expansion	
	25	P 46	Screw—Air Horn Attaching	
	26	P 6668	Lockwasher—Air Horn Attaching Screw	
	27	P 15554	Screw—Main Body Attaching	
	28	P 15456	Screw—Throttle Stop	
	29	P 15831	Spring—Throttle Stop Screw	
	30	P 22533	Throttle Lever and Stem	
	31	P 17018	Throttle Valve (5°)	(NOT VAR)
	32	P 16716	Screw—Throttle Valve Attaching	
	35	P 17380	Washer—Felt	
	36	P 17060	Washer—Splash—Pump Lever	
	37	P 17753	Spring—Felt Retainer	
	40	P 4522	Screw—Choke Valve Attaching	
	41	P 19345	Choke Valve	
	42	P 19766	Choke Stem and Lever	
	43	P 20465	Air Horn	
	43 A	P 20463	Air Horn and Valve (Complete)	
	44	P 20292	Main Body **1 3/32** Venturi **No 65** H S Bleeder **No 60** Pump Discharge Tube	(VAR)
	45	P 19342	Throttle Body **No 56 60** Idle Disch Hole **No 56** Spark Hole	(VAR)
		P 18970	Automatic Choke Unit Guide	
	46	P 16976	Pump Lever	
	47	P 22528	Pump Rod	
	48	P 9394	Washer—Pump Rod	
	49	P 17133	Washer—Pump Lever Fulcrum Screw Spring	
	50	P 16973	Screw—Pump Lever Fulcrum	
	51	P 17009	Washer—Pump Lever Fulcrum Screw	
	52	P 17027	Screw—Pump Lever Fulcrum Screw Lock	
	53	P 7170	Cotter Pin—Pump Rod	
	54	P 19374	Cotter Pin—Pump Link	
	55	P 20232	Pump Discharge Tube No 60	(NOT VAR)
	56	P 19430	Wedge—Pump Tube	
	57	P 6406	Plug—Pump Channel 5/16 24	
	58	P 6970	Screw—Pump Lever Stop	
	59	P 19751	Automatic Choke Unit **(Includes P 19104)**	
	60	P 19104	Spring—Automatic Choke Unit Cam Return	
	61	P 19124	Gasket—Automatic Choke Unit	
	62	P 19105	Screw—Automatic Choke Unit Attaching	
	63	P 19980	Vacuum Piston Sleeve	
	64	P 19662	Gasket—Vacuum Piston Sleeve	
	65	P 19987	Vacuum Piston	
	66	P 19982	Pin Vacuum Piston Adjusting	
	67	P 19983	Lead Ball—Vacuum Piston Adj Screw—Plug	
	68	P 19341	Rod—Fast Idle	
	69	P 14159	Screw—Fast Idle Rod Set	
	70	P 19351	Lever—Fast Idle Stop	
		P 19352	Fast Idle Stop	
		P 19103	Fast Idle Stop Adjusting Screw	
		P 15831	Fast Idle Stop Adjusting Screw Spring	
	71	P 2290	Nut—Fast Idle Stop Attaching	
	72	P 1791	Lockwasher—Fast Idle Stop Attaching Nut	
	73	P 20229	Lever—Choke Lever	
		P 16955	Choke Lever	
		P 18300	Choke Lever Clamp Screw	
		P 18299	Choke Lever Clamp Screw Nut	
	74	P 17081	Collar—Choke Stem	
	75	P 16161	Screw—Choke Stem Collar Set	
	76	P 16426	Washer—Choke Stem	
	77	P 18716	Vent Cap	
	78	P 12167	Lockwasher—Vent Cap Attaching Screw	
	79	P 2363	Screw—Vacuum Piston Stop & Vent Cap Attach	
	80	P 18111	Screw—Air Horn Attaching	
	81	P 8012	Stud—Main Body Attaching	
	82	P 17147	Nut—Main Body Attaching Stud	
	83	P 6387	Plug—Idle Discharge Holes and Air Horn 10-32	
	84	P 7098	Plug—Pump Channel No 8 32	
	85	P 15477	Idle Air Bleeder **No 42**	(VAR)
	86	P 15457	Plug—Idle Air Channel	
	87	P 15459	Plug—Idle Discharge Drilling Holes	
	88	P 17473	Clip—Float Needle Valve	
	89	P 4	Cotter Pin—Fast Idle Rod and Thermostat Stem Washer	
	90	P 17723	Screw—Thermostat Stop Adjusting	
	91	P 19144	Stop—Thermostat Lever	
	92	P 16426	Washer—Thermostat Stem	
	93	P 20254	Thermostat Stem and Lever	
	94	P 19114	Screw—Bracket Lock	
	95	P 19113	Bracket—Thermostat	
	96	P 22060	Thermostat	
	97	P 21358	Thermostat Plate and Bushing	
	98	P 21338	Cotter Pin—Thermostat Stem	
		P 20231	Thermostat Unit Complete	

NOTE—For parts marked (VAR) size must be specified when ordering

BENDIX PRODUCTS DIVISION

SOUTH BEND **OF BENDIX AVIATION CORPORATION** **INDIANA**

STROMBERG "EE-3" CARBURETOR

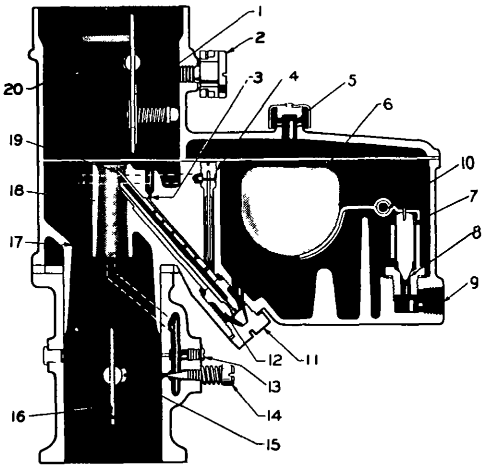
STROMBERG NO. A-17893 (CODE NO. 10-27C) PACKARD SYMBOL 232166

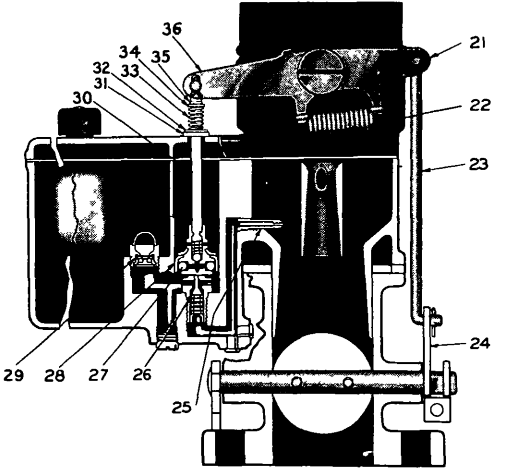
SIZE: 1½" DUAL D. D. 4-HOLE FLANGE

1937-38
PACKARD
MODEL
1937—1506-7-8
1938—1606-7-8
3-7/16"x4-1/4"—12 cyl.

PARTS ILLUSTRATED

1	Poppet Valve
2	Fulcrum Screw
3	High Speed Bleed
4	Idle Tube
5	Float Chamber Vent
6	Float
7	Float Needle Valve
8	Float Needle Valve Seat
9	Gasoline Inlet
10	Float Fulcrum Pin
11	Main Discharge Jet Plug
12	Main Metering Jet
13	Idle Discharge Plug
14	Idle Needle Valve
15	Idle Discharge Holes
16	Throttle Valve
17	Primary Venturi
18	Auxiliary Venturi
19	Main Discharge Jet
20	Choke Valve
21	Pump Lever Arm
22	Pump Arm Connecting Spring
23	Pump Rod
24	Pump Lever
25	Pump Discharge Nozzle
26	Power By-Pass Jet
27	Pump Piston Spring
28	Pump Piston
29	Check Valve
30	Pump Piston Link
31	Felt Washer
32	Splash Washer
33	Spring
34	Retainer Washer
35	Cotter Pin
36	Pump Piston Arm





Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **9/16"** below top surface of float chamber (without gasket) at 3 lbs. pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level).

MAIN METERING SYSTEM—Venturi **1-5/16"**; Main Discharge Jet **No. 32** P-22755 **(Tool T-24967)**; High Speed Bleeder **No. 70** P-22764; Main Metering Jet **.068"** P-17004 **(Tool T-23844)**; Use **Tool T-25034** Socket for removing main jet plug. Main metering system controls the flow of fuel up to approximately 65 to 70 M. P. H.

POWER SYSTEM—Combination Power and Pump By-Pass Jet **No. .070"** P-16965 **(Tool T-20138).** The Power Jet is brought into action at approximately 65 to 70 M. P. H. Pump piston to rest on seat of by-pass jet (less over-travel) with throttle valve opened **7/32"** + — **1/64"** drill (maximum pump setting) (measure with shank end of **7/32"** drill); bend pump rod to obtain correct setting.

ACCELERATION—Pump Discharge Nozzles **No. 60** in main body; Pump capacity **22** to **24** c c per 10 strokes, with pump rod link set in minimum setting. Use **Tool T-24972.** Pump action takes place during acceleration period only. Pump to be set at maximum setting.

IDLE SYSTEM—Idle Discharge holes **Nos. 50-60.** With throttle valve fully closed and **No. 60** drill in idle hole, edge of valve is located **.053"** + — **.004"** from **No. 60** drill; Idle Air Bleed **No. 54** P-15477; **No. 56** in throttle body; Idle Tube **No. 70** in holder P-22737. **Adjustment:** Adjust to smooth running, one barrel at a time, OUT to make richer and IN to make leaner; throttle at 7 to 8 M. P. H.

FLANGE GASKET—P-16927.

SPECIAL TOOLS REQUIRED—Use Packard complete Tool Kit **SER-376;** T-24733 Float Adjuster Wrench; T-24967 Main Discharge Jet Remover; T-23844 Main Metering Jet Wrench; T-24970 By-Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burrette Gauge; T-24968 Handle; T-25034 Main Jet Plug Socket; T-23785 Check Valve Socket Wrench; T-20138 By-Pass Jet Socket Wrench; T-20140 Float Seat Socket Wrench.

MOTOR TUNE-UP DATA

SPARK PLUG—.028" to .030".
Clean and adjust at regular intervals.

DISTRIBUTOR—.020".
Breaker gap set .020".
Replace if necessary.

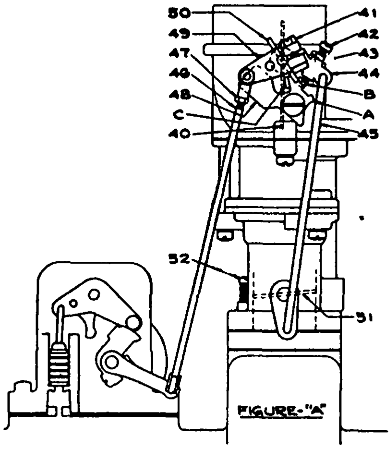
SERVICE RECOMMENDATION — Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

IGNITION TIMING—Stationary contacts to open for No. 1 cylinder when mark 6° to 8° before top dead center on vibration damper lines up with pointer. Engines with 7 to 1 optional head should be timed 4 to 5½ degrees or damper graduations before IRUDC".

VALVES—Intake:
Exhaust: Automatic take-up. No adjustment.

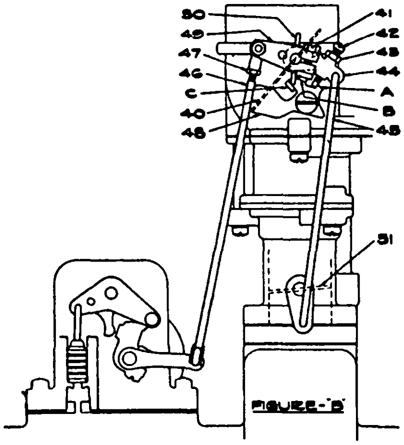
GENERAL DESCRIPTION OF "FAST IDLE" AND ITS ADJUSTMENTS

The purpose of the fast idle is to prevent the throttle valve from closing tightly while cranking the engine, and during the warming-up period. The following description and sketches show a typical installation in the various stages of operation.



Through a series of levers connected to the throttle valve, choke valve and the automatic choke control, the operation of the choke control assures the driver of an almost instantaneous start under any condition—hot or cold motor. Before proceeding let it be known and remembered that with either a **Hot or Cold Motor The Carburetor Choke Valve Does Not Close Tighly Until The Throttle Is Opened Equivalent To a 20-Mile Hour Speed.** The advantage and purpose of this will be understood from the following explanation and sketches.

When a hot motor is stopped and the throttle valve "51" is allowed to close, choke valve "40" is in wide open position as shown in Fig. "A". As the engine becomes cold, the thermostat tightens, partially closing the choke valve to a predetermined distance as shown in sketch "B", the throttle still being in closed position. The movement of pin "50" against ear "C" brings ear "A" into contact with the bottom of adjustment screw "42", which governs the amount.



To make a start, **Open Throttle To 20-Mile Hour Speed.** With this movement adjusting screw "42" is raised, releasing its hold on ear "A" and allowing choke valve "40" to snap shut as shown by the dotted lines in Fig. "C". As soon as the engine starts to fire, the choke valve partially opens as shown by the solid lines, which is done by manifold vacuum drawing down piston of choke control. Immediately on opening of the throttle the fast idle stop weight "48" shifts to the position as shown in Fig. "C".

When the throttle is closed after the start has been made, it is prevented from returning to slow idle position by the fast idle adjustment screw "42" riding on ear "A" of fast idle stop weight as shown in Fig. "C". This adjustment is set at the factory for a car speed of 15-20 miles per hour with a hot motor, giving approximately, 12 M. P. H. speed with a cold motor. When readjusting with a hot motor, it is necessary to hold fast idle stop weight "48" in the position as shown in Fig. "C", having throttle closed and adjustment screw "42" riding on ear "A".

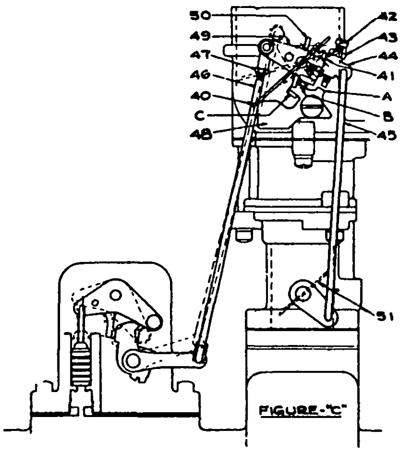


FIGURE-"C"

FAST IDLE ADJUSTMENT: Screw No. 42 to be screwed "IN" 6¾ turns beyond point of contact on ear "A" with throttle valve fully closed and all slack taken out of linkage as illustrated in Fig. "D".

After the motor has become warm, the choke and fast idle will assume the position as shown originally in sketch "A".

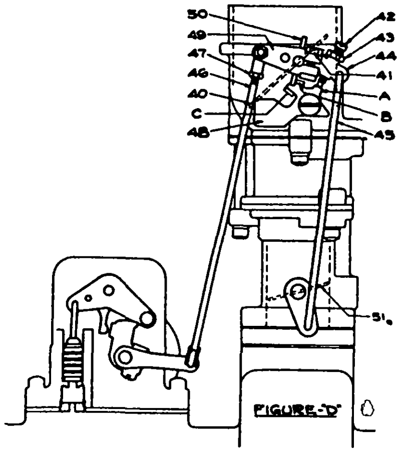


FIGURE-"D"

Should for any reason, the motor become loaded, it can be cleaned out by holding the accelerator in wide open position and allowing starter to turn over engine a few times. In this position choke valve is opened approximately 40% as shown in Fig. "D".

If for any reason the choke connecting rod "46" is removed and its length is changed, it can be corrected by having the choke lever "49", 66° from horizontal with the valve in closed position. Then adjust for correct length, placing ball joint in lever so that there is only .006" backlash; fasten all lock nuts securely.

The end play in the choke valve stem should be .003" on either side when the valve is in closed position, by placing a feeler gauge between the washers and the air horn.

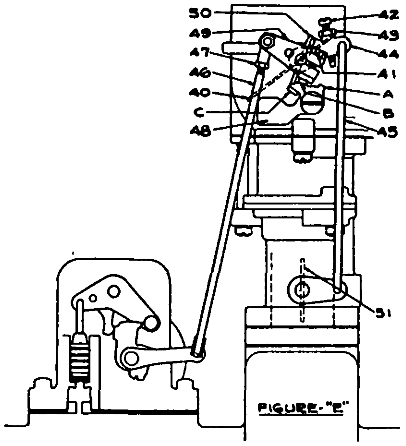
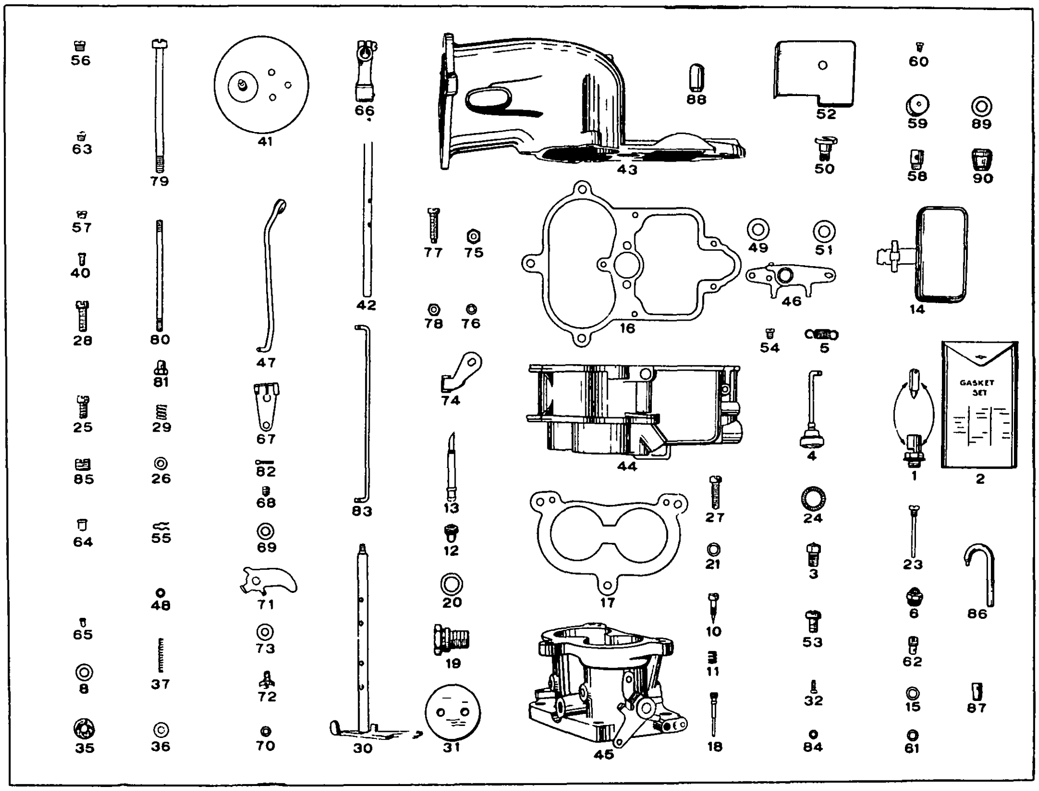


FIGURE-"E"

To assure smooth operation of the automatic choke control and the fast idle mechanism, it is of vital importance that all ball joints, levers and moving parts operate freely and do not stick or bind in any position of their travel.



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No.	Part No.	Part Name	
	1	P-19548	Float Needle Valve and Seat 140'	(NOT VAR.)
		P-17473	Float Needle Valve Clip	
	2	J-4365-G	Complete Gasket Set	
	3	*P-16965	Power By Pass Jet 070"	(VAR.)
	4	P-22766	Pump Piston and Link	(Includes P-17450)
	5	P-17042	Spring—Pump Duration	
	6	P-16990	Check Valve—Pump Inlet	
	8	P-6855	Gasket—By Pass Jet	
	10	P-17891	Idle Needle Valve	
	11	P-18710-L	Spring—Idle Needle Valve	
	12	*P-17004	Metering Jet **.068"**	(VAR.)
	13	*P-22755	Main Disch Jet No 32	(NOT VAR.)
	14	P-17464	Float with Lever	
	15	P-11572	Gasket—Float Needle Valve Seat	
	16	P-17394	Gasket—Air Horn	
	17	P-17393	Gasket—Main Body	
	18	*P-22737	Idle Tube	
	19	P 22476 L	Plug—Main Disch Jet	
	20	P 10666	Gasket—Main Disch Jet Plug	
	21	P-3157	Lockwasher—Main Body Attaching Screw	
	23	P-17446-L	Screw—Fulcrum—Float Lever	
	24	P-17450	Spring—Pump Piston Leather Expansion	
	25	P-109-L	Screw—Air Horn Attaching	
	26	P-6668	Lockwasher—Air Horn Attaching Screw	
	27	P 15554-L	Screw—Main Body Attaching	
	28	P-16586-L	Screw—Throttle Stop	
	29	P-15831-L	Spring—Throttle Stop Screw	
	30	P 22455	Throttle Lever and Stem	
	31	P-17371	Throttle Valve (5°)	(NOT VAR.)
	32	P-15259	Screw—Throttle Valve Attaching	
	35	P-17380	Washer—Felt	
	36	P-22856	Washer—Pump Link—Splash	
	37	P-17753	Spring—Pump Felt Retainer	
	40	P-4522	Screw—Choke Valve Attaching	
	41	P-18434	Choke Valve	
	42	P-17777	Stem—Choke	
	43	P 17759	Air Horn	
	43 A	P 22940	Assy —Air Horn and Valve	
	44	*P 22762	Assy —Main Body **1 5/16"** Vent Complete with **No. 70** H S Bleeder and Pump Dis Tubes	(VAR.)
	45	*P-22773	Assy —Throttle Body **No. 50-60** Idle Disch Holes **No. 56** Idle Air Bleeder	(VAR.)
		P 15411	Fast Idle Weight Lever Stop Pin	
		P-18389	Fast Idle Lever	
		P 18394	Fast Idle Lever Attaching Bushing	
	46	P-17524	Pump Lever	
	47	P-22530	Pump Rod	
	48	P 9394	Washer—Rod and Fast Idle Rod	
	49	P-17133	Washer—Rod Lever Fulcrum Screw Spring	
	50	P 16973	Screw—Rod Lever Fulcrum	
	51	P 17009	Washer—Rod Lever Fulcrum Screw	
	52	P 17442	Housing—Pump Lever	
	53	P-11531-L	Screw—Pump Lever Housing Attaching	

NOTE—For parts marked (VAR.) size must be specified when ordering.

Bin Location	Key No.	Part No.	Part Name	
	54	P 22710	Screw—Pump Lever Stop	
	55	P 19374	Cotter Pin—Pump Link	
	56	P-6406-L	Plug—Pump Disch Channel No 5/16-24	
	57	P-7098 L	Plug—Pump Channel No 8-32	
	58	P-17928 K	Vent—Float Chamber	
	59	P-17828-L	Cover—Float Chamber Vent	
	60	P 4712 L	Screw Chamber Vent Cover Attach	
	61	P-17063	Gasket—Float Fulcrum Screw	
	62	*P 15477 L	Idle Air Bleeder **No. 54**	(VAR.)
	63	P-6387 L	Plug—Idle Disch Holes No 10-32	
	64	P 15459-L	Plug -Idle Disch Drilling Hole 1/4"	
	65	P-15457-L	Plug—Idle Air Channel No 6	
	66	P 17599	Assy -Choke Balance Lever	
		P 17704 L	Choke Balance Lever	
		P 46-L	Choke Balance Lever Clamp Screw	
	67	P-18907	Assy -Choke Lever	
		P 17711-L	Choke Lever	
		P 18906-L	Choke Lever Clamp Screw	
		P-18299 L	Choke Lever Clamp Screw Nut	
	68	P-16161-L	Screw—Choke Stem Collar Set	
	69	P-17081-L	Collar -Choke Stem	
	70	P-4735-L	Washer -Choke Balance Lever Spacer	
	71	P-18390-L	Lever—Fast Idle Weight	
	72	P-17968-L	Screw—Fast Idle Weight Lever Fulcrum	
	73	P-17999-L	Washer—Fast Idle Weight Lever Fulc Screw	
	74	P-18391-L	Lever—Fast Idle Adjusting	
	75	P-2290-L	Nut—Fast Idle Adjusting Lever Attach	
	76	P-1791-L	Lockwasher—Fast Idle Adj Lever Attach Nut	
	77	P-17998-L	Screw—Fast Idle Adj Lever Adj	
	78	P-17812-L	Nut—Fast Idle Adj Lever Adj Screw	
	79	P-18111-L	Screw—Air Horn Attach	
	80	P 17773	Stud—Air Horn Attach	
	81	P-17774	Nut—Air Horn Attach Stud	
	82	P-7170	Cotter Pin—Pump Rod and Fast Idle Rod	
	83	P-22923-L	Rod—Fast Idle	
	84	P 1693	Lockwasher—Throttle Valve Attach Screw	
	85	P 3292-L	Plug—Decarbonizing Boss	
	86	P 20232	Tube—Pump Disch No 60	(NOT VAR.)
	87	P-19430	Wedge—Pump Disch Tube	
	88	P 22764	High Speed Bleeder **No. 70**	(VAR.)
	89	P-13619	Washer—By-Pass Jet	
	90	P-21639	Idle Air Reducer No 56 (Throt Body)	(NOT VAR.)

NOTE: When servicing or ordering parts for carburetors with code number "10-27" the following are parts exceptions:

Use **P-22395** Main Body in place of **P 22762** Main Body which has dome H S Bleeder
Use **P-20647** M Disch Jet in place of **P-22755**
Use **P-17007** Idle Tube in place of **P 22737**
Use **P-18363** Throttle Body in place of **P 22773**
Use **P-17004 .064** Met Jet in place of **P-17004 .067**
Use **P-16965 .060** By Pass in place of **P-16965 .070**
Use **P-15477 No. 48** Idle Air Bleed in place of **P 15477 No. 54**

These parts are not interchangeable and are complete assemblies.

South Bend **BENDIX PRODUCTS DIVISION** Indiana
Of Bendix Aviation Corporation

Printed in U S A

STROMBERG "EE-14" CARBURETOR

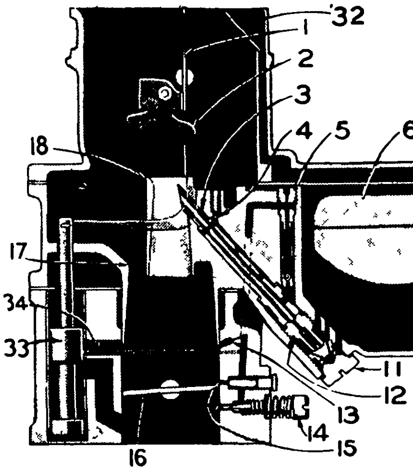
STROMBERG NO. A-18091 (CODE NO. 10-29C) PACKARD SYMBOL 316189

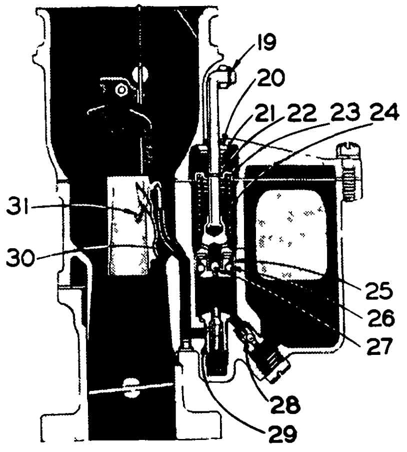
SIZE: 1" DUAL D. D. 4-HOLE FLANGE **REPLACE WITH EE-16 EQUIP. J-5413**

1937
PACKARD
MODEL
120-C
3¼"x4¼"—8 cyl.

PARTS ILLUSTRATED

1 Choke Valve
2 Vacuum Piston Link
3 Main Discharge Jet
4 High Speed Bleeder
5 Idle Tube
6 Float
7 Float Needle Valve
8 Float Needle Valve Seat
9 Gasoline Inlet
10 Float Fulcrum Pin
11 Main Discharge Jet Plug
12 Main Metering Jet
13 Idle Air Bleeder
14 Idle Needle Valve
15 Idle Discharge Holes
16 Throttle Valve
17 Primary Venturi
18 Auxiliary Venturi
19 Pump Piston Link
20 Dust Washer
21 Dust Washer Spring
22 Spring Retainer Lock
23 Spring Retainer Washer
24 Pump Duration Spring
25 Pump Piston
26 Pump Piston Expansion Spring
27 Pump Relief Valve
28 Pump Inlet Check Valve
29 Power By-Pass Jet
30 Pump Discharge Nozzle Holder
31 Pump Discharge Nozzle
32 Float Chamber Vent
33 Automatic Choke Piston
34 Fast Idle Air Passage





Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **15/32"** below top surface of float chamber (without gasket) at 3 lbs. pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level).

MAIN METERING SYSTEM—Venturi **1-1/32"**; Main Discharge Jet **No. 32-36** P-20853 **(Tool T-24967).** Use new P-20421 Lead Gasket assembled on lower shoulder of main discharge jet. High Speed Bleeder **No. 65** in body. Main Metering Jet **.047"** P-19442 **(Tool T-24924)**; Use **Tool T-19099** Screw Driver for removing main jet plug. Main metering system controls the flow of fuel up to approximately 65 to 70 M. P. H.

POWER SYSTEM—Combination Power and Pump By-Pass Jet **No. 63 P-19447.** The Power Jet is brought into action at approximately 65 to 70 M. P. H. Pump piston to rest on seat of by-pass jet (less over-travel) with throttle valve opened **21/64" + — 1/64"** drill (measure with shank end of **21/64"** drill); bend pump lever fulcrum arm at ball joint end to obtain correct setting

ACCELERATION—Pump Discharge Nozzles **No. 65** in main body; Pump capacity **11** to **15** c.c. per 10 fast strokes, and **17** to **21** c.c. per 10 slow strokes. Use **Tool T-24972.** Pump action takes place during acceleration period only.

IDLE SYSTEM—Idle Discharge holes **Nos. 54-60.** With throttle valve fully closed and **No. 60** drill in idle hole, edge of valve is located **.030" + — .004"** from **No. 60** drill; Idle Air Bleed **No. 44** in main body; Idle Tube **No. 55** P-23663. **Adjustment:** Adjust to smooth running, one barrel at a time, OUT to make richer and IN to make leaner; throttle at 7 to 8 M. P. H.

FLANGE GASKET—P-21990.

VACUUM SPARK CONTROL—With throttle fully closed and **No. 50** drill in spark hole, edge of valve is located **Flush + — .004"** from **No. 50** drill.

SPECIAL TOOLS REQUIRED—Use Packard complete Tool Kit **SER. 376:** T-24733 Float Adjusted Wrench; T-24967 Main Discharge Jet Remover; T-24924 Main Metering Jet Wrench; T-24970 By-Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burrette Gauge; T-24968 Handle; T-19099 Main Jet Plug Screw Driver.

MOTOR TUNE-UP DATA

SPARK PLUG—.028" to .030".
Clean and adjust at regular intervals.

DISTRIBUTOR—.017".
Breaker gap set .017".
Replace if necessary.

VALVES—Intake: .007".
Exhaust: .010". **Engine hot.**

IGNITION TIMING—Breaker contacts to open for No. 1 cylinder at 7° or 3½ graduations on flywheel before top dead center.

SERVICE RECOMMENDATION — Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

Printed in U S A

AUTOMATIC CHOKE CONTROL

GENERAL DESCRIPTION

In the Stromberg Model EE 14 carburetor the automatic choke control, with the exception of the thermostat unit, is built integral with the carburetor The thermostat is attached to the manifold where it absorbs heat from the exhaust gas to govern its tension The principles of operation are the same as previously used on Packard models, namely manifold vacuum, heat on a thermostat spring, and offset choke valve in the carburetor The vacuum piston is used to open the choke valve when the engine begins to fire It is directly connected to the choke valve while the thermostat spring is connected to the choke stem The fast idle feature is accomplished by internal channels supplying additional fuel below the throttle valve during the cranking and warming up periods Figs 1 to 4 show the automatic choke control and fast idle in the various stages of operation

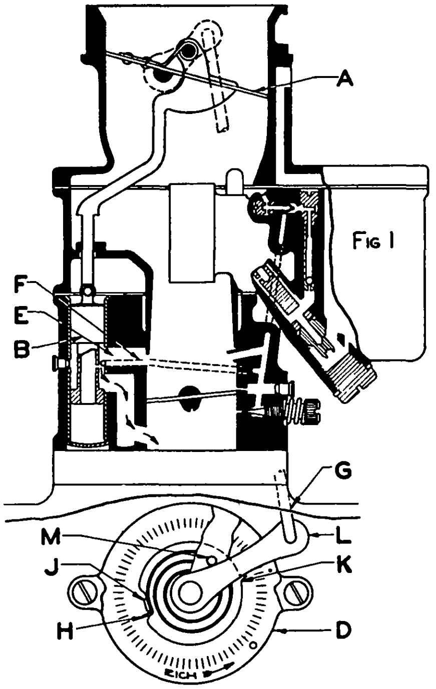


Fig 1

OPERATIONS AND ADJUSTMENTS

CHOKE CLOSED — FAST IDLE — COLD ENGINE

When the engine becomes cold the thermostat also cools and gradually gains sufficient tension to close the choke valve "A" With this action the vacuum piston "B", being directly connected to the choke valve, is raised to its upper position and opens fast idle passage "E" so that air is drawn through "E" during the cranking and fast idle periods The air flow through "E" draws fuel from passage "F" to supply an additional mixture for fast idle, the mixture following the path of the arrows While the engine is being cranked the choke valve and vacuum piston remain in the position as shown in Fig 1

ADJUSTING THERMOSTAT

To adjust the thermostat, it is necessary to remove the complete unit 'D' from the manifold

1 Allow the thermostat to cool or warm until it has the temperature of 70°
THIS IS VERY IMPORTANT

2 After it has reached 70° temperature unhook the thermostat spring "H" from prong "J" and revolve indicator point "K" to the zero marking on the thermostat plate In this position the hook of the thermostat should come flush with prong "J" of the indicator

3 Indicator pointer "K" should then be revolved to the prick punch marking which is 11 notches rich and is the original setting made at the factory If thermostat hook does not come flush against prong "J", when pointer "K' is at zero it will be necessary to re-calibrate the thermostat as follows

4 With lever "L" held against screw "M", revolve pointer "K" so that hook of the thermostat comes flush with prong "J" This will then place pointer "K" at a different position and will be the new zero location This should be stamped on the thermostat plate and the old marking obliterated

5 Hook the spring onto prong "J' and revolve pointer "K' 11 notches rich Fasten screw "M" securely

6 Re-install thermostat unit "D" in manifold and with choke valve "A" in closed position attach rod "G" to lever "L" holding lever against screw "M"

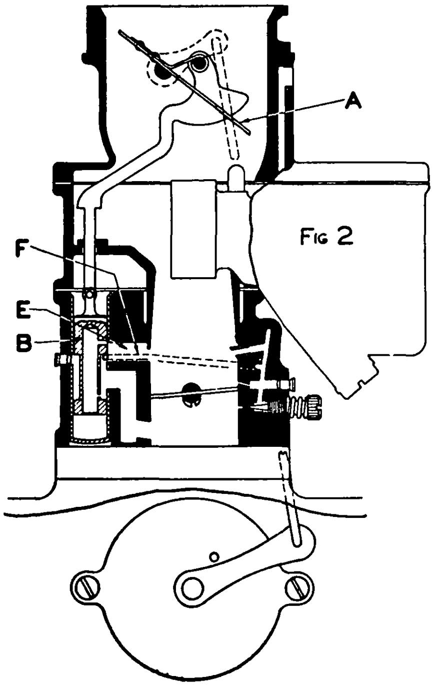


Fig 2

CHOKE PARTIALLY OPEN — ENGINE FIRING — FAST IDLE

When the engine begins to fire and manifold vacuum is created, vacuum piston "B" is pulled down and opens choke valve "A" to admit sufficient air for a running mixture Fig 2 The travel of the piston is stopped by the upper side hole in the piston being exposed to air taken through passage "E" thereby reducing the vacuum pull on the piston The mixture of air and fuel from passages ' E" and "F provide the fast idle feature

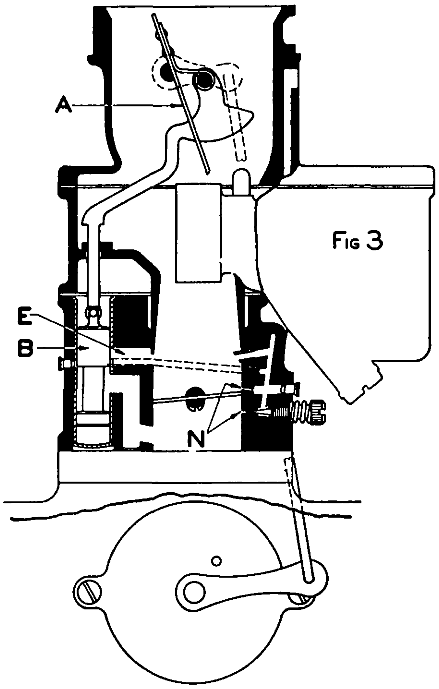


Fig 3

ENGINE WARM — SLOW IDLE

The choke valve in the carburetor being off center continues to open by the force of the inrushing air The amount of opening is controlled by the tension of the thermostat spring until the thermostat absorbs sufficient heat so that it will not offer any resistance As the choke valve "A" opens it allows the vacuum piston "B" to lower until the piston closes passages "E" and "F which eliminates the fast idle Fuel is then only taken through the regular idle discharge holes "N" Fig 3

CHOKE WIDE OPEN — SLOW IDLE

When engine reaches normal operating temperature the choke valve 'A will be in wide open position and engine at slow idle Fig 4 The throttle stop screw should be adjusted to a speed of 7 to 8 miles per hour This is the only adjustment that is necessary with relation to the idle speed of the engine

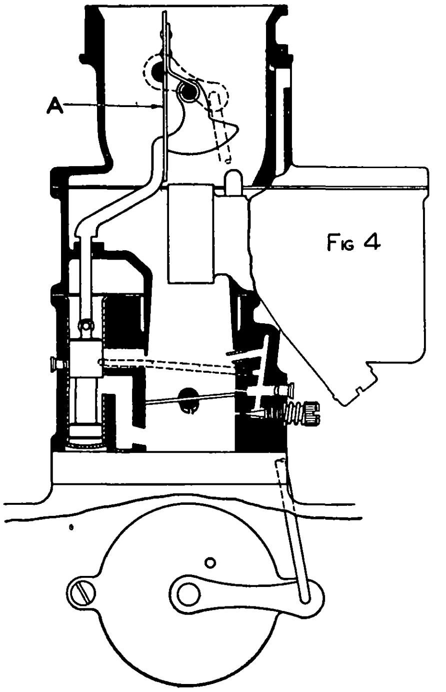


Fig 4

SERVICE ITEMS

For the satisfactory performance of any automatic choke control all parts MUST MOVE FREELY AND NOT BIND OR STICK in any position through the range of their travel When servicing the automatic choke control of the Model EE 14 carburetor there are several items that should receive attention If difficulty is experienced with starting or a visual inspection indicates binding of the parts the unit should be completely dis assembled and the parts checked in the following manner

Remove the carburetor from the manifold and dis assemble the throttle body from the main body This permits disconnecting vacuum piston from the choke link Remove choke valve and link assembly from air horn being careful not to lose dust washer Remove lever fulcrum pin and assemble a **No. 19** drill (166) in place of it as illustrated in Fig 5 The drill in the lever is a means of checking the position of the hole in the lever in relation to the choke valve The hole being the fulcrum point of the choke link it is very essential that it is in exact center position and also parallel to the surface of the valve as shown in Figs 5 and 6 The lever can be bent or twisted when required for proper positioning so that the choke link is at right angles to the valve A new pin P 22579 should then be assembled into the lever care being taken when doing this so that the yoke part of the lever is not spread or distorted to cause a loose fit

The next operation is to remove the plug from the bottom of the vacuum cylinder with a wood dowel which permits thorough cleaning of the cylinder wall Clean alcohol, benzol, or gasoline should be used to remove any film that may be present The vacuum piston should likewise be cleaned in the same manner

CAUTION NOTE: DO NOT USE OIL OR ANY LUBRICANT ON PISTON OR IN CYLINDER, AS IT MAY CONGEAL AND HINDER FREE MOVEMENT A new plug, P 20782, should then be assembled at the bottom of the vacuum cylinder Use the ball-peen end of a machinist s hammer to assemble the plug, but do not exert excessive force

Place dust washer on choke link with rounded edge down and in position to conform with the main body contour Vacuum piston should then be connected to choke link with the bleeder hole in the side of the piston toward the barrel of the carburetor A new, P-20973, cotter pin should be used and the ends formed snugly around the piston stem

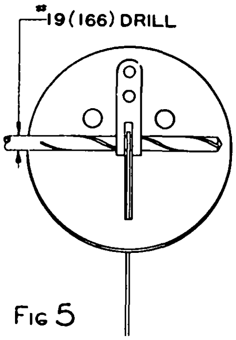


Fig 5

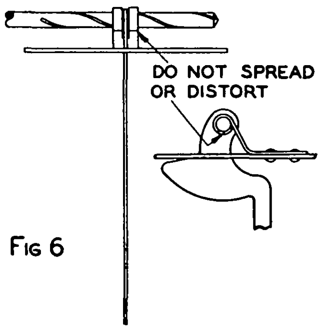


Fig 6

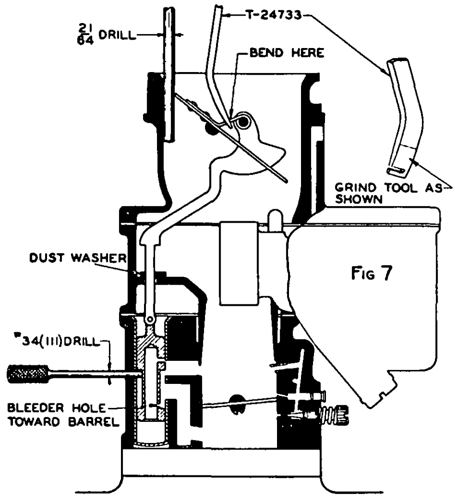
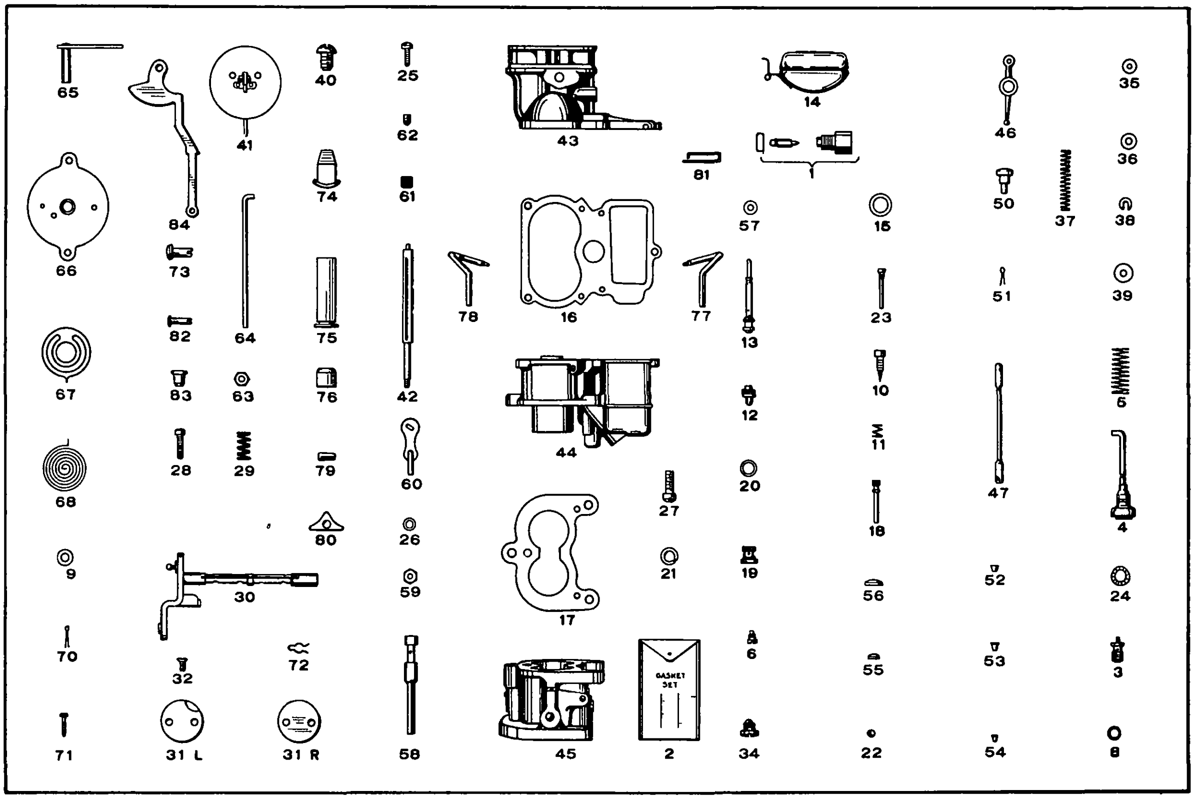


Fig 7

The throttle body main body and air horn should then be assembled together Hold choke valve closed centering it in the air horn and fasten screws lightly Open and close choke valve several times to make certain that the choke link does not bind or wobble Fasten screws securely and with heavy pliers upset the ends of the screws to lock them in place

Referring to Fig 7 the pull of the vacuum piston should be checked by placing the shank of a NEW **No. 34** (111) drill in the gauge hole The choke valve should then be opened until the piston comes to rest on the **No. 34** drill In this position the choke valve should be opened so that a **21/64"** drill can be placed between the valve and the air horn as illustrated If the amount of opening is not correct it can be changed by bending the lever at the point indicated T 24733 tool can be ground to fit the lever and used to adjust it for correct opening

On the later production carburetor namely A 18161 P 23476 dust washer was used When servicing the older units such as A-18091, this dust washer should be added to the choke link For carburetor A 17701 use P 23106 dust washer



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No.	Part N .	Part Name	
	1	P 22089	Float Needle Val & Seat & Clip 101	(NOT VAR)
	2	J 4540 G	Complete Gasket Set	
	3	P 19447	Power By Pass Jet No 63	(NOT VAR)
	4	P 20775	Pump Piston and Link **(Includes P 16960)**	
	4 A	P 20879	Pump Piston Link and Spring (Complete)	
	5	P 19458	Spring—Pump Duration	
	6	P 18144	Pump Inlet Check Valve	
	8	P 19448	Gasket—By Pass Jet	
	10	P 15478	Idle Needle Valve	
	11	P 15481	Spring—Idle Needle Valve	
	12	P 19442	Metering Jet — **047"**	(VAR)
	13	P 20853	Main Discharge Jet No 32 36	(NOT VAR)
	14	P 22081	Float and Lever	
	15	P 10666	Gasket—Float Needle Valve Seat	
	16	P 19428	Gasket—Air Horn	
	17	P 20828	Gasket—Main Body	
	*18	*P 23663	Idle Tube	
	19	P 20447	Plug—Main Discharge Jet No 3/8 24	
	20	P 7338	Gasket—Main Discharge Jet Plug and Check Valve Plug	
	21	P 3157	Lockwasher—Main Body Attaching Screw	
	22	P 18772	Lead Ball	
	23	P 18125	Screw—Float Lever Fulcrum	
	24	P 16960	Spring—Pump Piston Leather Expansion	
	25	P 3199	Screw Air Horn Attaching	
	26	P 1791	Lockwasher—Air Horn Attaching Screw and Choke Lever Attaching Nut	
	27	P 709	Screw—Main Body Attaching	
	28	P 15456	Screw—Throttle Stop	
	29	P 15831	Spring —Throttle Stop Screw	
	30	P 22583	Throttle Lever and Stem	
		P 19509	Ball Connector	
	31 L	P 22735	Throttle Valve (5°) (Left)	(NOT VAR)
	31 R	P 20874	Throttle Valve (5°) (Right)	(NOT VAR)
	32	P 4522	Screw—Throttle Valve Attaching	
	34	P 19716	Plug—Check Valve	
	35	P 17380	Washer—Felt	
	36	P 17060	Splash Washer—Pump Link	
	37	P 17759	Spring Packing Retainer	
	38	P 22045	Washer—Cup	
	39	P 22046	Washer—Spring Retainer	
	40	P 22573	Screw —Choke Valve Attaching	
	41	P 22585	Choke Valve	
	42	P 22588	Choke Stem	
	43	P 22599	Air Horn	
	43 A	P 22597	Assembly—Air Horn and Valve	
	*44	*P 22944	Assembly—Main Body **1 1/32"** Venturi (Complete with **No 65** H S Bleeder and Pump Discharge Nozzles) No **44** Idle Air Bleed	(VAR)
	*45	*P 22947	Assembly—Throttle Body **No 54 60** Idle Disch Holes and **No 50** Spark Hole	(VAR)

NOTE—For parts marked (VAR) size must be specified when ordering

Bin Location	Key No	Part No	Part Name	
	*46	*P 22943	Pump Lever	
	47	P 19420	Pump Rod	
	50	P 20611	Screw—Pump Lever Fulcrum	
	51	P 7170	Cotter Pin—Pump Rod	
	52	P 20884	Plug—Vacuum Piston Channel 1/4	
	53	P 15458	Plug—Idle Discharge Holes No 10	
	54	P 15457	Plug—Vacuum Piston Channel No 6	
	55	P 21054	Plug Vacuum Piston Channel 17/64	
	56	P 20782	Plug—Vacuum Piston Channel 17/32	
	57	P 20421	Gasket—Main Discharge Jet—Lead	
	58	P 22586	Vacuum Piston	
	59	P 2290	Nut—Choke Lever Lock	
	60	P 22598	Choke Lever	
		P 19575	Ball Joint	
	61	P 20766	Bearing—Choke Stem Screw	
	62	P 15287	Set Screw—Choke Stem Screw Bearing	
	63	P 19587	Nut—Choke Rod Adjusting	
	64	P 20852	Choke Rod	
	65	P 20254	Thermostat Lever and Stem	
	66	P 22580	Thermostat Cover and Bushing	
	67	P 20834	Thermostat Bracket	
	68	P 22582	Thermostat	
	68 A	P 22564	Assembly —Thermostat (Complete)	
	69	P 16426	Washer—Thermostat	
	70	P 4	Cotter Pin —Thermostat Washer	
	71	P 20618	Screw Bracket Adjusting	
	72	P 21338	Cotter Pin—Thermostat Stem	
	•73	P 22579	Pin—Fulcrum—Vacuum Piston Lever	
	74	P 23694	Plug—Float Chamber Vent	
	75	P 20767	Bushing Choke Stem	
	76	P 20768	Bushing—Choke Stem Bearing	
	77	P 20435	Pump Discharge Tube (Right) No 65	(NOT VAR)
	78	P 20436	Pump Discharge Tube (left) No 65	(NOT VAR)
	79	P 19430	Wedge —Pump Tube	
	80	P 23476	Cover—Vacuum Piston Link Channel	
	81	P 21977	Clip—Float Needle Valve	
	82	P 20973	Rivet—Vacuum Piston	
	83	P 15459	Plug—Vacuum Spark Control	
	84	P 22577	Vacuum Piston Lever	

*Note—When servicing or ordering parts for the above carburetor with code number 10 29 or 10 29A these parts exceptions are necessary

Use P 22800 Throttle Body with No 54 58 Idle Discharge Holes and No 56 Idle Air Bleeder in place of P 22947 Throttle Body with No 54 60 Idle Holes and Idle Air Bleeder omitted

P 21639 No 56 Idle Air Bleeder

Use P 21609 Main Body in place of P 22944 Main Body which has Idle Air Bleeder drilled in casting

Use P 21794 Idle Tube in place of P 23663

Use P 19533 Pump Lever in place of P 22943

BENDIX PRODUCTS DIVISION
SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

Printed in U S A

STROMBERG "EE-14" CARBURETOR

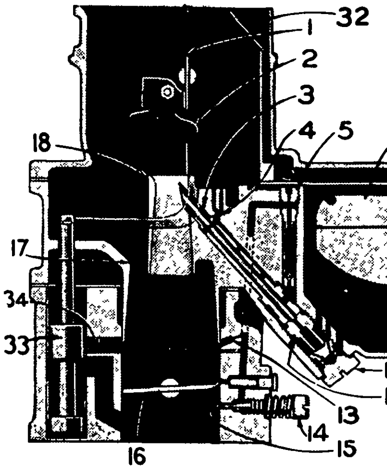
STROMBERG NO. A-18051 (CODE 10-24C) PACKARD SYMBOL 304531

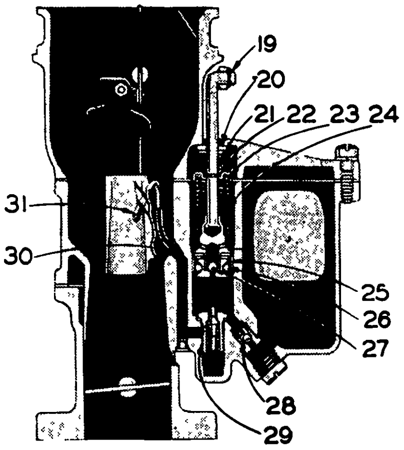
SIZE: 1" DUAL D. D. 4-HOLE FLANGE **REPLACE WITH EE-16 EQUIP. J-5413**

1936
PACKARD
MODEL
"120-B"
3¼"x4¼"—8 cyl.

PARTS ILLUSTRATED

1. Choke Valve
2. Vacuum Piston Link
3. Main Discharge Jet
4. High Speed Bleeder
5. Idle Tube
6. Float
7. Float Needle Valve
8. Float Needle Valve Seat
9. Gasoline Inlet
10. Float Fulcrum Pin
11. Main Discharge Jet Plug
12. Main Metering Jet
13. Idle Air Bleeder
14. Idle Needle Valve
15. Idle Discharge Holes
16. Throttle Valve
17. Primary Venturi
18. Auxiliary Venturi
19. Pump Piston Link
20. Dust Washer
21. Dust Washer Spring
22. Spring Retainer Lock
23. Spring Retainer Washer
24. Pump Duration Spring
25. Pump Piston
26. Pump Piston Expansion Spring
27. Pump Relief Valve
28. Pump Inlet Check Valve





29. Power By-Pass Jet
30. Pump Discharge Nozzle Holder
31. Pump Discharge Nozzle
32. Float Chamber Vent
33. Automatic Choke Piston
34. Fast Idle Air Passage

Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **15/32"** below top surface of float chamber (without gasket) at 3 lbs. pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level).

MAIN METERING SYSTEM—Venturi **1-1/32";** Main Discharge Jet **No. 32-36** P-20853 **(Tool T-24967).** (Use new Lead Gasket P-24021 assembled on lower shoulder of main discharge jet.) High Speed Bleeder **No. 65** in body. Main Metering Jet **.048"** P-19442 **(Tool T-24924);** Use **Tool T-19099** Screw Driver for removing main jet plug. Main metering system controls the flow of fuel up to approximately 65 to 70 M. P. H.

POWER SYSTEM—Combination Power and Pump By-Pass Jet **No. 60** P-20752. The Power Jet is brought into action at approximately 65 to 70 M. P. H. Pump piston to rest on seat of by-pass jet (less over-travel) with throttle valve opened **21/64" + — 1/64"** drill (measure with shank end of **21/64"** drill); bend pump lever fulcrum arm at ball joint end to obtain correct setting.

ACCELERATION—Pump Discharge Nozzles **No. 65** (in main body); Pump capacity **11** to **15** c.c. per 10 fast strokes, and **17** to **21** c.c. per 10 slow strokes. Use **Tool T-24972.** Pump action takes place during acceleration period only.

IDLE SYSTEM—Idle Discharge holes **Nos. 54-58.** With throttle valve fully closed and **No. 58** drill in idle hole, edge of valve is located **.020" + — .004"** from **No. 58** drill; Idle Air Bleed **No. 56** (in throttle body) P-21639; **No. 65** in idle tube; Idle Tube **No. 55** P-21794. **Adjustment:** Adjust to smooth running, one barrel at a time, OUT to make richer and IN to make leaner; throttle at 7 to 8 M. P. H.

FLANGE GASKET—P-21990.

SPECIAL TOOLS REQUIRED—Use Packard complete Tool Kit **SER. 376;** T-24733 Float Adjuster; T-24967 Main Discharge Jet Remover; T-24924 Main Metering Jet Wrench; T-24970 By-Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burrette Gauge; T-24968 Handle; T-19099 Main Jet Plug Screw Driver.

MOTOR TUNE-UP DATA

SPARK PLUG—.028".
Clean and adjust at regular intervals.

DISTRIBUTOR—.020".
Breaker gap set .020".
Replace if necessary.

VALVES—Intake: .007".
Exhaust: .010". **Engine hot.**

SERVICE RECOMMENDATION — Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

IGNITION TIMING—Breaker contacts to open 7° before top dead center, when timing mark on flywheel is in line with pointer on flywheel housing.

AUTOMATIC CHOKE CONTROL

GENERAL DESCRIPTION

In the Stromberg Model EE-14 carburetor the automatic choke control, with the exception of the thermostat unit, is built integral with the carburetor The thermostat is attached to the manifold where it absorbs heat from the exhaust gas to govern its tension The principles of operation are the same as previously used on Packard models namely manifold vacuum, heat on a thermostat spring and offset choke valve in the carburetor The vacuum piston is used to open the choke valve when the engine begins to fire It is directly connected to the choke valve while the thermostat spring is connected to the choke stem The fast idle feature is accomplished by internal channels supplying additional fuel below the throttle valve during the cranking and warming up periods Figs 1 to 4 show the automatic choke control and fast idle in the various stages of operation

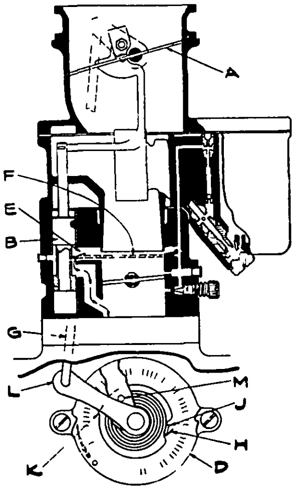


FIG. 1

OPERATIONS AND ADJUSTMENTS

CHOKE CLOSED—FAST IDLE—COLD ENGINE

When the engine becomes cold the thermostat also cools and gradually gains sufficient tension to close the choke valve "A' With this action the vacuum piston "B", being directly connected to the choke valve is raised to its upper position and opens fast idle passage "E' so that air is drawn through 'E' during the cranking and fast idle periods The air flow through 'E" draws fuel from passage "F" to supply an additional mixture for fast idle, the mixture following the path of the arrows While the engine is being cranked the choke valve and vacuum piston remain in the position as shown in Fig 1

ADJUSTING THERMOSTAT

To adjust the thermostat it is necessary to remove the complete unit 'D" from the manifold

1 Allow the thermostat to cool or warm until it has the temperature of 70°
THIS IS VERY IMPORTANT.

2 After it has reached 70° temperature, unhook the thermostat spring "H" from prong "J' and revolve indicator point "K' to the zero marking on the thermostat plate In this position the hook of the thermostat should come flush with prong "J" of the indicator

3 Indicator pointer "K" should then be revolved to the prick punch marking which is 10 notches rich and is the original setting made at the factory If thermostat hook does not come flush against prong "J", when pointer "K' is at zero it will be necesray to re-calibrate the thermostat as follows

4 With lever "L" held against screw "M" revolve pointer 'K" so that hook of the thermostat comes flush with prong "J" This will then place pointer "K" at a different position and will be the new zero location This should be stamped on the thermostat plate and the old marking obliterated

5 Hook the spring onto prong "J" and revolve pointer "K' 10 notches rich Fasten screw 'M" securely

6 Re install thermostat unit "D' in manifold and with choke valve "A in closed position attach rod "G to lever "L", holding lever against screw "M'

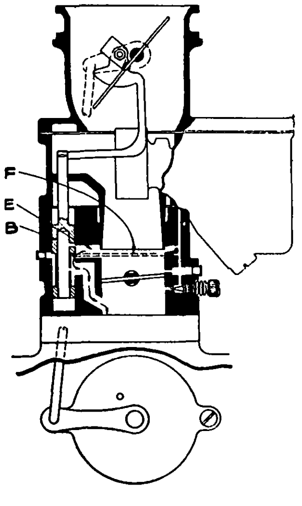


FIG. 2

CHOKE PARTIALLY OPEN—ENGINE FIRING—FAST IDLE

When the engine begins to fire and manifold vacuum is created, vacuum piston "B" is pulled down and opens choke valve "A' to admit sufficient air for a running mixture Fig 2 The travel of the piston is stopped by the upper side hole in the piston being exposed to air taken through passage "E", thereby reducing the vacuum pull on the piston The mixture of air and fuel from passages "E" and "F" provide the fast idle feature

ENGINE WARM—SLOW IDLE

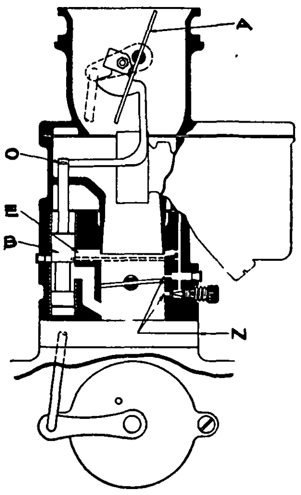


FIG. 3

The choke valve in the carburetor being off center continues to open by the force of the inrushing air. The amount of opening is controlled by the tension of the thermostat spring until the thermostat absorbs sufficient heat so that it will not offer any resistance. As the choke valve "A" opens it allows the vacuum piston "B" to lower until the piston closes passages "E" and "F" which eliminates the fast idle. Fuel is then only taken through the regular idle discharge holes "N". Fig. 3.

CHOKE WIDE OPEN—SLOW IDLE

When engine reaches normal operating temperature the choke valve "A" will be in wide open position and engine at slow idle. Fig. 4. The throttle stop screw should be adjusted to a speed of 7 to 8 miles per hour. This is the only adjustment that is necessary with relation to the idle speed of the engine.

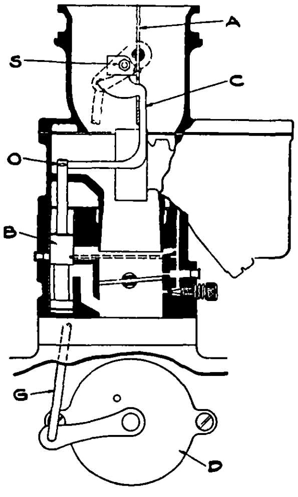


FIG. 4

SERVICE ITEMS

For the satisfactory performance of any automatic choke control all parts MUST MOVE FREELY AND NOT BIND OR STICK in any position through the range of their travel. When servicing the automatic choke control of the Model EE-14 carburetor, there are several items that should receive attention. If difficulty is experienced with starting or a visual inspection indicates binding of the parts, the unit should be completely dis-assembled and the parts checked in the following manner:

Remove the carburetor from the manifold and dis-assemble the throttle body from the main body. This permits disconnecting vacuum piston from the choke link. Remove choke valve and link assembly from air horn, being careful not to lose dust washer.

The next operation is to remove the plug from the bottom of the vacuum cylinder with a wood dowel which permits thorough cleaning of the cylinder wall. Clean alcohol, benzol, or gasoline should be used to remove any film that may be present. The vacuum piston should likewise be cleaned in the same manner.

CAUTION NOTE: DO NOT USE OIL OR ANY LUBRICANT ON PISTON OR IN CYLINDER, AS IT MAY CONGEAL AND HINDER FREE MOVEMENT. A new plug, P-20782, should then be assembled at the bottom of the vacuum cylinder. Use the ball-peen end of a machinist's hammer to assemble the plug, but do not exert excessive force.

Place dust washer on choke link with rounded edge down and in position to conform with the main body contour. Vacuum piston should then be connected to choke link with the bleeder hole in the side of the piston toward the barrel of the carburetor A new, P-20973, cotter pin should be used and the ends formed snugly around the piston stem.

The throttle body, main body and air horn should then be assembled together. Hold choke valve closed, centering it in the air horn and fasten screws lightly. Open and close choke valve several times to make certain that the choke link does not bind or wobble. Fasten screws securely and with heavy pliers upset the ends of the screws to lock them in place.

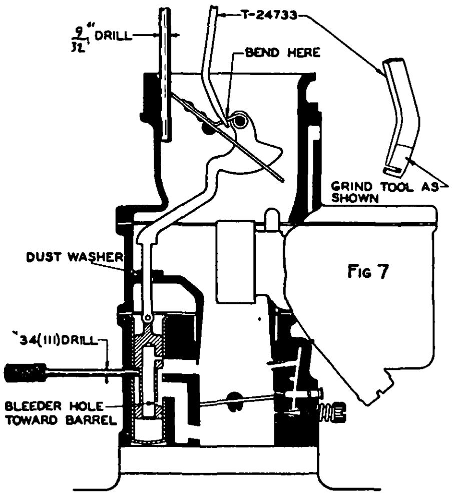
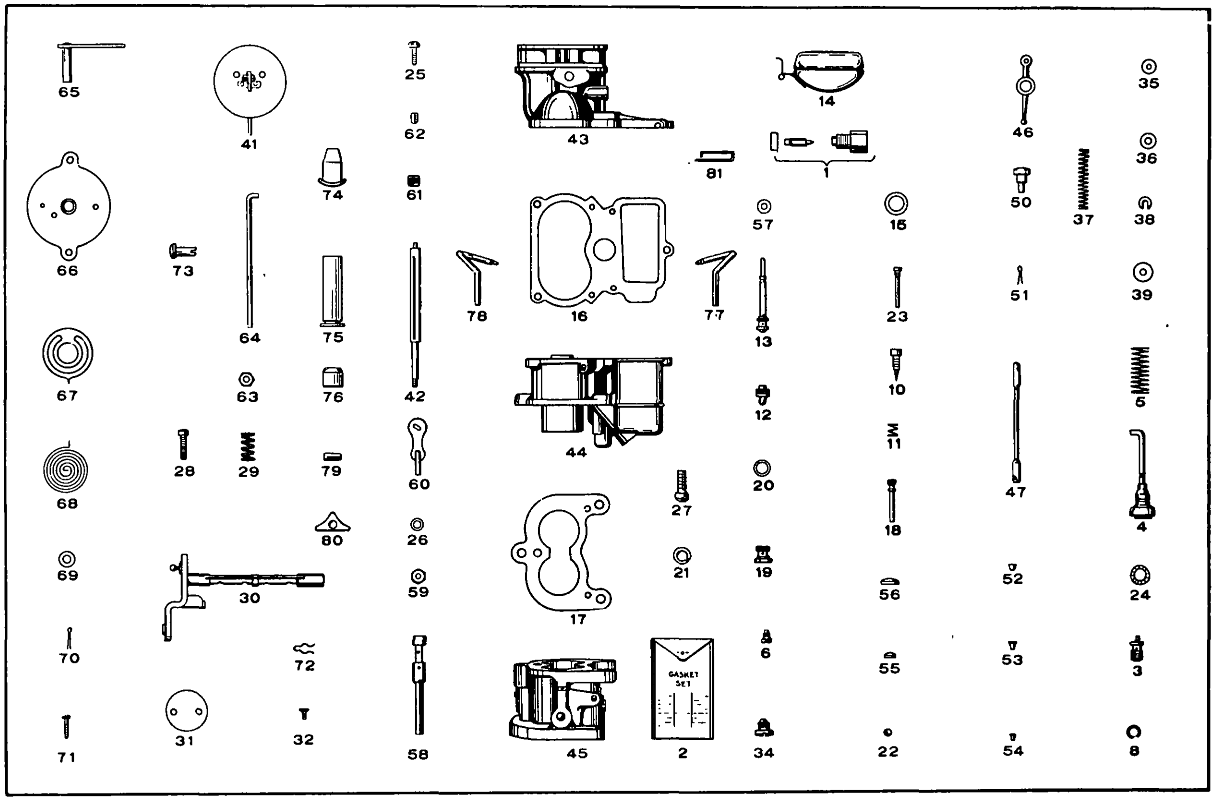


FIG. 5

Referring to Fig. 5 the pull of the vacuum piston should be checked by placing the shank of a NEW **No. 34 (.111")** drill in the gauge hole The choke valve should then be opened until the piston comes to rest on the **No. 34** drill. In this position the choke valve should be opened so that a **9/32"** drill can be placed between the valve and the air horn as illustrated. If the amount of opening **is** not correct, it can be changed by loosening choke link nut and making adjustment accordingly. (NOTE: The above illustration shows solid link type which is similar to that used on Graham models.)



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No.	Part No.	Part Name
	1	**P-22089**	Float Needle Valve, Clip & Seat .101" **(NOT VAR.)** (Use with P-22081 Float and Lever)
		P-19867	Float Needle Valve & Seat (Use with P-19825 Float and Lever)
		P-22389	Assy.—Float & Lever with Float Needle Valve, Seat and Clip
	2	**J-4540-G**	Complete Gasket Set
	3	**P-20752**	Power By-Pass Jet No. 60 **(NOT VAR.)**
	4	**P-20775**	Pump Piston and Link **(Includes P-16960)**
	4-A	**P-20879**	Pump Piston Link and Spring (Complete)
	5	**P-19458**	Spring—Pump Duration
	6	**P-18144**	Pump Inlet Check Valve
	8	**P-19448**	Gasket—By-Pass Jet
	10	**P-15478**	Idle Needle Valve
	11	**P-15481**	Spring—Idle Needle Valve
	12	**P-19442**	Metering Jet **.048"** **(VAR.)**
	13	**P-20853**	Main Discharge Jet No. 32-36 **(NOT VAR.)**
	14	**P-22081**	Float and Lever
	15	**P-10666**	Gasket—Float Needle Valve Seat
	16	**P-19428**	Gasket—Air Horn
	17	**P-20828**	Gasket--Main Body
	18	**P-21794**	Idle Tube
	19	**P-20447**	Plug—Main Discharge Jet (3/8-24)
	20	**P-7338**	Gasket—Main Discharge Jet Plug and Check Valve Plug
	21	**P-3157**	Lockwasher—Main Body Attaching Screw
	22	**P-18772**	Lead Ball
	23	**P-18125**	Screw—Float Lever Fulcrum
	24	**P-16960**	Spring—Pump Piston Leather Expansion
	25	**P-3199**	Screw—Air Horn Attaching
	26	**P-1791**	Lockwasher—Air Horn Attaching Screw and Choke Lever
	27	**P-709**	Screw—Main Body Attaching
	28	**P-15456**	Screw—Throttle Stop
	29	**P-15831**	Spring—Throttle Stop Screw
	30	**P-21602**	Throttle Lever and Stem
		P-19509	Ball—Connector
	31	**P-20874**	Throttle Valve (5°) **(NOT VAR.)**
	32	**P-4522**	Screw—Throttle Valve Attaching and Choke Valve Attaching
	34	**P-19716**	Plug--Check Valve
	35	**P-17380**	Washer—Felt
	36	**P-17060**	Splash Washer—Pump Link
	37	**P-19488**	Spring—Packing Retainer
	38	**P-22045**	Washer—Cup
	39	**P-22046**	Washer—Spring Retainer
	41	**P-20759**	Choke Valve (Complete)
		P-9283	Nut Fulcrum Screw
		P-20882	Screw—Vacuum Piston Link Fulcrum
		P-20883	Lockwasher—Vacuum Piston Link Screw
		P-20760	Link—Vacuum Piston
		P-21010	Choke Valve with Bracket
	42	**P-20763**	Choke Stem
	43	**P-20985**	Air Horn with Vent and Bushing
	43-A	**P-20756**	Assembly Air Horn and Valve
	44	**P-21609**	Assembly Main Body **1-1/32"** Venturi Complete with **No. 65** H. S. Bleeder—**No. 65** Pump Discharge Nozzles **(VAR.)**
	45	**P-22047**	Assembly—Throttle Body **No. 54-58** Idle Discharge Holes **No. 56** Idle Air Bleeder **(VAR.)**
		P-21639	Reducer—Idle Air No. 56 **(NOT VAR.)**
	46	**P-19533**	Pump Lever
	47	**P-19420**	Pump Rod
	50	**P-20611**	Screw—Pump Lever Fulcrum
	51	**P-7170**	Cotter Pin—Pump Rod
	52	**P-20884**	Plug—Vacuum Piston Channel—1/4"
	53	**P-15458**	Plug—Idle Discharge Holes No. 10
	54	**P-15457**	Plug—Vacuum Piston Channel No. 6
	55	**P-21054**	Plug—Vacuum Piston Channel—17/64"
	56	**P-20782**	Plug—Vacuum Piston Channel—17/32"
	57	**P-20421**	Gasket—Main Discharge Jet—Lead
	58	**P-20875**	Vacuum Piston
	59	**P-2290**	Nut—Choke Lever Lock
	60	**P-21600**	Choke Lever
		P-19575	Ball Joint
	61	**P-20766**	Bearing—Choke Stem Screw
	62	**P-15287**	Set Screw—Choke Stem Screw Bearing
	63	**P-19587**	Nut—Choke Rod Adjusting
	64	**P-20052**	Choke Rod
	65	**P-20254**	Thermostat Lever and Stem
	66	**P-21357**	Thermostat Cover and Bushing
	67	**P-20834**	Thermostat Bracket
	68	**P-22061**	Thermostat
	69	**P-16426**	Thermostat Washer
	70	**P-4**	Cotter Pin—Thermostat Washer
	71	**P-20618**	Screw—Bracket Adjusting
	72	**P-21338**	Cotter Pin—Thermostat Stem
	73	**P-20973**	Rivet—Vacuum Piston
	74	**P-21154**	Float Chamber Vent
	75	**P-20767**	Bushing—Choke Stem
	76	**P-20768**	Bushing—Choke Stem Bearing
	77	**P-20435**	Pump Discharge Tube (Right) No. 65 **(NOT VAR.)**
	78	**P-20436**	Pump Discharge Tube (Left) No. 65 **(NOT VAR.)**
	79	**P-19430**	Wedge—Pump Tube
	80	**P-23106**	Cover—Vacuum Piston Link Channel
	81	**P-21977**	Clip—Needle Valve

NOTE—For parts marked (VAR.) size must be specified when ordering.

BENDIX PRODUCTS DIVISION
SOUTH BEND **OF BENDIX AVIATION CORPORATION** **INDIANA**

Printed in U.S.A.

STROMBERG "EE-3" CARBURETOR

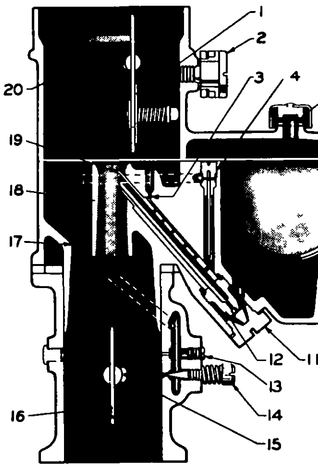
STROMBERG NO. A-17883 (CODE NO. 10-3A) PACKARD SYMBOL 219810

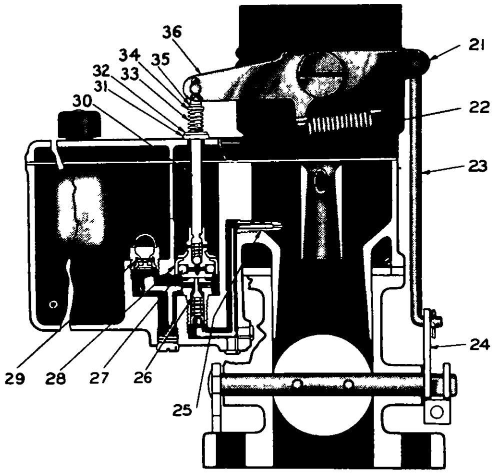
SIZE: 1½" DUAL D. D. 4-HOLE FLANGE

1935-36
PACKARD
MODEL
1207-1208
1407-1408
3-7/16"x4-1/4"—12 cyl.

PARTS ILLUSTRATED

1 Poppet Valve
2 Fulcrum Screw
3 High Speed Bleed
4 Idle Tube
5 Float Chamber Vent
6 Float
7 Float Needle Valve
8 Float Needle Valve Seat
9 Gasoline Inlet
10 Float Fulcrum Pin
11 Main Discharge Jet Plug
12 Main Metering Jet
13 Idle Discharge Plug
14 Idle Needle Valve
15 Idle Discharge Holes
16 Throttle Valve
17 Primary Venturi
18 Auxiliary Venturi
19 Main Discharge Jet
20 Choke Valve
21 Pump Lever Arm
22 Pump Arm Connecting Spring
23 Pump Rod
24 Pump Lever
25 Pump Discharge Nozzle
26 Power By Pass Jet
27 Pump Piston Spring
28 Pump Piston
29 Check Valve
30 Pump Piston Link
31 Felt Washer
32 Splash Washer
33 Spring
34 Retainer Washer
35 Cotter Pin
36 Pump Piston Arm





Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **9/16"** below top surface of float chamber (without gasket) at 3 lbs. pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level).

MAIN METERING SYSTEM—Venturi **1-5/16"**; Main Discharge Jet **No. 28** P-20647 **(Tool T-24967)**; High Speed Bleeder **No. 65** in body. Main Metering Jet **.060"** P-17004 **(Tool T-23844)**; Use **Tool T-25034** Socket for removing main jet plug. Main metering system controls the flow of fuel up to approximately 65 to 70 M. P. H.

POWER SYSTEM—Combination Power and Pump By-Pass Jet **No. .060"** P-16965 **(Tool T-20138).** The Power Jet is brought into action at approximately 65 to 70 M. P. H. Pump piston to rest on seat of by-pass jet (less over-travel) with throttle valve opened **7/32"** + — **1/64"** drill (maximum pump setting) (measure with shank end of **7/32"** drill); bend pump rod to obtain correct setting.

ACCELERATION—Pump Discharge Nozzles **No. 60** in main body; Pump capacity **22** to **24** c.c. per 10 strokes with pump rod link set in minimum setting. Use **Tool T-24972.** Pump action takes place during acceleration period only. Pump to be set at maximum setting.

IDLE SYSTEM—Idle Discharge holes **Nos. 56-58.** With throttle valve fully closed and **No. 58** drill in idle hole, edge of valve is located **.030"** + — **.004"** from **No. 58** drill; Idle Air Bleed **No. 44** P-15477; Idle Tube **No. 70** P-17007. **Adjustment:** Adjust to smooth running, one barrel at a time, OUT to make richer and IN to make leaner; throttle at 7 to 8 M. P. H.

FLANGE GASKET—P-16927.

SPECIAL TOOLS REQUIRED—Use Packard complete Tool Kit **SER-376**; T-24733 Float Adjuster Wrench; T-24967 Main Discharge Jet Remover; T-23844 Main Metering Jet Wrench; T-24970 By-Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burrette Gauge; T-24968 Handle; T-25034 Main Jet Plug Socket; T-23785 Check Valve Socket Wrench; T-20138 By-Pass Jet Socket Wrench; T-20140 Float Seat Socket Wrench.

MOTOR TUNE-UP DATA

SPARK PLUG—.025" to .028".
Clean and adjust at regular intervals.

DISTRIBUTOR—.018" to .020".
Breaker gap set .018" to .020".
Replace if necessary.

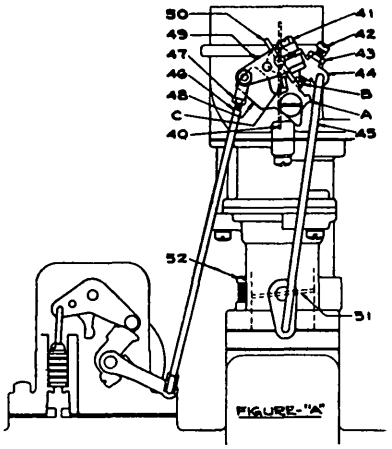
VALVES—Automatic take-up. No adjustment.

IGNITION TIMING—(Series 1207 & 8) Stationary contacts to open for No. 1R cylinder when mark, 8° before T. D. C. (.0256" piston position) on vibration damper lines up with pointer.
(Series 1407 & 8)—6° before T. D. C.

SERVICE RECOMMENDATION — Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

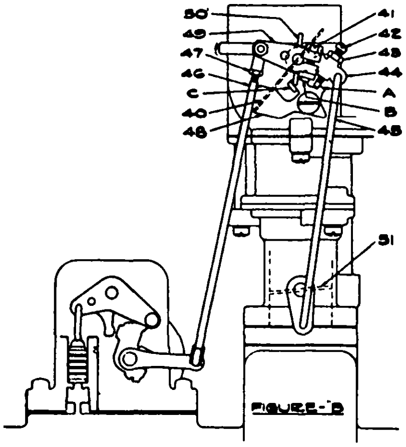
GENERAL DESCRIPTION OF "FAST IDLE" AND ITS ADJUSTMENTS

The purpose of the fast idle is to prevent the throttle valve from closing tightly while cranking the engine, and during the warming-up period. The following description and sketches show a typical installation in the various stages of operation.



Through a series of levers connected to the throttle valve, choke valve and the automatic choke control, the operation of the choke control assures the driver of an almost instantaneous start under any condition—hot or cold motor. Before proceeding let it be known and remembered that with either a **Hot or Cold Motor The Carburetor Choke Valve Does Not Close Tighly Until The Throttle Is Opened Equivalent To a 20-Mile Hour Speed.** The advantage and purpose of this will be understood from the following explanation and sketches.

When a hot motor is stopped and the throttle valve "51" is allowed to close, choke valve "40" is in wide open position as shown in Fig. "A". As the engine becomes cold, the thermostat tightens, partially closing the choke valve to a predetermined distance as shown in sketch "B", the throttle still being in closed position. The movement of pin "50" against ear "C" brings ear "A" into contact with the bottom of adjustment screw "42", which governs the amount.



To make a start, **Open Throttle To 20-Mile Hour Speed.** With this movement adjusting screw "42" is raised, releasing its hold on ear "A" and allowing choke valve "40" to snap shut as shown by the dotted lines in Fig. "C". As soon as the engine starts to fire, the choke valve partially opens as shown by the solid lines, which is done by manifold vacuum drawing down piston of choke control. Immediately on opening of the throttle the fast idle stop weight "48" shifts to the position as shown in Fig. "C".

When the throttle is closed after the start has been made, it is prevented from returning to slow idle position by the fast idle adjustment screw "42" riding on ear "A" of fast idle stop weight as shown in Fig "C" This adjustment is set at the factory for a car speed of 15 20 miles per hour with a hot motor, giving approximately, 12 M P H speed with a cold motor When readjusting with a hot motor it is necessary to hold fast idle stop weight "48" in the position as shown in Fig "C", having throttle closed and adjustment screw "42" riding on ear "A"

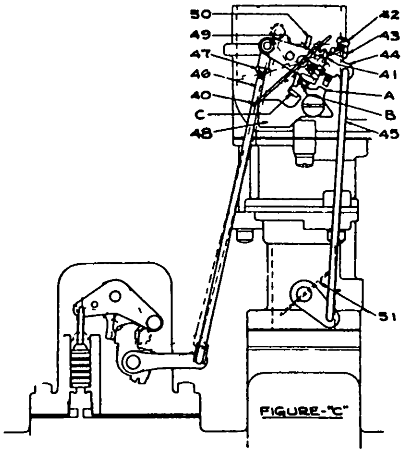


FIGURE-"C"

FAST IDLE ADJUSTMENT: Screw No 42 to be screwed "IN" 6¾ turns beyond point of contact on ear "A" with throttle valve fully closed and all slack taken out of linkage as illustrated in Fig "D"

After the motor has become warm the choke and fast idle will assume the position as shown originally in sketch "A".

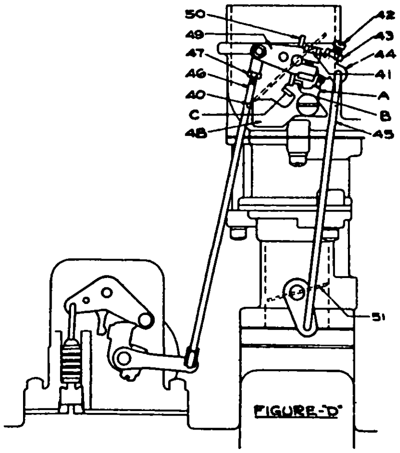


FIGURE-"D"

Should for any reason, the motor become loaded, it can be cleaned out by holding the accelerator in wide open position and allowing starter to turn over engine a few itmes In this position choke valve is opened approximately 40% as shown in Fig "D"

If for any reason the choke connecting rod "46" is removed and its length is changed it can be corrected by having the choke lever "49", 66° from horizontal with the valve in closed position Then adjust for correct length, placing ball joint in lever so that there is only 006" backlash, fasten all lock nuts securely.

The end play in the choke valve stem should be 003" on either side when the valve is in closed position, by placing a feeler gauge between the washers and the air horn

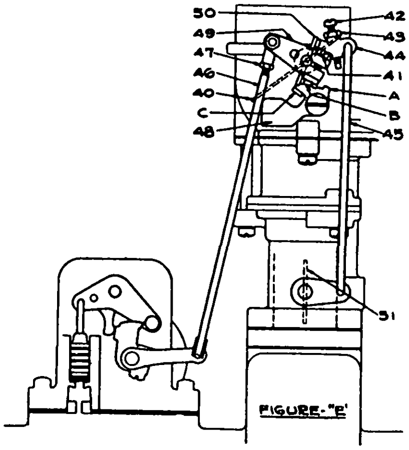
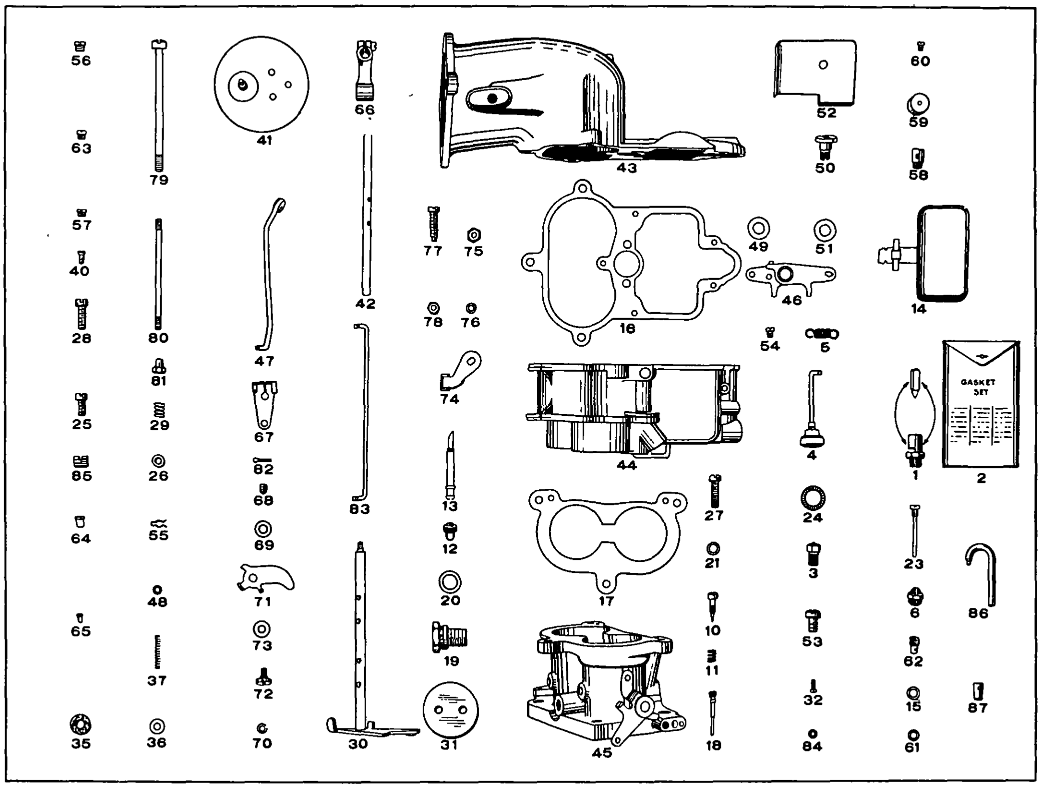


FIGURE-"E"

To assure smooth operation of the automatic choke control and the fast idle mechanism it is of vital importance that all ball joints, levers and moving parts operate freely and do not stick or bind in any position of their travel



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No.	Part No.	Part Name
	1	P-19548	Float Needle Valve Seat—.140" (NOT VAR.)
		P-17473	Float Needle Valve Clip
	2	J-4365-G	Complete Gasket Set
	3	P-16965	Power—By-Pass Jet .060" (VAR.)
	4	P-17448	Pump Piston and Link (Includes P-17450)
	5	P-18513	Spring—Pump Duration
	6	P-16990	Check Valve—Pump Inlet
	10	P-17891	Idle Needle Valve
	11	P-15481-L	Spring—Idle Needle Valve
	12	P-17004	Metering Jet .060" (VAR.)
	13	P-20647	Main Disch. Jet No. 28 (NOT VAR.)
	14	P-17464	Float with Lever
	15	P-11572	Gasket—Float Needle Valve Seat
	16	P-17394	Gasket—Air Horn
	17	P-17393	Gasket—Main Body
	18	P-17007	Idle Tube No. 70 (NOT VAR.)
	19	P-22476-L	Plug—Main Disch. Jet
	20	P-60308	Gasket—Main Disch. Jet Plug
	21	P-3157	Lockwasher—Main Body Attaching Screw
	23	P-17446-L	Screw—Fulcrum—Float Lever
	24	P-17450	Spring—Pump Piston Leather Expansion
	25	P-109-L	Screw—Air Horn Attach.
	26	P-6668-L	Lockwasher—Air Horn Attach. Screw
	27	P-15554-L	Screw—Main Body Attach.
	28	P-16586-L	Screw—Throttle Stop
	29	P-15831-L	Spring—Throttle Stop Screw
	30	P-18393	Throttle Lever and Stem
	31	P-17371	Throttle Valve (5°) (NOT VAR.)
	32	P-15259	Screw—Throttle Valve Attach.
	35	P-17380	Washer—Felt—Pump Link
	36	P-22856	Washer—Splash—Pump Link
	37	P-17753	Spring—Packing Retainer
	40	P-4522	Screw—Choke Valve Attach.
	41	P-18434	Choke Valve
	42	P-17777-L	Stem—Choke
	43	P-17759	Air Horn
	43-A	P-18409	Assy—Air Horn and Valve
	44	*P-22395	Main Body 1-5/16" Venturi No. 65 High Speed Bleeder No. 60 Pump Disch. (VAR.)
	45	P-18363	Throttle Body No. 56-58 Idle Holes (VAR.)
		P-18389-L	Fast Idle Lever
		P-18394-L	Fast Idle Lever Bushing
	46	P-17524	Pump Lever
	47	P-17439-L	Pump Rod
	48	P-9394	Washer—Pump Rod and Fast Idle Rod
	49	P-17133	Washer—Pump Lever Fulcrum Screw Spring
	50	P-16973	Screw—Pump Lever Fulcrum
	51	P-17009	Washer—Pump Fulcrum Screw
	52	P-17442	Housing—Pump Lever
	53	P-11531-L	Screw—Pump Lever Housing Attach.
	54	P-6970	Screw—Pump Lever Stop
	55	P-19374	Cotter Pin—Pump Link
	56	P-6406-L	Plug—Pump Disch. Channel—No. 5/16-24
	57	P-7098-L	Plug—Pump Channel No. 8-32
	58	P-17928-K	Vent—Float Chamber
	59	P-17828-L	Cap—Float Chamber Vent
	60	P-4712-L	Screw—Float Chamber Vent Cap Attach.
	61	P-17063	Gasket—Float Fulcrum Screw
	62	P-15477-L	Idle Air Bleeder No. 44 (VAR.)
	63	P-6387-L	Plug—Idle Disch. Holes—No. 10-32
	64	P-15459-L	Plug—Idle Disch. Drilling Hole—¼"
	65	P-15457-L	Plug—Idle Air Bleed Channel No. 6
	66	P-17599	Choke Balance Lever
		P-17704-L	Choke Balance Lever
		P-46-L	Choke Balance Lever Clamp Screw
	67	P-18907	Choke Lever
		P-17711-L	Choke Lever
		P-18906-L	Choke Lever Clamp Screw
		P-18299-L	Choke Lever Clamp Screw Nut
	68	P-16161	Screw—Choke Stem Collar Set
	69	P-17081	Collar—Choke Stem
	70	P-4735-L	Washer—Balance Lever Spacer
	71	P-18390-L	Lever—Fast Idle Weight
	72	P-17968-L	Screw—Fast Idle Weight Lever Fulcrum
	73	P-17999-L	Washer—Fast Idle Weight Lever Fulcrum Screw
	74	P-18391-L	Lever—Fast Idle—Adjusting
	75	P-2290-L	Nut—Fast Idle Adj. Lever Attach.
	76	P-1791-L,	Lockwasher—Fast Idle Adj. Lever Atttach. Nut
	77	P-17998-L	Screw—Fast Idle Adj. Lever Adj.
	78	P-17812-L	Nut—Fast Idle Weight Lever Adj. Screw
	79	P-18111-L	Screw—Air Horn Attach.
	80	P-17773	Stud—Air Horn Attach.
	81	P-17774-L	Nut—Air Horn Attach. Stud
	82	P-7170-L	Cotter Pin—Pump Rod and Fast Idle Rod
	83	P-18398-L	Rod—Fast Idle
	84	P-1693	Lockwasher—Throttle Valve Attach. Screw
	85	P-3292-L	Plug—Decarbonizing Boss
	86	P-20232	Pump Discharge Tube
	87	P-19430	Wedge—Pump Discharge Tube

NOTE—F r parts marked (VAR.) siz must be specified when ordering.

*NOTE: When servicing or ordering parts for the above carburetor with code No. "10-3" the following are parts exceptions.

Part No.	Part Name
P-17443	Main Body 1-5/16" Venturi No. 65 H. S. Bleeder
P-17769	Pump Disch. Tube No. 62
P-6202	Plug—Pump Disch. Channel No. 1/4-32

On carburetors with Code No. "10-3A" P-22395 Main Body (New Style) has Pump Disch. Tubes assembled in Body.

BENDIX PRODUCTS DIVISION
SOUTH BEND OF BENDIX AVIATION CORPORATION **INDIANA**

Printed in U. S. A.

STROMBERG MODEL "C" AUTOMATIC CHOKE

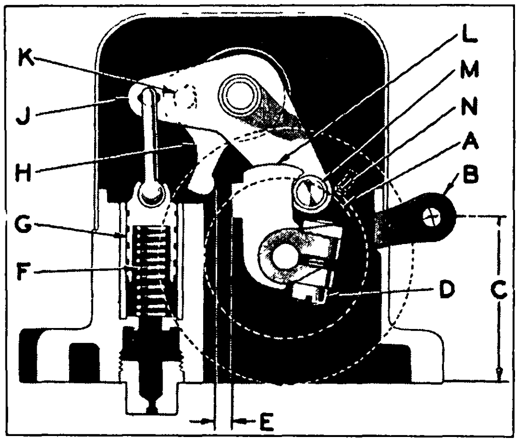
STROMBERG NO. A-17290 (CODE 10-9A) PACKARD SYMBOL 239471

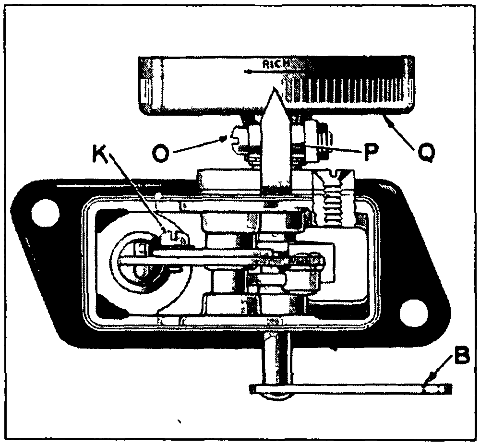
(FOR USE WITH PACKARD EE-3 CARBURETORS STROMBERG NOS. A-17883 AND A-17893)

1935-38
PACKARD
MODEL
1935—1207-8
1936—1407-8
1937—1506-7-8
1938—1606-7-8
3-7/16"x4-1/4"—12 cyl.

PARTS ILLUSTRATED

A	Thermostat
B	Control Lever
C	Distance between lever hole and base of choke (See instructions)
D	Cam Clamp Lever
E	Distance between lever and cam (See instructions)
F	Vacuum Piston Spring
G	Vacuum Piston
H	Kick Lever
J	Vacuum Piston Lever
K	Kick Lever Adj Screw
L	Locking Cam
M	Piston Lever Roller
N	Thermostat Case Prong
O	Case Clamp Screw
P	Pointer
Q	Thermostat Case





GENERAL DESCRIPTION

The Stromberg Automatic Choke Control is a device that eliminates all methods of hand operated chokes. Its operation is wholly governed by vacuum and heat of the engine, which makes it positive acting under any conditions. It acts quicker than any choke can be operated by hand and allows the carburetor choke valve to open the correct amount during the warming-up period of the engine.

PRINCIPLE OF OPERATION

The thermostat "A" returns the choke valve in the carburetor to closed position when the thermostat reaches a temperature of 70°. The choke valve is closed during the cranking of the engine and held so by the locking of roller "M" against cam "L". When the engine fires and a manifold vacuum is created, vacuum piston "G" is pulled partly down, unlocking cam "L" and roller "M". As soon as the engine fires steadily and an even vacuum is present, piston travels the remaining distance. Lever "H" then comes in contact with cam "L" opening the choke a pre-determined distance against the tension of thermostat spring. The distance between lever and cam is adjustable by screw "K". When the motor has reached a water temperature of 120°, the choke valve should be in wide open position.

ADJUSTMENTS

The choke is not a delicate instrument, but when servicing, it should be given the same consideration as any fine part of the engine.

For adjusting the Automatic Choke Control for any reason whatever, it can be quickly and accurately done by following very carefully the procedure outlined below:

1. Remove automatic choke from motor by disassembling the carburetor choke rod and attaching screws.

2. Under any conditions, the thermostat "A" should be allowed to cool or warm until it has reached a temperature of 70°. This is very important, and if the car has been running, it is necessary to allow the automatic choke to stand long enough to cool off, or on the other hand, if the place or garage where the choke is to be adjusted is colder than 70°, the choke should be taken into a room of normal temperature.

3. Remove housing cover and see that all working parts operate freely.

4. With roller "M" in locked position against first notch of cam "L", distance "C" should be 1-15/16"; if it is not so, it can be readjusted by loosening screw "D" and setting accordingly.

5. Distance "E" is set at the factory to a No. 10 drill with the cam in locked position. It can be readjusted by loosening screw "K" and set to the proper distance.

6. Unhook thermostat "A" from prong "N". Loosen clamp screw "O", and revolve thermostat case "Q" so that the zero marking is under the pointer. When in this position, the hook of the thermostat should be flush with the prong.

7. Place hook on prong and revolve case 16 graduations rich. Fasten clamp screw "O" securely.

8. Piston "G" should operate freely and show no signs of sticking in any position.

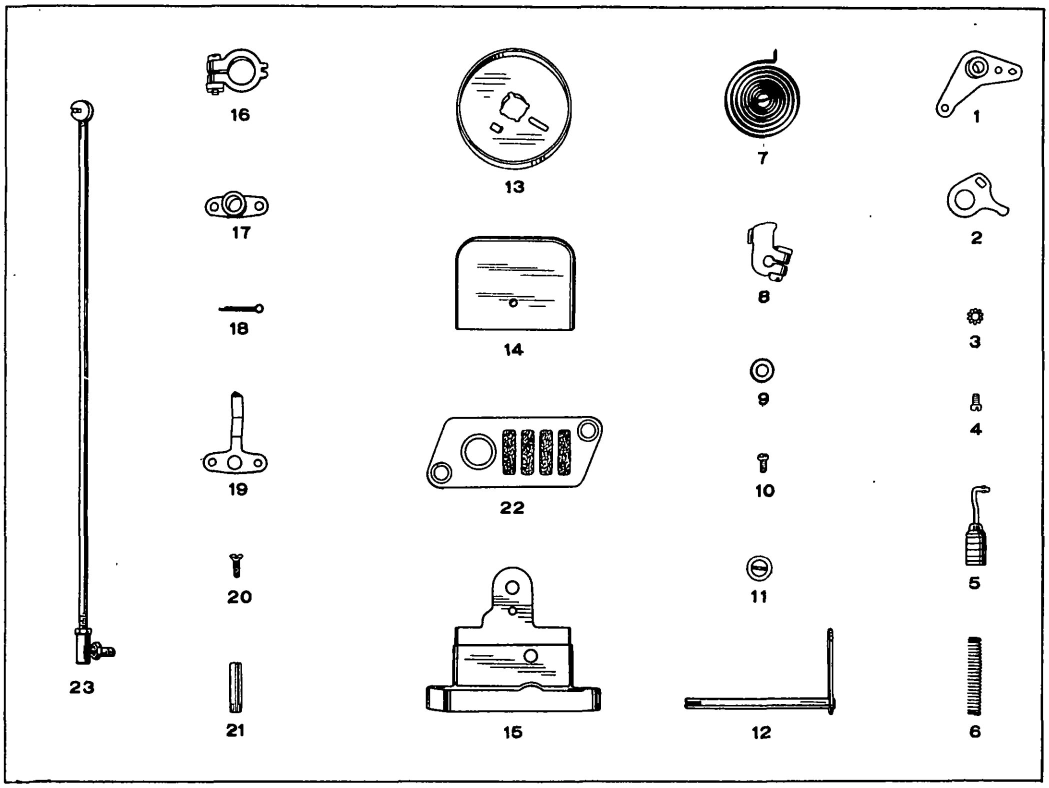
9 Assemble cover on body.

10. Assemble choke control on manifold making certain gasket is in good condition. Draw down bolts evenly.

11. Assemble connecting rod between choke control and carburetor so that there is only .006" backlash between levers. If it is necessary to adjust, loosen clamp screw of carburetor choke lever.

12. Assemble air cleaner so that it will not interfere with the carburetor choke lever.

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Key No.	Part No.	Part Name
1	P-17978	Lever—Vacuum Piston
2	P-17992	Lever—Kick
3	P-18043	Lockwasher—Kick Lever Set Screw
4	P-2369	Set Screw—Kick Lever
5	P-17976	Vacuum Piston and Link
6	P-18318	Spring—Vacuum Piston
7	P-22924	Thermostat
8	P-18310	Thermostat Cam
	P-18309	Cam
	P-18300	Screw—Cam Clamp
	P-18299	Nut—Cam Clamp Screw
9	P-16426	Washer—Thermostat Stem
10	P-2866	Screw—Thermostat Cover Attach.
11	P-18399	Bushing—Check Valve
12	P-18549	Lever and Stem—Thermostat
13	P-18426	Housing—Thermostat
14	P-18424	Cover—Thermostat
15	P-18425	Main Body
16	P-16893	Clamp—Thermostat Housing
	P-16894	Clamp
	P-9025	Clamp Screw
	P-4517	Nut—Clamp Screw
17	P-16824	Bracket—Thermostat Housing
18	P-4	Cotter Pin—Thermostat Stem
19	P-16829	Pointer—Thermostat Adj.
20	P-16887	Screw—Thermostat Bracket Attach.
21	P-17985	Stem—Vacuum Piston Lever

PARTS FURNISHED SEPARATE WHEN SPECIFIED ON ORDER

Key No.	Part No.	Part Name
22	P-19313	Gasket—Flange
23	P-18397	Choke Rod
	P-18396	Rod and Bushing
	P-17761	Ball Joint
	P-16639	Nut—Choke Rod Adj. Lock

NOTE—For parts marked (VAR.) size must be specified when ordering.

BENDIX PRODUCTS DIVISION
SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

STROMBERG "EE-14" CARBURETOR

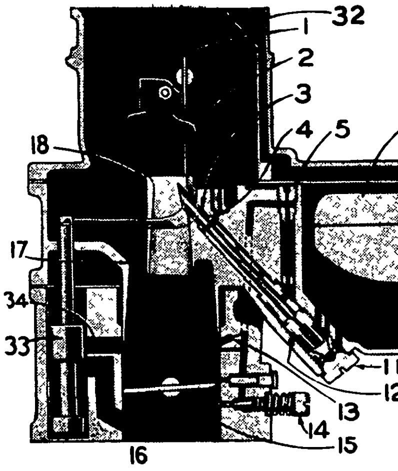
STROMBERG NO. A-17701 (CODE NO. 10-4F) PACKARD SYMBOL 302647

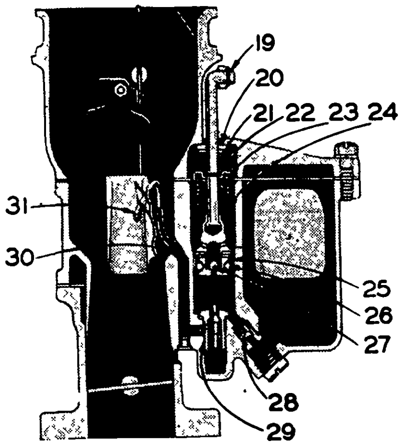
SIZE: 1" DUAL D. D. 4-HOLE FLANGE **REPLACE WITH EE-16 EQUIP. J-5413**

1935
PACKARD
MODEL
"120"
3¼"x3⅜"—8 cyl.

PARTS ILLUSTRATED

1. Choke Valve
2. Vacuum Piston Link
3. Main Discharge Jet
4. High Speed Bleeder
5. Idle Tube
6. Float
7. Float Needle Valve
8. Float Needle Valve Seat
9. Gasoline Inlet
10. Float Fulcrum Pin
11. Main Discharge Jet Plug
12. Main Metering Jet
13. Idle Air Bleeder
14. Idle Needle Valve
15. Idle Discharge Holes
16. Throttle Valve
17. Primary Venturi
18. Auxiliary Venturi
19. Pump Piston Link
20. Dust Washer
21. Dust Washer Spring
22. Spring Retainer Lock
23. Spring Retainer Washer
24. Pump Duration Spring
25. Pump Piston
26. Pump Piston Expansion Spring
27. Pump Relief Valve
28. Pump Inlet Check Valve
29. Power By-Pass Jet
30. Pump Discharge Nozzle Holder
31. Pump Discharge Nozzle
32. Float Chamber Vent
33. Automatic Choke Piston
34. Fast Idle Air Passage





Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **15/32"** below top surface of float chamber (without gasket) at 3 lbs. pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level).

MAIN METERING SYSTEM—Venturi **1-1/32";** Main Discharge Jet **No. 32-36** P-20853 **(Tool T-24967).** Use new Lead Gasket (P-20421) assembled on lower shoulder of main discharge jet; High Speed Bleeder **No. 65** in body. Main Metering Jet **.048"** P-19442 **(Tool T-24924);**Use **Tool T-19099** Screw Driver for removing main jet plug. Main metering system controls the flow of fuel up to approximately 65 to 70 M. P. H.

POWER SYSTEM—Combination Power and Pump By-Pass Jet **No. 62** P-20911. The Power Jet is brought into action at approximately 65 to 70 M. P. H. Pump piston to rest on seat of by-pass jet (less over-travel) with throttle valve opened **21/64" + — 1/64"** drill (measure with shank end of **21/64"** drill); bend pump lever fulcrum arm at ball joint end to obtain correct setting.

ACCELERATION—Pump Discharge Nozzles **No. 65** (in main body); Pump capacity **11** to **15** c.c. per 10 fast strokes, and **17** to **21** c.c. per 10 slow strokes. Use **Tool T-24972.** Pump action takes place during acceleration period only.

IDLE SYSTEM—Idle Discharge holes **Nos. 54-60.** With throttle valve fully closed and **No. 60** drill in idle hole, edge of valve is located **.030" + — .006"** from **No. 60** drill; Idle Air Bleed **No. 50** (in throttle body) P-20750; **No. 70** (in idle tube); Idle Tube **No. 55** P-20419. **Adjustment:** Adjust to smooth running, one barrel at a time, OUT to make richer and IN to make leaner; throttle at 7 to 8 M. P. H.

FLANGE GASKET—P-21990.

SPECIAL TOOLS REQUIRED—Use Packard complete Tool Kit **SER. 376;** T-24733 Float Adjuster; T-24967 Main Discharge Jet Remover; T-24924 Main Metering Jet Wrench; T-24970 By-Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burrette Gauge; T-24968 Handle; T-19099 Main Jet Plug Screw Driver.

SERVICE REPLACEMENT PARTS LIST

SPARK PLUG—.028" to .030".
Clean and adjust at regular intervals.

DISTRIBUTOR—.018" to .020".
Breaker gap set .018" to .020".
Replace if necessary.

SERVICE RECOMMENDATION — Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

IGNITION TIMING—Stationary breaker contacts to open 5° before top dead center, when timing mark (midpoint between second and third graduations to the right of line marked "1 UP D.C.") on flywheel is in line with pointer on flywheel housing. Place fuel compensator in "O" position for timing.

VALVES—Intake: .007".
Exhaust: .010". **Engine hot.**

AUTOMATIC CHOKE CONTROL

GENERAL DESCRIPTION

In the Stromberg Model EE 14 carburetor the automatic choke control, with the exception of the thermostat unit, is built integral with the carburetor The thermostat is attached to the manifold where it absorbs heat from the exhaust gas to govern its tension The principles of operation are the same as previously used on Packard models namely manifold vacuum heat on a thermostat spring, and offset choke valve in the carburetor The vacuum piston is used to open the choke valve when the engine begins to fire It is directly connected to the choke valve while the thermostat spring is connected to the choke stem The fast idle feature is accomplished by internal channels supplying additional fuel below the throttle valve during the cranking and warming up periods Figs 1 to 4 show the automatic choke control and fast idle in the various stages of operation.

OPERATIONS AND ADJUSTMENTS

CHOKE CLOSED—FAST IDLE—COLD ENGINE

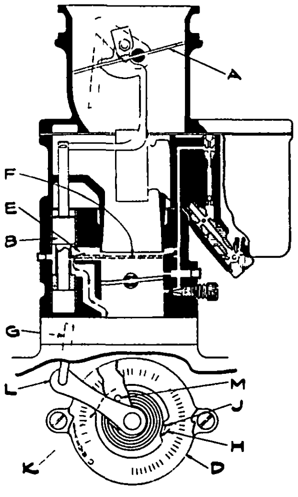


FIG. 1

When the engine becomes cold the thermostat also cools and gradually gains sufficient tension to close the choke valve "A' With this action the vacuum piston "B", being directly connected to the choke valve is raised to its upper position and opens fast idle passage "E" so that air is drawn through "E during the cranking and fast idle periods The air flow through 'E" draws fuel from passage "F" to supply an additional mixture for fast idle, the mixture following the path of the arrows While the engine is being cranked the choke valve and vacuum piston remain in the position as shown in Fig 1.

ADJUSTING THERMOSTAT

To adjust the thermostat, it is necessary to remove the complete unit "D" from th manifold.

1 Allow the thermostat to cool or warm until it has the temperature of 70°. **THIS IS VERY IMPORTANT.**

2 After it has reached 70° temperature, unhook the thermostat spring "H" from prong "J", and revolve indicator point 'K" to the zero marking on the thermostat plate In this position the hook of the thermostat should come flush with prong "J" of the indicator

3. Indicator pointer "K" should then be revolved to the prick punch marking which is 10 notches rich and is the original setting made at the factory If thermostat hook does not come flush against prong "J", when pointer "K" is at zero, it will be necesray to re-calibrate the thermostat as follows

4 With lever "L" held against screw "M" revolve pointer "K" so that hook of the thermostat comes flush with prong "J" This will then place pointer "K" at a different position and will be the new zero location This should be stamped on the thermostat plate and the old marking obliterated

5 Hook the spring onto prong "J" and revolve pointer "K" 10 notches rich Fasten screw "M" securely.

6 Re-install thermostat unit "D' in manifold and with choke valve "A" in closed position, attach rod "G" to lever "L", holding lever against screw "M'

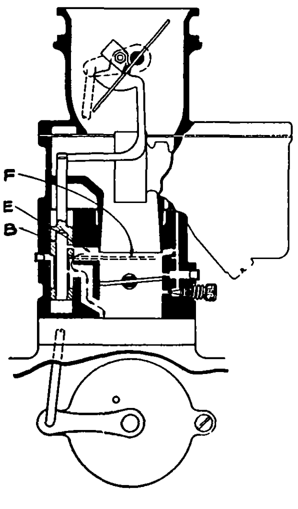


FIG. 2

CHOKE PARTIALLY OPEN—ENGINE FIRING—FAST IDLE

When the engine begins to fire and manifold vacuum is created, vacuum piston "B" is pulled down and opens choke valve 'A to admit sufficient air for a running mixture Fig 2 The travel of the piston is stopped by the upper side hole in the piston being exposed to air taken through passage ' E", thereby reducing the vacuum pull on the piston The mixture of air and fuel from passages "E" and "F" provide the fast idle feature

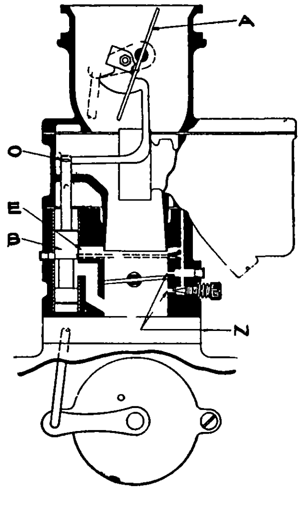


FIG. 3

ENGINE WARM—SLOW IDLE

The choke valve in the carburetor being off center continues to open by the force of the inrushing air The amount of opening is controlled by the tension of the thermostat spring until the thermostat absorbs sufficient heat so that it will not offer any resistance As the choke valve 'A opens it allows the vacuum piston "B" to lower until the piston closes passages "E' and 'F which eliminates the fast idle Fuel is then only taken through the regular idle discharge holes N Fig 3

CHOKE WIDE OPEN—SLOW IDLE

When engine reaches normal operating temperature the choke valve ' A" will be in wide open position and engine at slow idle Fig 4 The throttle stop screw should be adjusted to a speed of 7 to 8 miles per hour This is the only adjustment that is necessary with relation to the idle speed of the engine

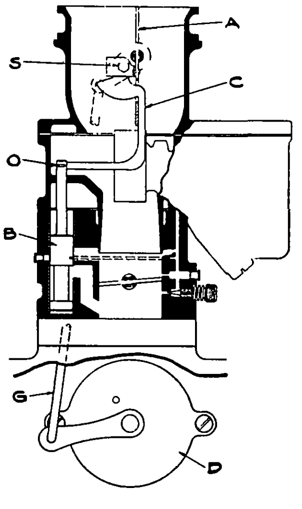


FIG. 4

SERVICE ITEMS

For the satisfactory performance of any automatic choke control all parts MUST MOVE FREELY AND NOT BIND OR STICK in any position through the range of their travel When servicing the automatic choke control of the Model EE-14 carburetor, there are several items that should receive attention If difficulty is experienced with starting or a visual inspection indicates binding of the parts the unit should be completely dis assembled and the parts checked in the following manner

Remove the carburetor from the manifold and dis-assemble the throttle body from the main body This permits disconnecting vacuum piston from the choke link Remove choke valve and link assembly from air horn being careful not to lose dust washer

The next operation is to remove the plug from the bottom of the vacuum cylinder with a wood dowel which permits thorough cleaning of the cylinder wall Clean alcohol, benzol, or gasoline should be used to remove any film that may be present The vacuum piston should likewise be cleaned in the same manner

CAUTION NOTE: DO NOT USE OIL OR ANY LUBRICANT ON PISTON OR IN CYLINDER AS IT MAY CONGEAL AND HINDER FREE MOVEMENT A new plug P 20782, should then be assembled at the bottom of the vacuum cylinder Use the ball peen end of a machinist s hammer to assemble the plug but do not exert excessive force

Place dust washer on choke link with rounded edge down and in position to conform with the main body contour Vacuum piston should then be connected to choke link with the bleeder hole in the side of the piston toward the barrel of the carburetor A new, P 20973 cotter pin should be used and the ends formed snugly around the piston stem

The throttle body main body and air horn should then be assembled together Hold choke valve closed centering it in the air horn and fasten screws lightly Open and close choke valve several times to make certain that the choke link does not bind or wobble Fasten screws securely and with heavy pliers upset the ends of the screws to lock them in place

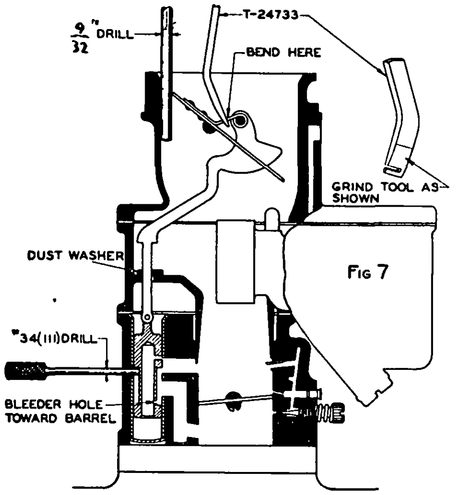
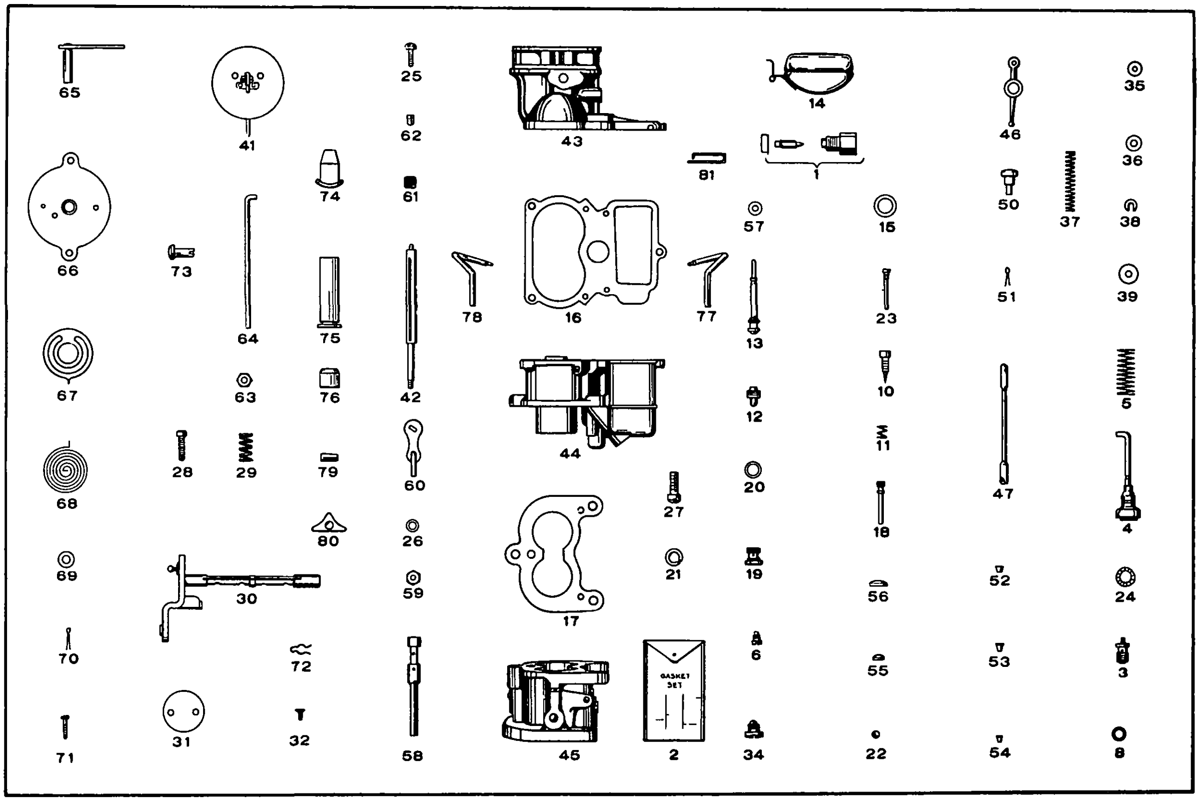


FIG. 5

Referring to Fig 5 the pull of the vacuum piston should be checked by placing the shank of a NEW **N . 34 (.111")** drill in the gauge hole The choke valve should then be opened until the piston comes to rest on the **N . 34** drill In this position the choke valve should be opened so that a **9/32"** drill can be placed between the valve and the air horn as illustrated If the amount of opening is not correct, it can be changed by loosening choke link nut and making adjustment accordingly (NOTE The above illustration shows solid link type which is similar to that used on Graham models)

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No.	Part No.	Part Name	
	1	P-22090	Float Needle Val Clip & Seat 113 (Use with P-22081 Float with Lever)	**(NOT VAR.)**
		P-19867	Float Needle Valve and Seat (without Clip) (Use with P 19825 Float and Lever)	
		P 22390	Assembly Float and Lever with Float Needle Valve, Seat and Clip	
	2	J 4540-G	Complete Gasket Set	
	3	P 20911	Power By-Pass Jet No 62	**(NOT VAR.)**
	4	P-20775	Pump Piston and Link **(Includes P-16960)**	
	4 A	P-20879	Pump Piston Link and Spring (Complete)	
	5	P-19458	Spring—Pump Duration	
	6	P-18144	Pump Inlet Check Valve	
	8	P-19448	Gasket—By Pass Jet	
	10	P-15478	Idle Needle Valve	
	11	P-15481	Spring—Idle Needle Valve	
	12	P-19442	Metering Jet—**.048"**	**(VAR.)**
	13	P 20853	Main Discharge Jet No 32 36	**(NOT VAR.)**
	14	P-22081	Float and Lever	
	15	P 10666	Gasket—Float Needle Valve Seat	
	16	P-19428	Gasket—Air Horn	
	17	P 20828	Gasket—Main Body	
	18	P-20419	Idle Tube No 55	**(NOT VAR.)**
	19	P-20447	Plug—Main Discharge Jet	
	20	P-7338	Gasket—Main Discharge Jet Plug and Check Valve Plug	
	21	P-3157	Lockwasher—Main Body Attaching Screw	
	22	P-18772	Lead Ball	
	23	P-18125	Screw—Float Lever Fulcrum	
	24	P-16960	Spring—Pump Piston Leather Expansion	
	25	P 3199	Screw—Air Horn Attaching	
	26	P-1791	Lockwasher—Air Horn Attaching Screw and Choke Lever	
	27	P-709	Screw—Main Body Attaching Screw	
	28	P 15456	Screw—Throttle Stop	
	29	P 15831	Spring—Throttle Stop Screw	
	30	*P 20831	Throttle Lever and Stem	
		P 19509	Ball Head	
	31	P-20874	Throttle Valve (5°)	**(NOT VAR.)**
	32	P 4522	Screw—Throttle and Choke Valve Attaching	
	34	P-19716	Plug—Check Valve	
	35	P 17380	Felt Washer—Pump Link	
	36	P 17060	Splash Washer—Pump Link	
	37	P-19488	Spring—Packing Retainer	
	38	P-22045	Washer—Cup	
	39	P-22046	Washer—Spring Retainer	
	41	P-20759	Choke Valve (Complete)	
		P-9283	Nut—Fulcrum Screw	
		P-20882	Screw—Vacuum Piston Link	
		P-20883	Lockwasher—Vacuum Piston Link Screw	
		P 20760	Link—Vacuum Piston	
		P-21010	Choke Valve with Bracket	
	42	P 20763	Choke Stem	
	43	P-20985	Air Horn with Vent and Bushings	
	43-A	P-20756	Assembly—Air Horn and Valve	
	44	P 21609	Assembly—Main Body **1 1/32"** Venturi (Complete with **No. 65** H S Bleeders and Pump Discharge Nozzles)	**(VAR.)**
	45	P-20989	Assembly—Throttle Body **No. 54-60** Idle Disch Holes and Idle Air Bleeder	**(VAR.)**
		P 20750	Reducer—Idle Air No 50	**(NOT VAR.)**
	46	P-19533	Pump Lever	
	47	P-19420	Pump Rod	
	50	P-20611	Screw—Pump Lever Fulcrum	
	51	P 7170	Cotter Pin—Pump Rod	
	52	P 20884	Plug—Vacuum Piston Channel 1/4"	
	53	P 15458	Plug—Idle Discharge Holes No 10	
	54	P-15457	Plug—Vacuum Piston Channel No 6	
	55	P-21054	Plug—Vacuum Piston Channel 17/64"	
	56	P 20782	Plug—Vacuum Piston Channel 17/32	
	57	P-20421	Gasket—Main Discharge Jet—Lead	
	58	P 20875	Vacuum Piston	
	59	P 2290	Nut—Choke Lever Attaching	
	60	P-21600	Choke Lever	
		P-19575	Ball Joint	
	61	P-20766	Bearing—Choke Stem Screw	
	62	P 15287	Set Screw—Choke Stem Screw Bearing	
	63	P 19587	Nut—Choke Rod Adjusting	
	64	P-20852	Choke Rod	
	65	P 20254	Thermostat Lever and Stem	
	66	P-21357	Thermostat Cover and Bushing	
	67	P-20834	Thermostat Bracket	
	68	P 22061	Thermostat	
	69	P-16426	Thermostat Washer	
	70	P 4	Cotter Pin—Thermostat Washer	
	71	P-20618	Screw—Bracket Adjusting	
	72	P-21338	Cotter Pin—Thermostat Stem	
	73	P-20973	Rivet—Vacuum Piston	
	74	P 21154	Float Chamber Vent	
	75	P-20767	Bushing—Choke Stem	
	76	P-20768	Bushing—Choke Stem Bearing	
	77	P-20435	Pump Discharge Tube (Right) No 65	**(NOT VAR.)**
	78	P 20436	Pump Discharge Tube (Left) No 65	**(NOT VAR.)**
	79	P-19430	Wedge—Pump Tube	
	80	P-23106	Cover—Vacuum Piston Link Channel	
	81	P 21977	Clip—Needle Valve	

NOTE—For parts marked (VAR) size must be specified when ordering

*Note When servicing or ordering parts for the above Carburetor with code number 10-4D use P-21602 Throttle Lever and Stem

BENDIX PRODUCTS DIVISION
SOUTH BEND **OF BENDIX AVIATION CORPORATION** **INDIANA**

Printed in U.S A

STROMBERG "EE-23" CARBURETOR

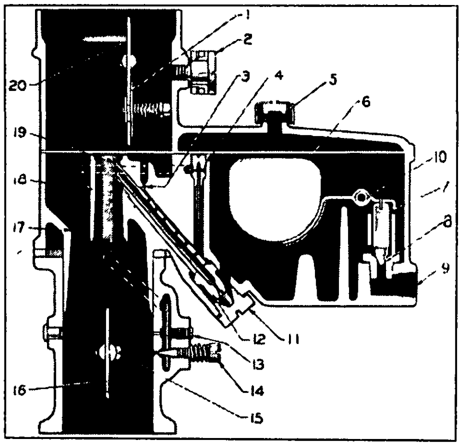
STROMBERG NO. A-17882 (CODE 10-1A) PACKARD SYMBOL 216790

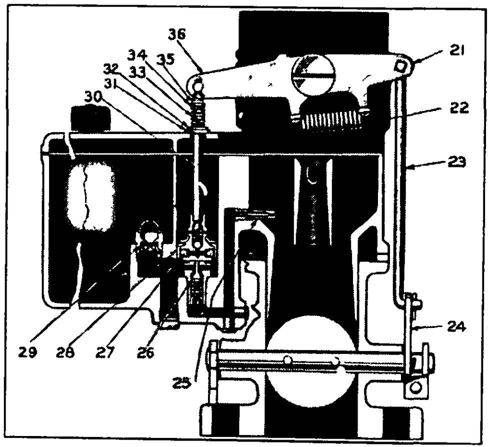
SIZE: 1¼" DUAL D. D. 3-HOLE FLANGE

1935
PACKARD
MODEL
SUPER "8"
1203-4-5
3½"x5"—8 cyl.

PARTS ILLUSTRATED

1. Poppet Valve
2. Fulcrum Screw
3. High Speed Bleed
4. Idle Tube
5. Float Chamber Vent
6. Float
7. Float Needle Valve
8. Float Needle Valve Seat
9. Gasoline Inlet
10. Float Fulcrum Pin
11. Main Discharge Jet Plug
12. Main Metering Jet
13. Idle Discharge Plug
14. Idle Needle Valve
15. Idle Discharge Holes
16. Throttle Valve
17. Primary Venturi
18. Auxiliary Venturi
19. Main Discharge Jet
20. Choke Valve
21. Pump Lever Arm
22. Pump Arm Connecting Spring
23. Pump Rod
24. Pump Lever
25. Pump Discharge Nozzle
26. Power By Pass Jet
27. Pump Piston Spring





28. Pump Piston
29. Check Valve
30. Pump Piston Link
31. Felt Washer
32. Splash Washer
33. Spring
34. Retainer Washer
35. Cotter Pin
36. Pump Piston Arm

Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **5/8"** below top surface of float chamber (without gasket) at 3 lbs. pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level).

MAIN METERING SYSTEM—Venturi **1-3/16"**; Main Discharge Jet **No. 28-36** P-19364 **(Tool T-24967)**; High Speed Bleeder **No. 65** in body. Main Metering Jet **.056"** P-17004 **(Tool T-23844)**; Use **Tool T-19099** Screw Driver for removing main jet plug. Main metering system controls the flow of fuel up to approximately 65 to 70 M. P. H.

POWER SYSTEM—Combination Power and Pump By-Pass Jet **No. 54** P-20895. The Power Jet is brought into action at approximately 65 to 70 M. P. H. Pump piston to rest on seat of by-pass jet (less over-travel) with throttle valve opened **9/32" + — 1/64"** drill (maximum pump setting) (measure with shank end of **9/32"** drill); bend pump rod to obtain correct setting.

ACCELERATION—Pump Discharge Nozzles **No. 60** in main body; Pump capacity **12** to **16** c.c. per 10 fast strokes, and **14** to **18** c.c. per 10 slow strokes with pump rod link set in minimum setting Use **To 1 T-24972.** Pump action takes place during acceleration period only. Pump to be set at minimum setting.

IDLE SYSTEM—Idle Discharge holes **Nos. 56-60.** With throttle valve fully closed and **No. 60** drill in idle hole, edge of valve is located **.030" + — .004"** from **No. 60** drill; Idle Air Bleed **No. 44** P-15477; Idle Tube **No. 70** P-17007. **Adjustment:** Adjust to smooth running, one barrel at a time, OUT to make richer and IN to make leaner; throttle at 7 to 8 M. P. H.

FLANGE GASKET—P-22393.

SPECIAL TOOLS REQUIRED—Use Packard complete Tool Kit **SER. 376;** T-24733 Float Adjuster Wrench; T-24967 Main Discharge Jet Remover; T-23844 Main Metering Jet Wrench; T-24970 By-Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burette Gauge; T-24968 Handle; T-19099 Main Jet Plug Screw Driver; T-23785 Check Valve Socket Wrench.

MOTOR TUNE-UP DATA

SPARK PLUG—.025".
Clean and adjust at regular intervals.

DISTRIBUTOR—.018" to .022".
Breaker gap set .018" to .022".
R place if necessary.

VALVES—Intake: .004".
Exhaust: .006". **Engine hot.**

IGNITION TIMING—Stationary contacts to open for No. 1 cylinder when mark 6° before T. D. C. (.0168" piston position) on vibration damper lines up with pointer.

SERVICE RECOMMENDATION — Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

Printed in U S A

GENERAL DESCRIPTION AND ADJUSTMENTS OF AUTOMATIC CHOKE CONTROL AND FAST IDLE MECHANISM

In the Stromberg Model EE 23 carburetor, the automatic choke control with the exception of the thermostat unit "R" is built into the throttle valve body The thermostat is attached to the manifold riser where it can absorb heat from the exhaust gasses which govern its tension The design of the automatic choke control in the EE-23 carburetor does not require the choke control be "locked" in closed position while cranking the engine.

The purpose of the fast idle mechanism is to prevent the throttle valve from closing tightly while cranking the engine and also from stalling during the warming up period Figures 1 to 4 show the automatic choke control and fast idle mechanism in the various stages of operation

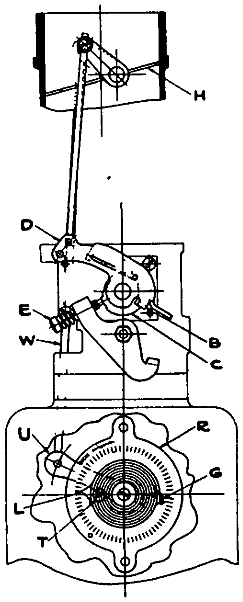


FIG. 1

CHOKE CLOSED — FAST IDLE

To make a start it is necessary to OPEN THROTTLE TO 20 MILE HOUR SPEED With this movement adjustment screw "E" is lifted away from the fast idle cam "C" and allows choke valve "H" to close With the raising of lever "D", ear "B", which is a part of the lever rotates fast idle cam "C" so that adjustment screw "E" comes to rest on the extreme fast idle position of cam "C" During the cranking of the engine the carburetor and choke control remain in the closed position as shown in Fig 1.

ADJUSTING THERMOSTAT

To adjust the thermostat it is necessary to remove the complete unit "R" from the manifold and proceed as follows

1 Allow the thermostat to cool or warm until it has reached the temperature of 70°

2 After it has reached this temperature, unhook the thermostat from the prong "G", revolve indicator point "L" to the zero marking of the thermostat plate In this position the hook of the thermostat should come flush with the prong "G" of the indicator

3 Thermostat pointer should then be revolved to the prick punch marking which is eleven graduations rich and is the original setting made at the factory
If the thermostat hook does not come against prong "G" when the pointer "L" is at the zero marking it will be necessary to recalibrate the thermostat as follows

4 With lever "U" held against screw "T", revolve pointer so that the hook of the thermostat comes flush with prong "G"
This will then place pointer "L" at a different position and will be the new zero location This should be stamped on the plate and the old marking obliterated

5 From this point, hook the spring onto prong "G" and revolve pointer "L" eleven notches rich and lock in position

6 Reinstall thermostat unit "R" in manifold and with choke valve "H" in closed position, attach rod "W" to lever "U", holding lever against screw "T"

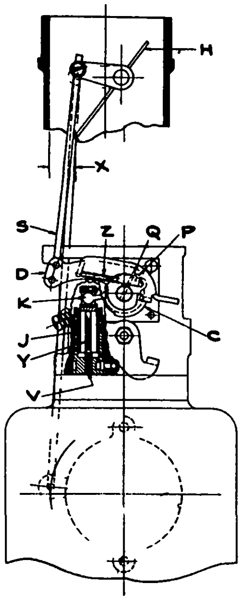


FIG. 2

CHOKE PARTIALLY OPEN — ENGINE WARM — INTERMEDIATE IDLE

As soon as the engine begins to fire and a manifold vacuum is created, vacuum piston "J" is pulled down Ear "P" of loose arm "K" comes in contact with dowel pin "Q" to rotate shaft and assembly in counter-clockwise direction, lever "D" being on the same shaft as pin "Q" rotates with it and pulls down connecting rod "S", forcing choke valve "H" to open a predetermined amount

Fast idle cam "C" is then rotated by spring "Z", allowing adjustment screw "E" to gradually close the throttle valve until it reaches the slow idle position The choke valve in the carburetor being off center, continues to open by the inrushing air, which works against the tension of the thermostat until the thermostat absorbs enough heat so that it will not offer any resistance and choke valve "H" drops to the position as shown in Fig No 4 with a hot engine If for any reason it is necessary to replace piston sleeve or pin "Y", the pin should be adjusted so that a **5/16"** drill can be placed between the choke valve and body shown as "X", with piston "J" in the down position After pin is adjusted, lead ball "V" should be used to lock pin in position

ENGINE FLOODED — THROTTLE OPEN

Should the engine become flooded for any reason, the choke valve "H" can be manually opened by kicking the throttle pedal wide open This action rotates throttle lever "A" in anti-clockwise direction to bring it in contact with ear "N" of lever "D", which pulls down connecting rod 'S' and opens choke valve "H" The engine then may be cranked for a few times to clean out the manifold

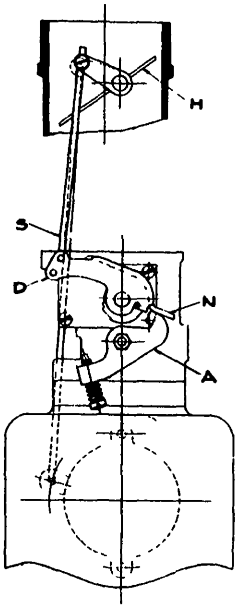


FIG. 3

CHOKE OPEN — SLOW IDLE — ENGINE HOT OR COLD

Figure 4 shows the choke valve "H" in wide open position which it will be when a hot motor is stopped and the throttle valve is allowed to close In this illustration, adjustment screw "E" is shown at slow or curb idle which should be set at 7 miles per hour with the engine warm As the engine becomes cold the thermostat also cools to gradually gain tension and tend to close the carburetor choke valve It is prevented from doing so by the fast idle adjustment screw "E" coming in contact with the notch on the fast idle cam "C".

FAST IDLE ADJUSTMENT

With fast idle screw in contact with second step of cam, choke valve to be open from a **No. 1** drill to **15/64"** drill. Adjust with set screw on choke lever.

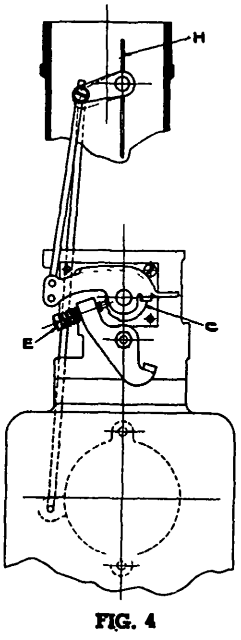
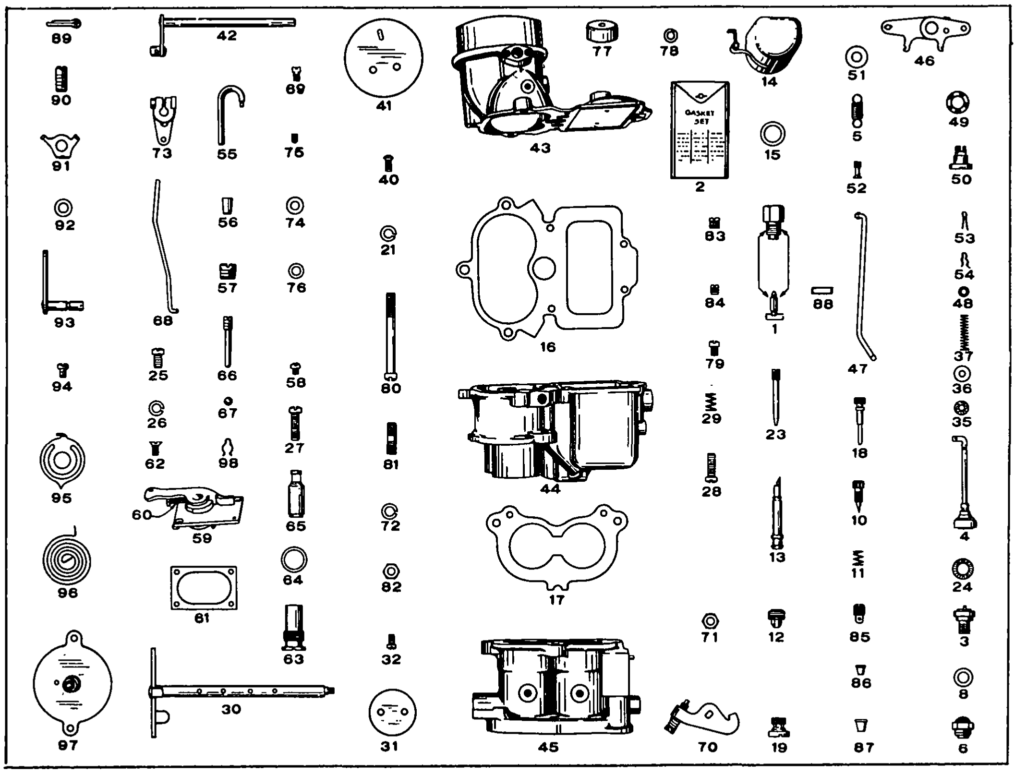


FIG. 4

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No.	Part No.	Part Name
	1	**P-22091**	Float Needle Val. Clip & Seat—.130" **(NOT VAR.)**
	2	**J-4385-G**	Complete Gasket Set
	3	**P-20895**	Power By-Pass Jet No. 54 **(NOT VAR.)**
	4	**P-17073**	Pump Piston and Link **(Includes P-16960)**
	5	**P-17042**	Spring—Pump Duration
	6	**P-16990**	Pump Inlet Check Valve
	8	**P-6855**	Gasket—By-Pass Jet
	10	**P-17402**	Idle Needle Valve
	11	**P-15481**	Spring—Idle Needle Valve
	12	**P-17004**	Metering Jet —**.056"** **(VAR.)**
	13	**P-19364**	Main Discharge Jet No. 28-36 **(NOT VAR.)**
	14	**P-22088**	Float With Lever
	15	**P-10666**	Gasket—Float Needle Valve Seat
	16	**P-17923**	Gasket—Air Horn
	17	**P-16941**	Gasket—Main Body
	18	**P-17007**	Idle Tube No. 70 **(NOT VAR.)**
	19	**P-18130**	Plug—Main Discharge Jet
	21	**P-3157**	Lockwasher—Main Body Attaching Screw
	23	**P-17939**	Screw—Fulcrum—Float Lever
	24	**P-16960**	Spring—Pump Piston Leather Expansion
	25	**P-46**	Screw—Air Horn Attaching
	26	**P-6668**	Lockwasher—Air Horn Attaching Screw
	27	**P-15554**	*Screw—Main Body Attaching*
	28	**P-15456**	Screw—Throttle Stop
	29	**P-15831**	Spring—Throttle Stop Screw
	30	**P-20249**	Throttle Lever and Stem
	31	**P-17018**	Throttle Valve—(5°) **(NOT VAR.)**
	32	**P-16716**	Screw—Throttle Valve Attaching
	35	**P-17380**	Washer—Felt—Pump Link
	36	**P-17060**	Washer—Splash Pump Link
	37	**P-17753**	Spring—Felt Retainer
	40	**P-4522**	Screw—Choke Valve Attaching
	41	**P-19345**	Choke Valve
	42	**P-19766**	Choke Stem and Lever
	43	**P-20465**	Air Horn
	43-A	**P-20463**	Air Horn and Valve (Complete)
	44	**P-20292**	Main Body **1-3/16"** Venturi **No. 65** H. S. Bleeder **No. 60** Pump Discharge Tube **(VAR.)**
	45	**P-19342**	Throttle Body **No. 56-60** Idle Disch. Hole **(VAR.)**
		P-18970	Auto Choke Unit Guide
	46	**P-16976**	Pump Lever
	47	**P-17045**	Pump Rod
	48	**P-9394**	Washer—Pump Rod
	49	**P-17133**	Washer—Pump Lever Fulcrum Screw Spring
	50	**P-16973**	Screw—Pump Lever Fulcrum
	51	**P-17009**	Washer—Pump Lever Fulcrum Screw
	52	**P-17027**	Screw—Pump Lever Fulcrum Screw Lock
	53	**P-7170**	Cotter Pin—Pump Rod
	54	**P-19374**	Cotter Pin—Pump Link
	55	**P-20232**	Pump Discharge Tube No. 60 **(NOT VAR.)**
	56	**P-19430**	Wedge—Pump Tube
	57	**P-6406**	Plug—Pump Channel 5/6-24
	58	**P-6970**	Screw—Pump Lever Stop
	59	**P-19751**	Automatic Choke Unit (Includes P-19104)
	60	**P-19104**	Spring—Auto Choke Unit Cam Return
	61	**P-19124**	Gasket—Auto Choke Unit
	62	**P-19105**	Screw—Automatic Choke Unit Attaching
	63	**P-19980**	Vacuum Piston Sleeve
	64	**P-19662**	Gasket—Vacuum Piston Sleeve
	65	**P-19987**	Vacuum Piston
	66	**P-19982**	Pin-Vacuum Piston Adjusting
	67	**P-19983**	Lead Ball—Vac. Piston Adjusting Screw—Plug
	68	**P-19341**	Rod—Fast Idle
	69	**P-14159**	Screw—Fast Idle Rod Set
	70	**P-19351**	Lever—Fast Idle Stop
		P-19352	Fast Idle Stop
		P-19103	Fast Idle Stop Adjusting Screw
		P-15831	Fast Idle Stop Adjusting Screw Spring
	71	**P-2290**	Nut—Fast Idle Stop Attaching
	72	**P-1791**	Lockwasher—Fast Idle Stop Attaching Nut
	73	**P-20229**	Lever—Choke Lever
		P-16955	Choke Lever
		P-18300	Choke Lever Clamp Screw
		P-18299	Choke Lever Clamp Screw Nut
	74	**P-17081**	Collar—Choke Stem
	75	**P-16161**	Screw—Choke Stem Collar Set
	76	**P-16426**	Washer—Choke Stem
	77	**P-18716**	Vent Cap
	78	**P-12167**	Lockwasher—Vent Cap Attaching Screw
	79	**P-2369**	*Screw—Vac. Piston Stop and Vent Cap Attach.*
	80	**P-18111**	Screw—Air Horn Attaching
	81	**P-8012**	Stud—Main Body Attaching
	82	**P-17147**	Nut—Main Body Attaching Stud
	83	**P-6387**	Plug—Idle Discharge Holes No. 10-32
	84	**P-7098**	Plug—Pump Channel No. 8-32
	85	**P-15477**	Bleeder—Idle Air **No. 44** **(VAR.)**
	86	**P-15457**	Plug—Idle Air Channel
	87	**P-15459**	Plug—Idle Discharge Drilling Holes
	88	**P-17473**	Clip—Float Needle Valve
	89	**P-4**	Cotter Pin—Fast Idle Rod & Therm. Stem Washer
	90	**P-17723**	Screw—Thermostat Stop Adjusting
	91	**P-19144**	Stop—Thermostat Lever
	92	**P-16426**	Washer—Thermostat Stem
	93	**P-20254**	Thermostat Stem and Lever
	94	**P-19114**	Screw—Bracket Lock
	95	**P-19113**	Bracket—Thermostat
	96	**P-22060**	Thermostat
	97	**P-21358**	Thermostat Plate and Bushing
	98	**P-21338**	Cotter Pin—Thermostat Stem
		P-20231	Thermostat Unit Complete

When servicing or ordering parts for the above carburetor it is necessary to note the following parts exception: When replacing Float—If Float Needle Valve does not have Clip, replace Float with P-17926. To bring Carburetor up to latest specification replace P-17926 (Old Style Float) with P-22391. Float with Float Needle Valve and Clip and Seat. To replace Float Needle and Seat with Old Style Float—order P-19547. Clip on Float Needle Valve denotes new style. Slot cut in Float Lever denotes new style. When replacing Vacuum Piston and Sleeve on Automatic Choke, if Sleeve is (Old Style) without Adjusting Screw Pin it is necessary to order the following parts: **P-19980** Vacuum Piston Sleeve; **P-19987** Vacuum Piston; **P-19982** Vacuum Piston Adjusting Pin; **P-19983** Vacuum Piston Adjusting Pin Lead Plug.

NOTE—For parts marked (VAR.) size must be specified when ordering.

BENDIX PRODUCTS DIVISION
SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

Printed in U.S.A.

STROMBERG "EE-23" CARBURETOR

STROMBERG NO. A-17892 (CODE NO. 10-2A) PACKARD SYMBOL 216791

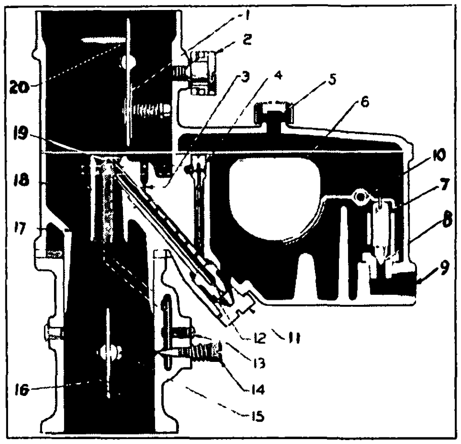
SIZE: 1¼" DUAL D. D. 3-HOLE FLANGE

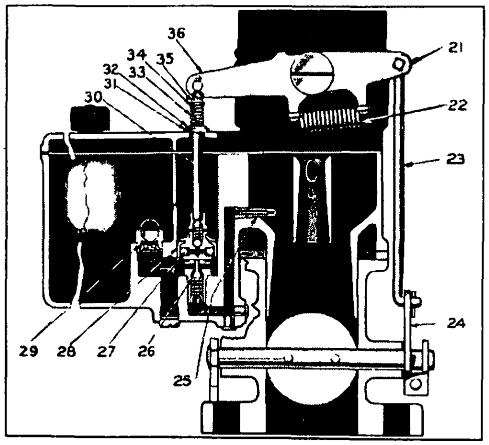
1935 PACKARD

MODEL
STD. 8—1201-2
3-3/16"x5"—8 cyl.

PARTS ILLUSTRATED

1 Poppet Valve
2 Fulcrum Screw
3 High Speed Bleed
4 Idle Tube
5. Float Chamber Vent
6 Float
7 Float Needle Valve
8 Float Needle Valve Seat
9 Gasoline Inlet
10 Float Fulcrum Pin
11. Main Discharge Jet Plug
12. Main Metering Jet
13 Idle Discharge Plug
14 Idle Needle Valve
15 Idle Discharge Holes
16 Throttle Valve
17 Primary Venturi
18 Auxiliary Venturi
19 Main Discharge Jet
20 Choke Valve
21 Pump Lever Arm
22. Pump Arm Connecting Spring
23 Pump Rod
24 Pump Lever
25 Pump Discharge Nozzle
26 Power By-Pass Jet
27 Pump Piston Spring





28 Pump Piston
29 Check Valve
30 Pump Piston Link
31 Felt Washer
32 Splash Washer
33 Spring
34 Retainer Washer
35 Cotter Pin
36 Pump Piston Arm

Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **5/8"** below top surface of float chamber (without gasket) at 3 lbs. pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level).

MAIN METERING SYSTEM—Venturi **1-3/32"**; Main Discharge Jet **No. 28-36** P-19364 **(Tool T-24967)**; High Speed Bleeder **No. 65** in body. Main Metering Jet **.052"** P-17004 **(Tool T-23844)**; Use **Tool T-19099** Screw Driver for removing main jet plug. Main metering system controls the flow of fuel up to approximately 65 to 70 M. P. H.

POWER SYSTEM—Combination Power and Pump By-Pass Jet **No. 64** P-20823. The Power Jet is brought into action at approximately 65 to 70 M. P. H. Pump piston to rest on seat of by-pass jet (less over-travel) with throttle valve opened **9/32" + — 1/64"** drill (maximum pump setting) (measure with shank end of **9/32"** drill); bend pump rod to obtain correct setting.

ACCELERATION—Pump Discharge Nozzles **No. 60** in main body; Pump capacity **12** to **16** c.c. per 10 fast strokes, and **14** to **18** c.c. per 10 slow strokes with pump rod link set in minimum setting. Use **Tool T-24972.** Pump action takes place during acceleration period only. Pump to be set in minimum setting.

IDLE SYSTEM—Idle Discharge holes **Nos. 56-60.** With throttle valve fully closed and **No. 60** drill in idle hole, edge of valve is located **.030" + — .004"** from **No. 60** drill; Idle Air Bleed **No. 42** P-15477; Idle Tube **No. 70** P-17007. **Adjustment:** Adjust to smooth running, one barrel at a time, OUT to make richer and IN to make leaner; throttle at 7 to 8 M. P. H

FLANGE GASKET—P-22393.

SPECIAL TOOLS REQUIRED—Use Packard complete Tool Kit **SER. 376;** T-24733 Float Adjuster Wrench; T-24967 Main Discharge Jet Remover; T-23844 Main Metering Jet Wrench; T-24970 By-Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burrette Gauge; T-24968 Handle; T-19099 Main Jet Plug Screw Driver; T-23785 Check Valve Socket Wrench.

MOTOR TUNE-UP DATA

SPARK PLUG—.025".
Clean and adjust at regular intervals.

DISTRIBUTOR—.018" to .022".
Breaker gap set .018" to .022".
Replace if necessary.

VALVES—Intake: .004".
Exhaust: .006". **Engine hot.**

IGNITON TIMING—Stationary contacts to open for No. 1 cylinder when proper mark on vibration damper lines up with pointer as follows—6.5 to 1 head—6° before T. D. C. (.0168" piston position) 6.0 to 1 head —10° before T. D. C. (.0467) piston position).

SERVICE RECOMMENDATION — Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

GENERAL DESCRIPTION AND ADJUSTMENTS OF AUTOMATIC CHOKE CONTROL AND FAST IDLE MECHANISM

In the Stromberg Model EE 23 carburetor, the automatic choke control with the exception of the thermostat unit "R" is built into the throttle valve body The thermostat is attached to the manifold riser where it can absorb heat from the exhaust gasses which govern its tension The design of the automatic choke control in the EE-23 carburetor does not require the choke control be "locked" in closed position while cranking the engine

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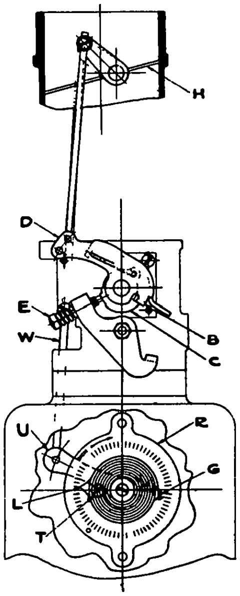

FIG. 1

CHOKE CLOSED — FAST IDLE

To make a start it is necessary to OPEN THROTTLE TO 20 MILE HOUR SPEED With this movement adjustment screw "E" is lifted away from the fast idle cam "C" and allows choke valve "H" to close With the raising of lever "D", ear "B", which is a part of the lever rotates fast idle cam "C" so that adjustment screw "E" comes to rest on the extreme fast idle position of cam "C" During the cranking of the engine the carburetor and choke control remain in the closed position as shown in Fig 1

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To adjust the thermostat it is necessary to remove the complete unit "R" from the manifold and proceed as follows

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3 Thermostat pointer should then be revolved to the prick punch marking which is eleven graduations rich and is the original setting made at the factory
If the thermostat hook does not come against prong "G" when the pointer "L" is at the zero marking it will be necessary to recalibrate the thermostat as follows

4 With lever "U' held against screw "T', revolve pointer so that the hook of the thermostat comes flush with prong "G"
This will then place pointer "L" at a different position and will be the new zero location This should be stamped on the plate and the old marking obliterated

5 From this point, hook the spring onto prong "G" and revolve pointer "L" eleven notches rich and lock in position

6 Reinstall thermostat unit "R" in manifold and with choke valve "H" in closed position, attach rod "W" to lever "U", holding lever against screw "T'

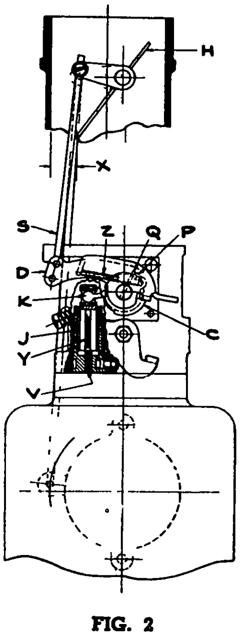


FIG. 2

CHOKE PARTIALLY OPEN — ENGINE WARM — INTERMEDIATE IDLE

As soon as the engine begins to fire and a manifold vacuum is created, vacuum piston "J" is pulled down Ear "P" of loose arm "K" comes in contact with dowel pin "Q" to rotate shaft and assembly in counter-clockwise direction, lever "D" being on the same shaft as pin 'Q" rotates with it and pulls down connecting rod "S", forcing choke valve "H" to open a predetermined amount.

Fast idle cam "C" is then rotated by spring "Z", allowing adjustment screw "E" to gradually close the throttle valve until it reach s the slow idle position. The choke valve in the carburetor being off center, continues to open by the inrushing air, which works against the tension of the thermostat until the thermostat absorbs enough heat so that it will not offer any resistance and choke valve "H" drops to the position as shown in Fig. No. 4 with a hot engine. If for any reason it is necessary to replace piston sleeve or pin "Y", the pin should be adjusted so that a **5/16"** drill can be placed between the choke valve and body shown as "X", with piston "J" in the down position. After pin is adjusted, lead ball "V" should be used to lock pin in position.

ENGINE FLOODED — THROTTLE OPEN

Should the engine become flooded for any reason, the choke valve "H" can be manually opened by kicking the throttle pedal wide open. This action rotates throttle lever "A" in anti-clockwise direction to bring it in contact with ear "N" of lever "D", which pulls down connecting rod "S" and opens choke valve "H". The engine then may be cranked for a few times to clean out the manifold.

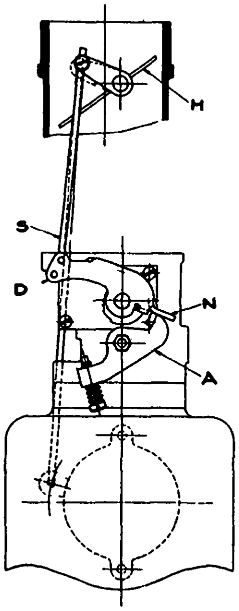


FIG. 3

CHOKE OPEN — SLOW IDLE — ENGINE HOT OR COLD

Figure 4 shows the choke valve "H" in wide open position which it will be when a hot motor is stopped and the throttle valve is allowed to close. In this illustration, adjustment screw "E" is shown at slow or curb idle which should be set at 7 miles per hour with the engine warm. As the engine becomes cold the thermostat also cools to gradually gain tension and tend to close the carburetor choke valve. It is prevented from doing so by the fast idle adjustment screw "E" coming in contact with the notch on the fast idle cam "C".

FAST IDLE ADJUSTMENT

With fast idle screw in contact with second step of cam, choke valve to be open from a **No. 1** drill to **15/64"** drill. Adjust with set screw on chok lev r.

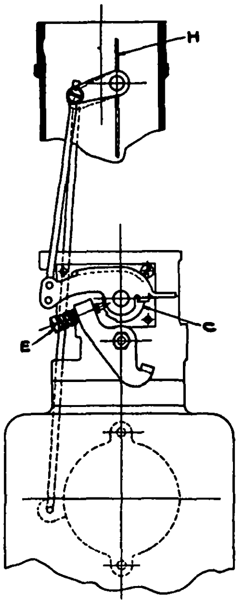
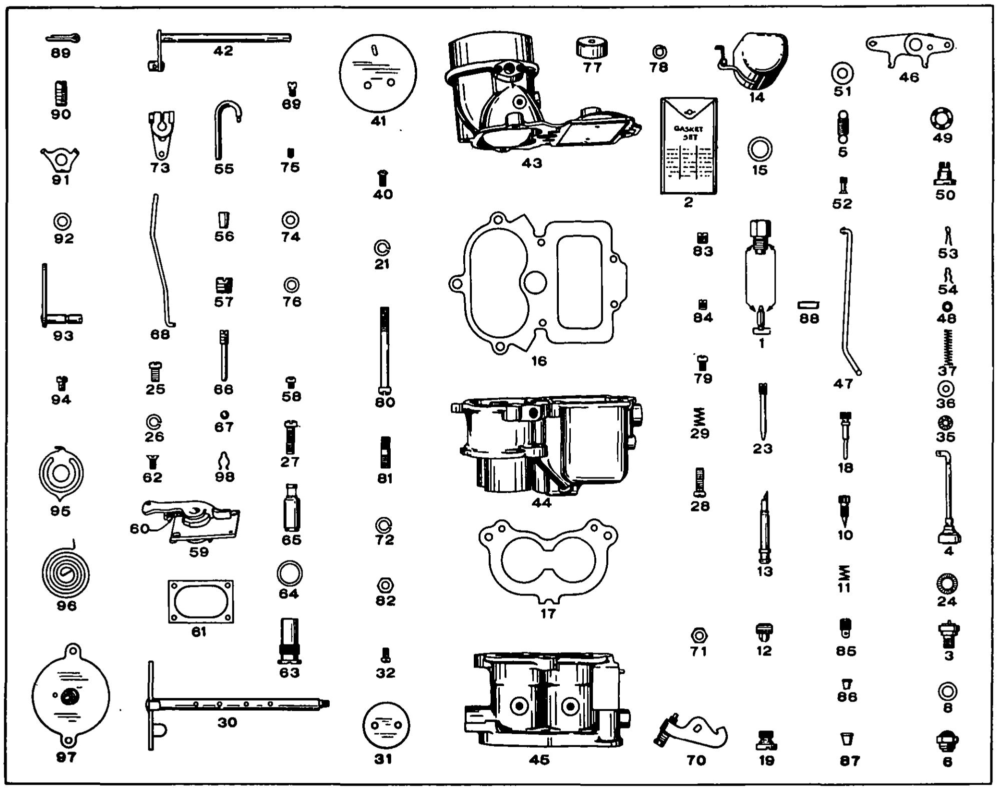


FIG. 4



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No.	Part No.	Part Name
	1	**P-22091**	Float Needle Val. Clip & Seat .130" **(NOT VAR.)**
	2	**J-4385-G**	Complete Gasket Set
	3	**P-20823**	Power By-Pass Jet No. 64 **(NOT VAR.)**
	4	**P-18388**	Pump Piston and Link **(Includes P-16960)**
	5	**P-17042**	Spring—Pump Duration
	6	**P-16990**	Pump Inlet Check Valve
	8	**P-6855**	Gasket—By-Pass Jet
	10	**P-17402**	Idle Needle Valve
	11	**P-15481**	Spring—Idle Needle Valve
	12	**P-17004**	Metering Jet—**.052"** **(VAR.)**
	13	**P-19364**	Main Discharge Jet No. 28-36 **(NOT VAR.)**
	14	**P-22088**	Float with Lever
	15	**P-10666**	Gasket—Float Needle Valve Seat
	16	**P-17923**	Gasket—Air Horn
	17	**P-16941**	Gasket—Main Body
	18	**P-17007**	Idle Tube No. 70 **(NOT VAR.)**
	19	**P-18130**	Plug—Main Discharge Jet
	21	**P-3157**	Lockwasher—Main Body Attaching Screw
	23	**P-17939**	Screw—Fulcrum—Float Lever
	24	**P-16960**	Spring—Pump Piston Leather Expansion
	25	**P-46**	Screw—Air Horn Attaching
	26	**P-6668**	Lockwasher—Air Horn Attaching Screw
	27	**P-15554**	Screw—Main Body Attaching
	28	**P-15456**	Screw—Throttle Stop
	29	**P-15831**	Spring—Throttle Stop Screw
	30	**P-20249**	Throttle Lever and Stem
	31	**P-17018**	Throttle Valve (5°) **(NOT VAR.)**
	32	**P-16716**	Screw—Throttle Valve Attaching
	35	**P-17380**	Washer—Felt
	36	**P-17060**	Washer—Splash—Pump Link
	37	**P-17753**	Spring—Felt Retainer
	40	**P-4522**	Screw—Choke Valve Attaching
	41	**P-19345**	Choke Valve
	42	**P-19766**	Choke Stem and Lever
	43	**P-20465**	Air Horn
	43-A	**P-20463**	Air Horn and Valve (Complete)
	44	**P-20292**	Main Body **1-3/32"** Venturi **No. 65** H. S. Bleeder **No. 60** Pump Discharge Tube **(VAR.)**
	45	**P-19342**	Throttle Body **No.56-60** Idle Disch. Holes **(VAR.)**
		P-18970	Automatic Choke Unit Guide
	46	**P-16976**	Pump Lever
	47	**P-17045**	Pump Rod
	48	**P-9394**	Washer—Pump Rod
	49	**P-17133**	Washer—Pump Lever Fulcrum Screw Spring
	50	**P-16973**	Screw—Pump Lever Fulcrum
	51	**P-17009**	Washer—Pump Lever Fulcrum Screw
	52	**P-17027**	Screw—Pump Lever Fulcrum Screw Lock
	53	**P-7170**	Cotter Pin—Pump Rod
	54	**P-19374**	Cotter Pin—Pump Link
	55	**P-20232**	Pump Discharge Tube No. 60 **(NOT VAR.)**
	56	**P-19430**	Wedge—Pump Tube
	57	**P-6406**	Plug—Pump Channel 5/16-24
	58	**P-6970**	Screw—Pump Lever Stop
	59	**P-19751**	Automatic Choke Unit (Includes P-19104)
	60	**P-19104**	Spring—Automatic Choke Unit Cam Return
	61	**P-19124**	Gasket—Automatic Choke Unit
	62	**P-19105**	Screw—Automatic Choke Unit Attaching
	63	**P-19980**	Vacuum Piston Sleeve
	64	**P-19662**	Gasket—Vacuum Piston Sleeve
	65	**P-19987**	Vacuum Piston
	66	**P-19982**	Pin Vacuum Piston Adjusting
	67	**P-19983**	Lead Ball Vacuum Adjusting Screw—Plug
	68	**P-19341**	Rod—Fast Idle
	69	**P-14159**	Screw Fast Idle Rod Set
	70	**P-19351**	Lever—Fast Idle Stop
		P-19352	Fast Idle Stop
		P-19103	Fast Idle Stop Adjusting Screw
		P-15831	Fast Idle Stop Adjusting Screw Spring
	71	**P2290**	Nut—Fast Idle Stop Attaching
	72	**P-1791**	Lockwasher—Fast Idle Stop Attaching Nut
	73	**P-20229**	Lever—Choke Lever
		P-16955	Choke Lever
		P-18300	Choke Lever Clamp Screw
		P-18299	Choke Lever Clamp Screw Nut
	74	**P-17081**	Collar—Choke Stem
	75	**P-16161**	Screw—Choke Stem Collar Set
	76	**P-16426**	Washer Choke Stem
	77	**P-18716**	Vent Cap
	78	**P-12167**	Lockwasher—Vent Cap Attaching Screw
	79	**P-2369**	Screw—Vac. Piston Stop and Vent Cap Attach.
	80	**P-18111**	Screw—Air Horn Attaching
	81	**P-8012**	Stud Main Body Attaching
	82	**P-17147**	Nut—Main Body Attaching Stud
	83	**P-6387**	Plug Idle Discharge Holes and Air Horn 10-32
	84	**P-7098**	Plug—Pump Channel No. 8-32
	85	**P-15477**	Idle Air Bleeder **No. 42** **(VAR.)**
	86	**P-15457**	Plug—Idle Air Channel
	87	**P-15459**	Plug—Idle Discharge Drilling Holes
	88	**P-17473**	Clip—Float Needle Valve
	89	**P-4**	Cotter Pin—Fast Idle Rod & Therm. Stem Washer
	90	**P-17723**	Screw Thermsotat Stop Adjusting
	91	**P-19144**	Stop—Thermostat Lever
	92	**P-16426**	Washer—Thermostat Stem
	93	**P-20254**	Thermostat Stem and Lever
	94	**P-19114**	Screw—Bracket Lock
	95	**P-19113**	Bracket—Thermostat
	96	**P-22060**	Thermostat
	97	**P-21358**	Thermostat Plate and Bushing
	98	**P-21338**	Cotter Pin—Thermostat Stem
		P-20231	Thermostat Unit Complete

When servicing or ordering parts for the above carburetor it is necessary to note the following parts exception: When replacing Float—If Float Needle Valve does not have Clip, replace Float with P-17926. To bring Carburetor up to latest specification replace P-17926 (Old Style Float) with P-22391 Float with Float Needle Valve and Clip and Seat. To replace Float Needle and Seat with Old Style Float—order P-19547. Clip on Float Needle Valve denotes new style. Slot cut in Float Lever denotes new style. When replacing Vacuum Piston and Sleeve on Automatic Choke, if Sleeve is (Old Style) without adjusting Screw Pin it is necessary to order the following parts: **P-19980** Vacuum Piston Sleeve; **P-19987** Vacuum Piston; **P-19982** Vacuum Piston Adjusting Pin; **P-19983** Vacuum Piston Adjusting Pin Lead Plug.

NOTE—For parts marked (VAR.) size must be specified when ordering.

BENDIX PRODUCTS DIVISION

SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

Printed in U.S.A.

STROMBERG "EE-3" CARBURETOR

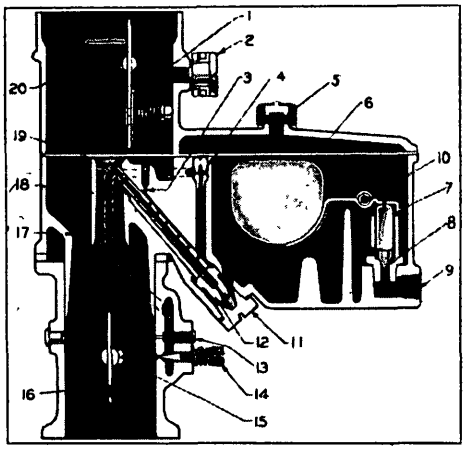
STROMBERG NO. A-17943 (CODE NO. 18-27) PIERCE ARROW SYMBOL 707579

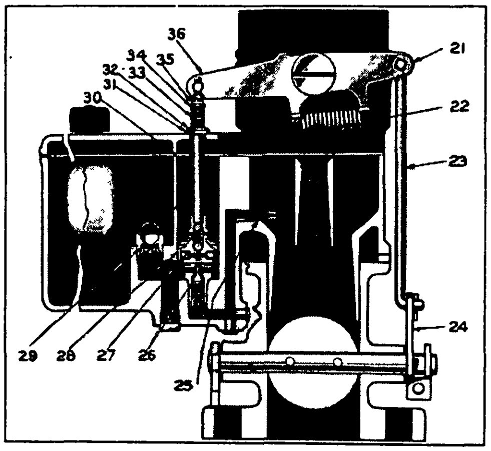
SIZE: 1½" DUAL D. D. 6-HOLE FLANGE

1937
Pierce Arrow
MODEL
1701
3½"x5"—8 cyl.

PARTS ILLUSTRATED

1. Poppet Valve
2. Fulcrum Screw
3. High Speed Bleed
4. Idle Tube
5. Float Chamber Vent
6. Float
7. Float Needle Valve
8. Float Needle Valve Seat
9. Gasoline Inlet
10. Float Fulcrum Pin
11. Main Discharge Jet Plug
12. Main Metering Jet
13. Idle Discharge Plug
14. Idle Needle Valve
15. Idle Discharge Holes
16. Throttle Valve
17. Primary Venturi
18. Auxiliary Venturi
19. Main Discharge Jet
20. Choke Valve
21. Pump Lever Arm
22. Pump Arm Connecting Spring
23. Pump Rod
24. Pump Lever
25. Pump Discharge Nozzle
26. Power By-Pass Jet
27. Pump Piston Spring
28. Pump Piston
29. Check Valve
30. Pump Piston Link
31. Felt Washer
32. Splash Washer
33. Spring
34. Retainer Washer
35. Cotter Pin
36. Pump Piston Arm





Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **9/16"** below top surface of float chamber (without gasket) at 3 lbs. pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level).

MAIN METERING SYSTEM—Venturi **1-3/16"**; Main Discharge Jet **No. 28** P-18969 **(Tool T-24967)**; High Speed Bleeder **No. 70** in body. Main Metering Jet **.058"** P-17004 **(Tool T-23844)**; Use **Tool T-5164** Screw Driver for removing main jet plug. Main metering system controls the flow of fuel up to approximately 65 to 70 M. P. H.

POWER SYSTEM—Combination Power and Pump By-Pass Jet **No. .060"** P-16965 **(Tool T-20138).** The Power Jet is brought into action at approximately 65 to 70 M. P. H. Pump piston to rest on seat of by-pass jet (less over-travel) with throttle valve opened **7/32"** + — **1/64"** drill (maximum pump setting) (measure with shank end of **7/32"** drill); bend pump rod to obtain correct setting.

ACCELERATION — Pump Discharge Nozzles **No. 68** P-17454; Pump capacity **10** to **14** c.c. per 10 fast strokes, and **14** to **18** c.c. per 10 slow strokes with pump rod link set in minimum setting. Use **Tool T-24972.** Pump action takes place during acceleration period only. Set pump for maximum stroke.

IDLE SYSTEM—Idle Discharge holes **Nos. 56-58.** With throttle valve fully closed and **No. 58** drill in idle hole, edge of valve is located **.030"** + — **.004"** from **No. 58** drill; Idle Air Bleed **No. 41** P-15477; Idle Tube **No. 70** P-17007. **Adjustment:** Adjust to smooth running, one barrel at a time, OUT to make richer and IN to make leaner; throttle at 7 to 8 M. P. H.

SPECIAL TOOLS REQUIRED—T-24733 Float Adjuster Wrench; T-24967 Main Discharge Jet Remover; T-23844 Main Metering Jet Wrench; T-24970 By-Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burrette Gauge; T-24968 Handle; T-5164 Main Jet Plug Screw Driver; T-23785 Check Valve Socket Wrench; T-20138 By-Pass Jet Socket Wrench; T-20140 Float Needle Valve Seat Socket Wrench.

MOTOR TUNE-UP DATA

SPARK PLUG—.025".
Clean and adjust at regular intervals.

DISTRIBUTOR—.0125" to .0175".
Breaker gap set .0125" to .0175".
Replace if necessary.

VALVES—Intake:
Exhaust: Automatic take-up. No adjustment.

IGNITION TIMING—Breaker contacts to open for No. 4 cylinder when "IGN" mark 5° before top dead center is in line with pointer.

SERVICE RECOMMENDATION — Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

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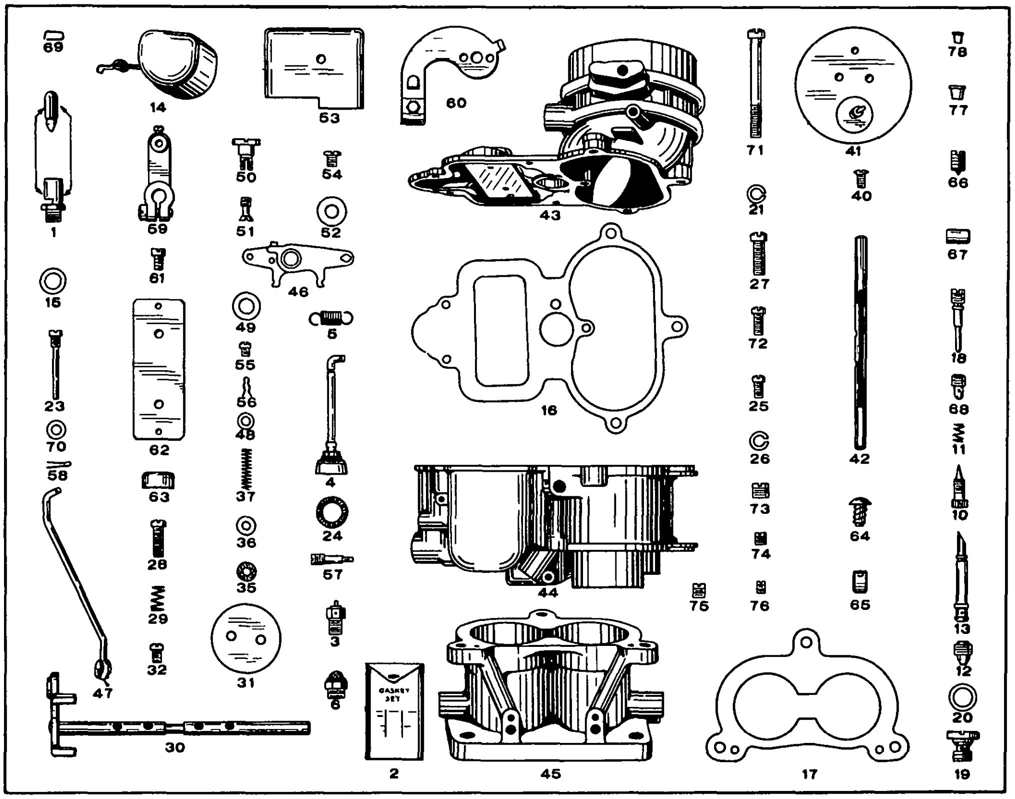
STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No.	Part No.	Part Name	
	1	P-18928	Float Needle Valve and Seat 140"	(NOT VAR.)
	2	J-4365-G	Complete Gasket Set	
	3	P-16965	Power By Pass Jet 060	(VAR.)
	4	P-17073	Pump Piston and Link	(Includes P 16960)
	5	P-17042	Spring—Pump Duration	
	6	P-16990	Pump Inlet Check Valve	
	10	P-17402	Idle Needle Valve	
	11	P-15481	Spring—Idle Needle Valve	
	12	P-17004	Metering Jet **.058"**	(VAR.)
	13	P-18969	Main Disch Jet No 28	(NOT VAR.)
	14	P-17464	Float with Lever	
	15	P-11572	Gasket—Float Needle Valve Seat	
	16	P 18239	Gasket—Air Horn	
	17	P-17393	Gasket—Main Body	
	18	P-17007	Idle Tube No 70	(NOT VAR.)
	19	P-18130	Plug—Main Disch Jet	
	20	P-60308	Gasket—Main Disch Jet Plug	
	21	P-3157	Lockwasher—Main Body Attaching Screw	
	23	P-17446	Screw—Float Fulcrum	
	24	P-16960	Spring—Pump Piston Leather Expansion	
	25	P-109	Screw—Air Horn Attaching	
	26	P-6668	Lockwasher—Air Horn Attaching Screw	
	27	P-15554	Screw—Main Body Attaching	
	28	P-15456	Screw—Throttle Stop	
	29	P-15831	Spring—Throttle Stop Screw	
	30	P-21995	Throttle Lever and Stem	
	31	P-18252	Throttle Valve (5°)	(NOT VAR.)
	32	P-16716	Screw—Throttle Valve	
	35	P-17380	Washer—Felt—Pump Link	
	36	P-17060	Washer—Splash—Pump Link	
	37	P-17753	Spring—Packing Retainer	
	40	P-4522	Screw—Choke Valve Attaching	
	41	P-18247	Choke Valve	
	42	P-22002	Stem—Choke	
	43	*P-22001	Air Horn	
	43 A	P-21996	Assy —Air Horn and Valve	
	44	P-18253	Main Body **1-3/16"** Venturi **No. 70** High Speed Bleeder	(VAR.)
	45	P-18240	Throttle Body—**No. 56-58** Idle Disch Holes	(VAR.)
	46	P-21997	Pump Lever	
	47	P-17439	Pump Rod	
	48	P-9394	Washer—Pump Link and Rod	
	49	P-17133	Washer—Pump Lever Fulcrum Screw Spring	
	50	P-16973	Screw—Pump Lever Fulcrum	
	51	P-17027	Screw—Pump Lever Fulcrum Screw Lock	
	52	P-17009	Washer—Pump Lever Fulcrum Screw	
	53	P-17397	Housing—Pump Lever	
	54	P-11531	Screw —Pump Housing Attaching	
	55	P-6970	Screw—Pump Lever Stop	
	56	P-19374	Cotter Pin—Pump Link	
	57	P-17454	Nozzle—Pump Disch **No. 68**	(VAR.)
	58	P-7170	Cotter Pin—Pump Link and Rod	
	59	P 15446	Choke Lever	
		P-3199	Choke Lever Clamp Screw	
		P-506	Wire Connector Screw	
	60	P 17040	Choke Tube Holder	
		P-16792	Holder	
		P 11561	Clamp	
		P-12868	Clamp Screw	
		P-8806	Clamp Screw Nut	
	61	P-17093	Screw—Tube Holder Attaching	
	62	*P-18292	Plate—Baffle—Air Horn	
	63	*P 17828	Cap—Float Vent	
	64	*P-9802	Rivet -Cap and Baffle Plate Attach	
	65	P-17081	Collar Choke Stem	
	66	P-16161	Set Screw—Choke Stem Collar	
	67	P-10114	Bushing—Spacer—Choke Stem	
	68	P-15477	Idle Air Bleeder—**No. 41**	(VAR.)
	69	P 17473	Clip—Float Needle Valve	
	70	P 17063	Gasket—Float Fulcrum Screw	
	71	P-18111	Screw—Main Body Attach	
	72	P-2475	Screw—Air Horn Attach	
	73	P 6406	Plug—Pump Disch Channel—No 5/16-24	
	74	P-6387	Plug—Idle Disch Holes No 10 32	
	75	P 6202	Plug—Pump Disch Channel—No 1/4-32	
	76	P 7098	Plug—Pump Channel No 8 32	
	77	P 15459	Plug—Idle Disch Drilling Hole	
	78	P-15457	Plug—Idle Air Bleeder Channel	

NOTE—For parts marked (VAR.) size must be specified when ordering

***NOTE—When ordering P 22001 it is necessary to include P 18292—Plate; P-17828—Vent Cap and P-9802 Rivet to complete the assembly of Air Horn.**

BENDIX PRODUCTS DIVISION
SOUTH BEND **OF BENDIX AVIATION CORPORATION** **INDIANA**

STROMBERG "EE-3" CARBURETOR

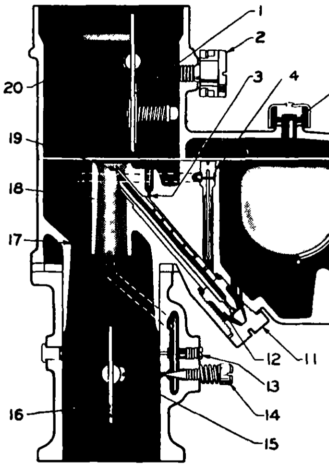
STROMBERG NO. A-17963 (CODE NO. 18-30) PIERCE ARROW SYMBOL 707789

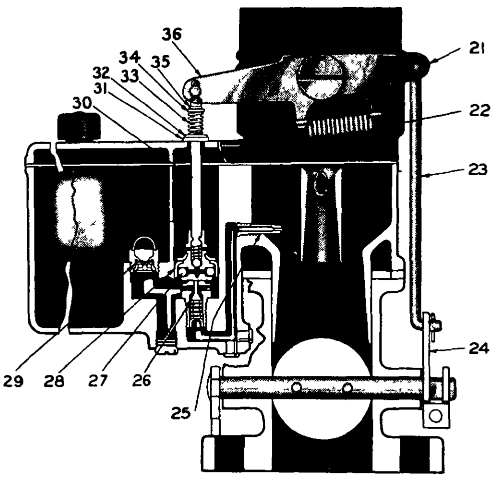
SIZE: 1½" DUAL D. D. 6-HOLE FLANGE

1937
Pierce Arrow
MODEL
438-444-447
3½"x5"—8 cyl.

PARTS ILLUSTRATED

1. Poppet Valve
2. Fulcrum Screw
3. High Speed Bleed
4. Idle Tube
5. Float Chamber Vent
6. Float
7. Float Needle Valve
8. Float Needle Valve Seat
9. Gasoline Inlet
10. Float Fulcrum Pin
11. Main Discharge Jet Plug
12. Main Metering Jet
13. Idle Discharge Plug
14. Idle Needle Valve
15. Idle Discharge Holes
16. Throttle Valve
17. Primary Venturi
18. Auxiliary Venturi
19. Main Discharge Jet
20. Choke Valve
21. Pump Lever Arm
22. Pump Arm Connecting Spring
23. Pump Rod
24. Pump Lever
25. Pump Discharge Nozzle
26. Power By-Pass Jet
27. Pump Piston Spring
28. Pump Piston
29. Check Valve
30. Pump Piston Link





31. Felt Washer
32. Splash Washer
33. Spring
34. Retainer Washer
35. Cotter Pin
36. Pump Piston Arm

Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **9/16"** below top surface of float chamber (without gasket) at 3 lbs. pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level).

MAIN METERING SYSTEM—Venturi **1-3/16"**; Main Discharge Jet **No. 28** P-18969 **(Tool T-24967)**; High Speed Bleeder **No. 70** in body. Main Metering Jet **.058"** P-17004 **(Tool T-23844)**; Use **Tool T-5164** Screw Driver for removing main jet plug. Main metering system controls the flow of fuel up to approximately 65 to 70 M. P. H.

POWER SYSTEM—Combination Power and Pump By-Pass Jet **No. .060"** P-16965 **(Tool T-20138)**. The Power Jet is brought into action at approximately 65 to 70 M. P. H. Pump piston to rest on seat of by-pass jet (less over-travel) with throttle valve opened **7/32"** + — **1/64"** drill (maximum pump setting) (measure with shank end of **7/32"** drill); bend pump rod to obtain correct setting.

ACCELERATION—Pump Discharge Nozzles **No. 68** P-17454; Pump capacity **10** to **14** c.c. per 10 fast strokes, and **14** to **18** c.c. per 10 slow strokes with pump rod link set in minimum setting. Use **Tool T-24972.** Pump action takes place during acceleration period only. Set pump at maximum stroke.

IDLE SYSTEM—Idle Discharge holes **Nos. 56-58.** With throttle valve fully closed and **No. 58** drill in idle hole, edge of valve is located **.030"** + — **.004"** from **No. 58** drill; Idle Air Bleed **No. 41** P-15477; Idle Tube **No. 70** P-17007. **Adjustment:** Adjust to smooth running, one barrel at a time, OUT to make richer and IN to make leaner; throttle at 7 to 8 M. P. H.

VACUUM SPARK CONTROL—With throttle valve fully closed and **No. 52** drill in spark hole, edge of valve is located **Flush** from **No. 52** drill.

SPECIAL TOOLS REQUIRED—T-24733 Float Adjuster Wrench; T-24967 Main Discharge Jet Remover; T-23844 Main Metering Jet Wrench; T-24970 By-Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burrette Gauge; T-24968 Handle; T-5164 Main Jet Plug Screw Driver; T-20138 By-Pass Jet Socket Wrench; T-23785 Check Valve Socket Wrench; T-20140 Float Needle Valve Seat Socket Wrench.

MOTOR TUNE-UP DATA

SPARK PLUG—.022" to .025".
Clean and adjust at regular intervals.

DISTRIBUTOR—.018" to .024".
Breaker gap set .018" to .024".
Replace if necessary.

VALVES—Intake:
Exhaust: Automatic take-up. No adjustment.

IGNITION TIMING—Stationary contacts open for No. 4 cylinder when "IGN" mark (5° or .0115" piston travel) before top dead center is in line with pointer.

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

Printed in U. S. A.

GENERAL DESCRIPTION OF "FAST IDLE" AND ITS ADJUSTMENTS

The purpose of the fast idle is to prevent the throttle valve from closing tightly while cranking the engine, and during the warming-up period. The following description and sketches show a typical installation in the various stages of operation.

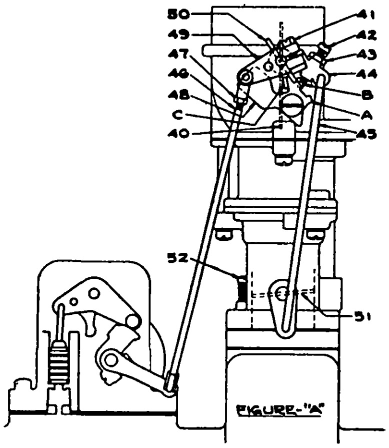


FIGURE-"A"

Through a series of levers connected to the throttle valve, choke valve and the automatic choke control, the operation of the choke control assures the driver of an almost instantaneous start under any condition—hot or cold motor. Before proceeding let it be known and remembered that with either a **Hot or Cold Motor The Carburetor Choke Valve Does Not Close Tighly Until The Throttle Is Opened Equivalent To a 20-Mile Hour Speed.** The advantage and purpose of this will be understood from the following explanation and sketches.

When a hot motor is stopped and the throttle valve "51" is allowed to close, choke valve "40" is in wide open position as shown in Fig. "A". As the engine becomes cold, the thermostat tightens, partially closing the choke valve to a predetermined distance as shown in sketch "B", the throttle still being in closed position. The movement of pin "50" against ear "C" brings ear "A" into contact with the bottom of adjustment screw "42", which governs the amount.

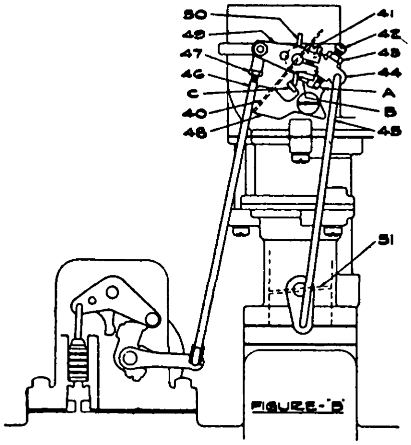


FIGURE-"B"

To make a start, **Open Throttle To 20-Mile Hour Speed.** With this movement adjusting screw "42" is raised, releasing its hold on ear "A" and allowing choke valve "40" to snap shut as shown by the dotted lines in Fig. "C". As soon as the engine starts to fire, the choke valve partially opens as shown by the solid lines, which is done by manifold vacuum drawing down piston of choke control. Immediately on opening of the throttle the fast idle stop weight "48" shifts to the position as shown in Fig. "C".

When the throttle is closed after the start has been made, it is prevented from returning to slow idle position by the fast idle adjustment screw "42" riding on ear "A" of fast idle stop weight as shown in Fig. "C". This adjustment is set at the factory for a car speed of 15-20 miles per hour with a hot motor, giving approximately, 12 M. P. H. speed with a cold motor. When readjusting with a hot motor, it is necessary to hold fast idle stop weight "48" in the position as shown in Fig. "C", having throttle closed and adjustment screw "42" riding on ear "A".

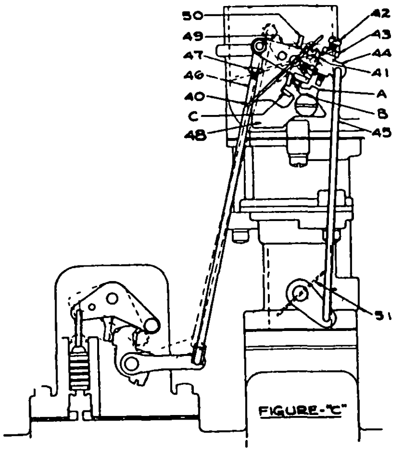


FIGURE-"C"

FAST IDLE ADJUSTMENT: Screw No. 42 to be screwed "IN" 1½ turns beyond point of contact on ear "A" with throttle valve fully closed and all slack taken out of linkage as illustrated in Fig. "D".

After the motor has become warm, the choke and fast idle will assume the position as shown originally in sketch "A".

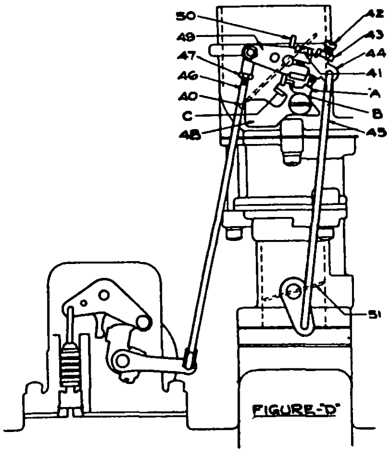


FIGURE-"D"

Should for any reason, the motor become loaded, it can be cleaned out by holding the accelerator in wide open position and allowing starter to turn over engine a few itmes. In this position choke valve is opened approximately 40% as shown in Fig. "D".

If for any reason the choke connecting rod "46" is removed and its length is changed, it can be corrected by having the choke lever "49", 66° from horizontal with the valve in closed position. Then adjust for correct length, placing ball joint in lever so that there is only .006" backlash; fasten all lock nuts securely.

The end play in the choke valve stem should be .003" on either side when the valve is in closed position, by placing a feeler gauge between the washers and the air horn.

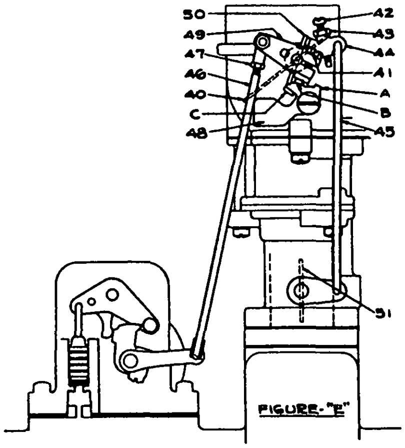
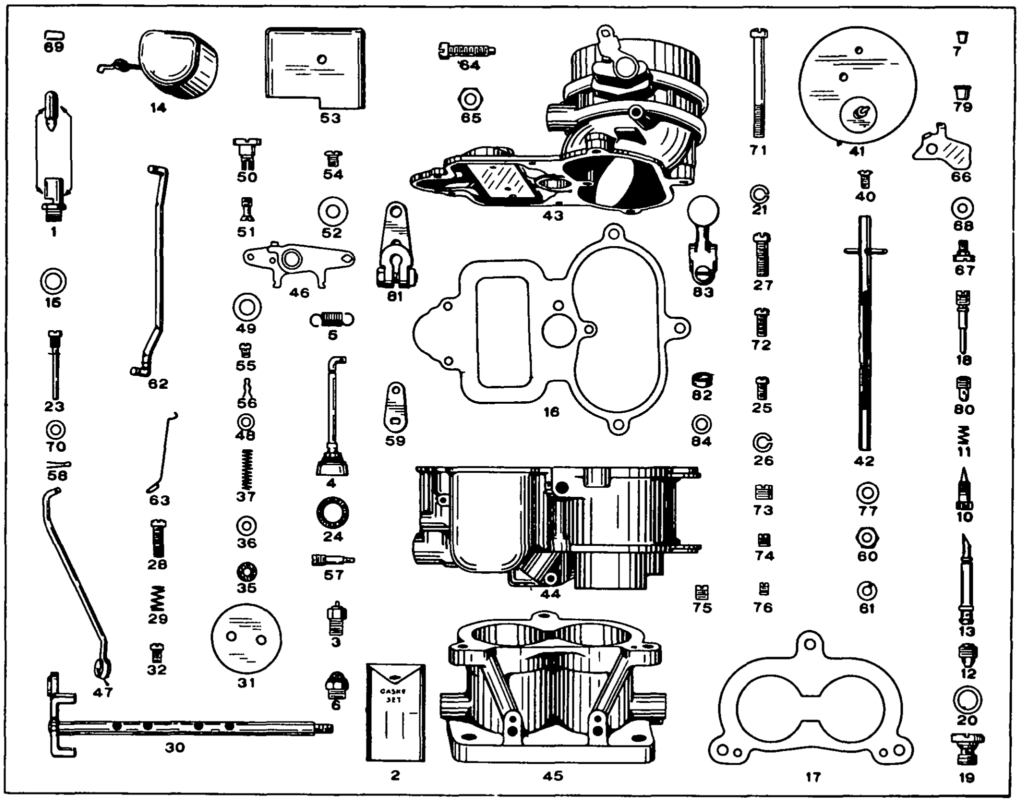


FIGURE-"E"

To assure smooth operation of the automatic choke control and the fast idle mechanism, it is of vital importance that all ball joints, levers and moving parts operat freely and do not stick or bind in any position of their travel.



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No.	Part No.	Part Name	
	1	P-18928	Float Needle Valve and seat 140	(NOT VAR.)
	2	J-4365-G	Complete Gasket Set	
	3	P-16965	Power By Pass Jet .060"	(VAR.)
	4	P-17073	Pump Piston and Link	(Includes P-16960)
	5	P-17042	Spring—Pump Duration	
	6	P-16990	Pump Inlet Check Valve	
	10	P-17402	Idle Needle Valve	
	11	P-15481	Spring—Idle Needle Valve	
	12	P 17004	Metering Jet .058"	(VAR.)
	13	P-18969	Main Disch Jet—No 28	(NOT VAR.)
	14	P-17464	Float with Lever	
	15	P-11572	Gasket—Float Needle Valve Seat	
	16	P-18239	Gasket—Air Horn	
	17	P-17393	Gasket—Main Body	
	18	P-17007	Idle Tube No 70	(NOT VAR.)
	19	P-18130	Plug—Main Discharge Jet	
	20	P-60308	Gasket—Main Discharge Jet Plug	
	21	P-3157	Lockwasher—Main Body Attaching Screw	
	22	P-18772	Lead Ball	
	23	P-17446	Screw—Fulcrum—Float Lever	
	24	P-16960	Spring—Pump Piston Leather Expansion	
	25	P-109	Screw—Air Horn Attaching	
	26	P 6668	Lockwasher—Air Horn Attaching Screw	
	27	P-15554	Screw—Main Body Attaching	
	28	P-16586	Screw—Idle Adjusting	
	29	P-15831	Spring—Idle Adjusting Screw	
	30	P 21720	Throttle Lever and Stem	
	31	P-22925	Throttle Valve (5°)	(NOT VAR.)
	32	P-16716	Screw—Throttle Valve Attaching	
	35	P-17380	Washer—Pump Link—Felt	
	36	P-22856	Washer—Pump Link—Splash	
	37	P-17753	Spring—Felt Retainer	
	40	P-4522	Screw—Choke Valve Attaching	
	41	P-18247	Choke Valve	
	42	P-19801	Choke Stem and Pin	
		P-18102	Pin	
	43	*P-18269	Air Horn with Fast Idle Lever and Bushing	
		P-17828	Vent Cap	
		P-9802	Rivet—Vent Cap Attaching	
		P-17995	Lever—Fast Idle Adjusting	
		P-17996	Bushing—Fast Idle Adjusting Lever	
	43-A	P-19785	Air Horn and Valve (Complete)	
	44	P-18253	Main Body—1-3/16" Venturi—**No. 70** H S Bleeder	(VAR.)
	45	P-22919	Throttle Body **N . 56 58** Idle Holes **No. 52** Spark Control Hole	(VAR.)

NOTE—For parts marked (VAR.) size must be specified when ordering.

Bin Location	Key No.	Part No.	Part Name	
	46	P 21997	Pump Lever	
	47	P 17439	Pump Rod	
	48	P 9394	Washer—Pump Rod	
	49	P-17133	Washer—Pump Lever Fulcrum Screw Spring	
	50	P 16973	Screw—Pump Lever Fulcrum	
	51	P 17027	Screw—Pump Lever Fulcrum Screw Lock	
	52	P-17009	Washer—Pump Lever Fulcrum Screw	
	53	P 17397 A	Housing—Pump Lever	
	54	P 11531	Screw—Pump Lever Housing Attaching	
	55	P 6970	Screw—Pump Lever Stop	
	56	P 19374	Cotter Pin—Pump Link	
	57	P-17454	Nozzle—Pump Discharge **No. 68**	(VAR.)
	58	P 7170	Cotter Pin—Pump Rod	
	59	P 18262	Lever—Fast Idle	
	60	P 2290	Nut—Fast Idle Attaching	
	61	P 1791	Lockwasher—Fast Idle Attaching Nut	
	62	P 18408	Rod—Fast Idle	
	63	P 18886	Spring—Fast Idle Rod Anti Rattle	
	64	P 17998	Screw—Fast Idle Adjusting	
	65	P 17812	Nut—Fast Idle Adjusting Screw Lock	
	66	P 17997	Lever—Fast Idle Weighted	
	67	P 17968	Screw—Fast Idle Weighted Lever Fulcrum	
	68	P 17999	Washer—Fast Idle Weighted Lever Fulc Screw	
	69	P 17473	Clip—Float Needle Valve	
	70	P 17063	Gasket—Float Fulcrum Screw	
	71	P 18111	Screw—Main Body Attaching	
	72	P 2475	Screw—Air Horn Attaching	
	73	P-6406	Plug—Pump Channel—No 5/16 24	
	74	P-7098	Plug—Pump Channel—No 8 32	
	75	P-6202	Plug—Pump Channel—No 1/4-32	
	76	P 6387	Plug—Idle Disch Hole—No 10 32	
	77	P-12400	Washer—Choke Stem	
	78	P 15457	Plug—Idle Air Channel—No 6	
	79	P-15459	Plug—Idle Disch Drilling Hole—1/4"	
	80	P 15477	Idle Air Bleeder——**No. 41**	(VAR.)
	81	P-18110	Choke Lever	
		P 18109	Lever	
		P 18300	Choke Lever Clamp Screw	
		P 18299	Choke Lever Clamp Screw Nut	
	82	P 17259	Spacer—Choke Lever	
	83	P-17599	Lever—Balance	
		P 17704	Lever	
		P-46	Lever Clamp Screw	
	84	P 4735	Washer—Choke Stem	

*When ordering **P-18269** It is Necessary to Order 2—**P 9802** Rivets and 1—**P-18292** Baffle Plate

BENDIX PRODUCTS DIVISION
SOUTH BEND **OF BENDIX AVIATION CORPORATION** **INDIANA**

STROMBERG "EE-3" CARBURETOR

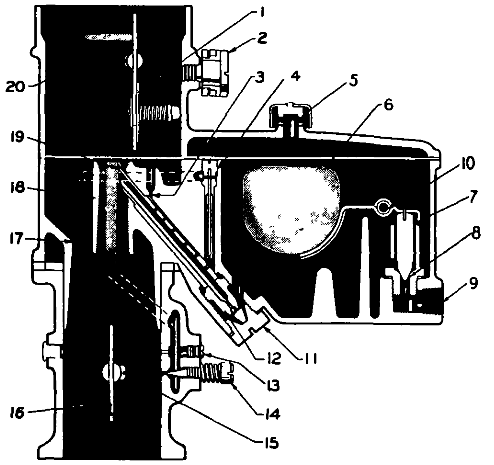
STROMBERG NO. A-17633 (CODE NO. 18-1) PIERCE ARROW SYMBOL 705227

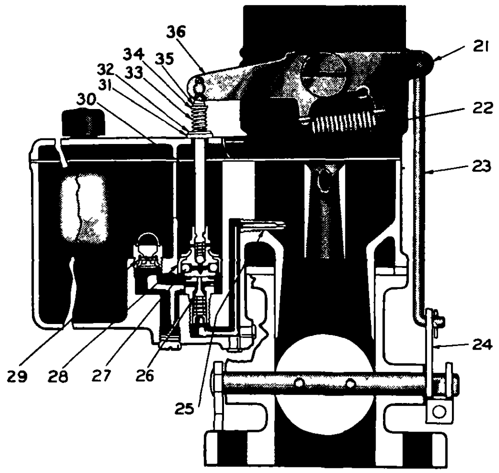
SIZE: 1½" DUAL D. D. 6-HOLE FLANGE

1935-36
Pierce Arrow
MODEL
1935—845
1936—1601
3½"x4¾" & 5"—8 cyl.

PARTS ILLUSTRATED

1. Poppet Valve
2. Fulcrum Screw
3. High Speed Bleed
4. Idle Tube
5. Float Chamber Vent
6. Float
7. Float Needle Valve
8. Float Needle Valve Seat
9. Gasoline Inlet
10. Float Fulcrum Pin
11. Main Discharge Jet Plug
12. Main Metering Jet
13. Idle Discharge Plug
14. Idle Needle Valve
15. Idle Discharge Holes
16. Throttle Valve
17. Primary Venturi
18. Auxiliary Venturi
19. Main Discharge Jet
20. Choke Valve
21. Pump Lever Arm
22. Pump Arm Connecting Spring
23. Pump Rod
24. Pump Lever
25. Pump Discharge Nozzle
26. Power By-Pass Jet
27. Pump Piston Spring
28. Pump Piston
29. Check Valve
30. Pump Piston Link
31. Felt Washer
32. Splash Washer
33. Spring
34. Retainer Washer
35. Cotter Pin
36. Pump Piston Arm





Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **9/16"** below top surface of float chamber (without gasket) at 3 lbs. pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level).

MAIN METERING SYSTEM—Venturi **1-3/16"**; Main Discharge Jet **No. 28** P-18969 **(Tool T-24967)**; High Speed Bleeder **No. 70** in body. Main Metering Jet **.058"** P-17004 **(Tool T-23844)**; Use **Tool T-5164** Screw Driver for removing main jet plug. Main metering system controls the flow of fuel up to approximately 65 to 70 M. P. H.

POWER SYSTEM—Combination Power and Pump By-Pass Jet **No. .060"** P-16965 **(Tool T-20138).** The Power Jet is brought into action at approximately 65 to 70 M. P. H. Pump piston to rest on seat of by-pass jet (less over-travel) with throttle valve opened **7/32"** + — **1/64"** drill (maximum pump setting) (measure with shank end of **7/32"** drill); bend pump rod to obtain correct setting.

ACCELERATION — Pump Discharge Nozzles **No. 68** P-17454; Pump capacity **10** to **14** c.c. per 10 fast strokes, and **14** to **18** c.c. per 10 slow strokes with pump rod link set in minimum setting. Use **Tool T-24972.** Pump action takes place during acceleration period only. Set pump at maximum stroke.

IDLE SYSTEM—Idle Discharge holes **Nos. 56-58.** With throttle valve fully closed and **No. 58** drill in idle hole, edge of valve is located **.030"** + — **.004"** from **No. 58** drill; Idle Air Bleed **No. 41** P-15477; Idle Tube **No. 70** P-17007. **Adjustment:** Adjust to smooth running, one barrel at a time, OUT to make richer and IN to make leaner; throttle at 7 to 8 M. P. H.

SPECIAL TOOLS REQUIRED—T-24733 Float Adjuster Wrench; T-24967 Main Discharge Jet Remover; T-23844 Main Metering Jet Wrench; T-24970 By-Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burrette Gauge; T-24968 Handle; T-5164 Main Jet Plug Screw Driver; T-20138 By-Pass Jet Socket Wrench; T-23785 Check Valve Socket Wrench; T-20140 Float Needle Valve Seat Socket Wrench.

MOTOR TUNE-UP DATA

SPARK PLUG—.022" to .025".
Clean and adjust at regular intervals.

DISTRIBUTOR—.018" to .024".
Breaker gap set .018" to .024".
Replace if necessary.

VALVES—Intake:
Exhaust: Automatic take-up. No adjustment.

IGNITION TIMING—Stationary contacts open for No. 4 cylinder when "IGN" mark (5° or .0115" piston travel) before top dead center is in line with pointer.

SERVICE RECOMMENDATION — Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

GENERAL DESCRIPTION OF "FAST IDLE" AND ITS ADJUSTMENTS

The purpose of the fast idle is to prevent the throttle valve from closing tightly while cranking the engine, and during the warming-up period. The following description and sketches show a typical installation in the various stages of operation.

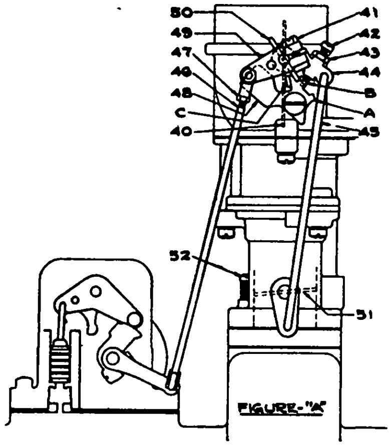


FIGURE-"A"

Through a series of levers connected to the throttle valve, choke valve and the automatic choke control, the operation of the choke control assures the driver of an almost instantaneous start under any condition—hot or cold motor. Before proceeding let it be known and remembered that with either a **Hot or Cold Motor The Carburetor Choke Valve Does Not Close Tighly Until The Throttle Is Opened Equivalent To a 20-Mile Hour Speed.** The advantage and purpose of this will be understood from the following explanation and sketches.

When a hot motor is stopped and the throttle valve "51" is allowed to close, choke valve "40" is in wide open position as shown in Fig. "A". As the engine becomes cold, the thermostat tightens, partially closing the choke valve to a predetermined distance as shown in sketch "B", the throttle still being in closed position. The movement of pin "50" against ear "C" brings ear "A" into contact with the bottom of adjustment screw "42", which governs the amount.

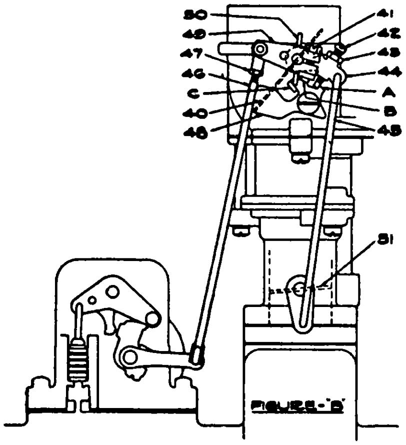


FIGURE-"B"

To make a start, **Open Throttle To 20-Mile Hour Speed.** With this movement adjusting screw "42" is raised, releasing its hold on ear "A" and allowing choke valve "40" to snap shut as shown by the dotted lines in Fig. "C". As soon as the engine starts to fire, the choke valve partially opens as shown by the solid lines, which is done by manifold vacuum drawing down piston of choke control. Immediately on opening of the throttle the fast idle stop weight "48" shifts to the position as shown in Fig. "C".

When the throttle is closed after the start has been made, it is prevented from returning to slow idle position by the fast idle adjustment screw "42" riding on ear "A" of fast idle stop weight as shown in Fig "C" This adjustment is set at the factory for a car speed of 15 20 miles per hour with a hot motor, giving approximately, 12 M P H speed with a cold motor When readjusting with a hot motor, it is necessary to hold fast idle stop weight "48" in the position as shown in Fig "C", having throttle closed and adjustment screw "42' riding on ear "A"

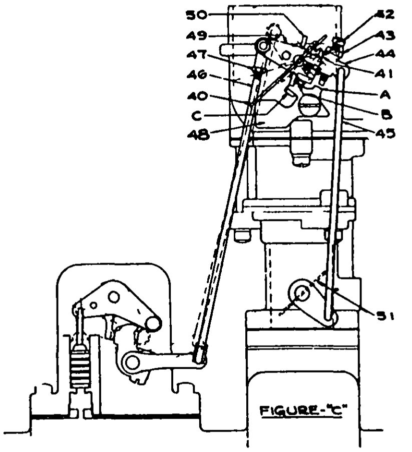


FIGURE-"C"

FAST IDLE ADJUSTMENT: Screw No 42 to be screwed "IN" 1½ turns beyond point of contact on ear "A" with throttle valve fully closed and all slack taken out of linkage as illustrated in Fig "D".

After the motor has become warm, the choke and fast idle will assume the position as shown originally in sketch "A"

Should for any reason, the motor become loaded, it can be cleaned out by holding the accelerator in wide open position and allowing starter to turn over engine a few times In this position choke valve is opened approximately 40% as shown in Fig "D".

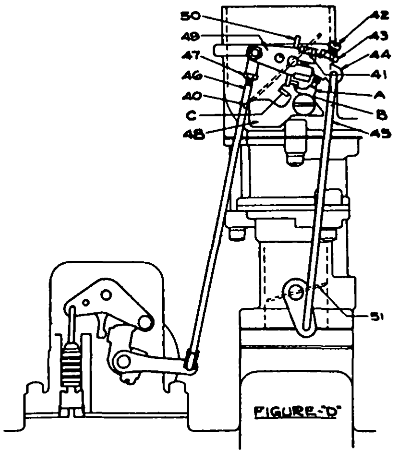


FIGURE-"D"

If for any reason the choke connecting rod "46" is removed and its length is changed, it can be corrected by having the choke lever "49", 66° from horizontal with the valve in closed position Then adjust for correct length, placing ball joint in lever so that there is only 006" backlash, fasten all lock nuts securely.

The end play in the choke valve stem should be 003' on either side when the valve is in closed position, by placing a feeler gauge between the washers and the air horn

To assure smooth operation of the automatic choke control and the fast idle mechanism, it is of vital importance that all ball joints, levers and moving parts operate freely and do not stick or bind in any position of their travel.

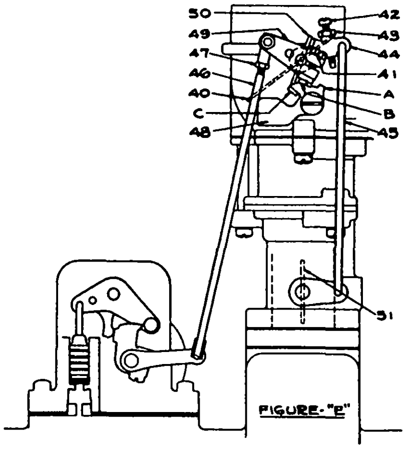
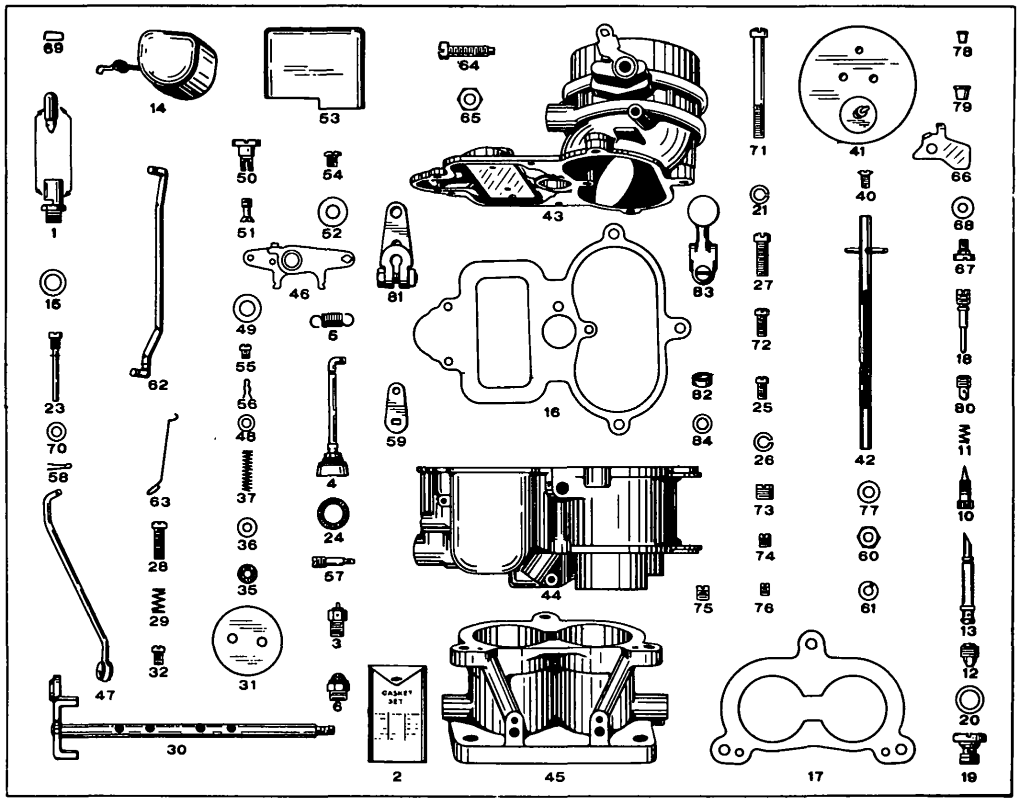


FIGURE-"E"



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No.	Part No.	Part Name
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	2	J-4365-G	Complete Gasket Set
	3	P-16965	Power By-Pass Jet **.060"** ....**(VAR.)**
	4	P-17073	Pump Piston and Link ....**(Includes P-16960)**
	5	P-17042	Spring—Pump Duration
	6	P-16990	Pump Inlet Check Valve
	10	P-17402	Idle Needle Valve
	11	P-15481	Spring—Idle Needle Valve
	12	P-17004	Metering Jet **.058"** ....**(VAR.)**
	13	P-18969	Main Disch. Jet—No. 28 ....**(NOT VAR.)**
	14	P-17464	Float with Lever
	15	P-11572	Gasket—Float Needle Valve Seat
	16	P-18239	Gasket—Air Horn
	17	P-17393	Gasket—Main Body
	18	P-17007	Idle Tube No. 70 ....**(NOT VAR.)**
	19	P-18130	Plug—Main Disch. Jet
	20	P-60308	Gasket—Main Disch. Jet Plug
	21	P-3157	Lockwasher—Main Body Attach. Screw
	23	P-17446	Screw—Fulcrum—Float Lever
	24	P-16960	Spring—Pump Piston Leather Expansion
	25	P-109	Screw—Air Horn Attach.
	26	P-6668	Lockwasher—Air Horn Attach. Screw
	27	P-15554	Screw—Main Body Attach.
	28	P-16586	Screw—Throttle Stop
	29	P-15831	Spring—Throttle Stop Screw
	30	P-21720	Throttle Lever and Stem
	31	P-18252	Throttle Valve (5°) ....**(NOT VAR.)**
	32	P-16716	Screw—Throttle Valve Attach.
	35	P-17380	Washer—Pump Link—Felt
	36	P-22856	Washer—Pump Link—Splash
	37	P-17753	Spring—Felt Retainer
	40	P-4522	Screw—Choke Valve Attach.
	41	P-18247	Choke Valve
	42	P-19801	Choke Stem and Pin
		P-18102	Pin
	43	*P-18269	Air Horn with Fast Idle Lever & Bushing
		P-17828	Vent Cap
		P-9802	Rivet—Vent Cap Attach.
		P-17995	Lever—Fast Idle Adj.
		P-17996	Bushing—Fast Idle Adj. Lever
	43-A	P-19785	Air Horn and Valve (Complete)
	44	P-18253	Main Body—**1-3/16"** Venturi—**No. 70** High Speed Bleeder ....**(VAR.)**
	45	P-18240	Throttle Body—**No. 56-58** Idle Holes .... **(VAR.)**
	46	P-21997	Pump Lever
	47	P-17439	Pump Rod
	48	P-9394	Washer—Pump Rod
	49	P-17133	Washer—Pump Lever Fulcrum Screw Spring
	50	P-16973	Screw—Pump Lever Fulcrum
	51	P-17027	Screw—Pump Lever Fulcrum Screw Lock
	52	P-17009	Washer—Pump Lever Fulcrum Screw
	53	P-17397-A	Housing—Pump Lever
	54	P-11531	Screw—Pump Lever Housing Attach.
	55	P-6970	Screw—Pump Lever Stop
	56	P-19374	Cotter Pin—Pump Link
	57	P-17454	Nozzle—Pump Disch. **No. 68** ....**(VAR.)**
	58	P-7170	Cotter Pin—Pump Rod
	59	P-18262	Lever—Fast Idle
	60	P-2290	Nut—Fast Idle Attach.
	61	P-1791	Lockwasher—Fast Idle Attach. Nut
	62	P-18408	Rod—Fast Idle
	63	P-18886	Spring—Fast Idle Rod Anti-Rattle
	64	P-17998	Screw—Fast Idle Adj.
	65	P-17812	Nut—Fast Idle Adj. Screw Lock
	66	P-17997	Lever—Fast Idle Weighted
	67	P-17968	Screw—Fast Idle Weighted Lever Fulcrum
	68	P-17999	Washer—Fast Idle Weighted Lever Fulcrum Screw
	69	P-17473	Clip—Float Needle Valve
	70	P-17063	Gasket—Float Fulcrum Screw
	71	P-18111	Screw—Main Body Attach.
	72	P-2475	Screw—Air Horn Attach.
	73	P-6406	Plug—Pump Channel—No. 5/16-24
	74	P-7098	Plug—Pump channel—No. 8-32
	75	P-6202	Plug—Pump Channel—No. 1/4-32
	76	P-6387	Plug—Idle Disch. Hole—No. 10-32
	77	P-12400	Washer—Choke Stem
	78	P-15457	Plug—Idle Air Channel—No. 6
	79	P-15459	Plug—Idle Disch. Drilling Hole—1/4"
	80	P-15477	Idle Air Bleeder—**No. 41** ....**(VAR.)**
	81	P-18110	Choke Lever
		P-18109	Lever
		P-18300	Choke Lever Clamp Screw
		P-18299	Choke Lever Clamp Screw Nut
	82	P-17259	Spacer—Choke Lever
	83	P-17599	Lever—Balance
		P-17704	Lever
		P-46	Lever Clamp Screw
	84	P-4735	Washer—Choke Stem

NOTE—For parts marked (VAR.) size must be specified when ordering.

*When ordering **P-18269 it is necessary** to order **2—P-9802** Rivets and **1—P-18292** Baffle plate.

BENDIX PRODUCTS DIVISION

SOUTH BEND **OF BENDIX AVIATION CORPORATION** **INDIANA**

STROMBERG MODEL "C" AUTOMATIC CHOKE

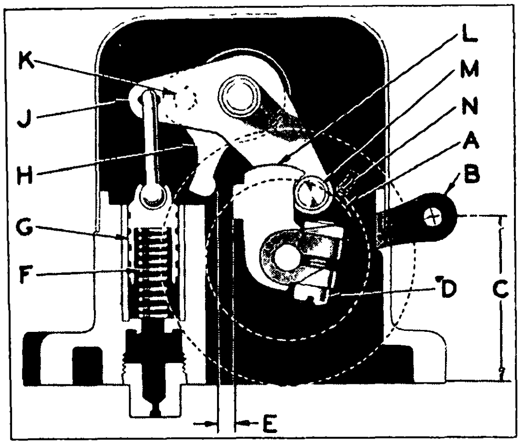
STROMBERG NO. A-17630 PIERCE ARROW SYMBOL 705226

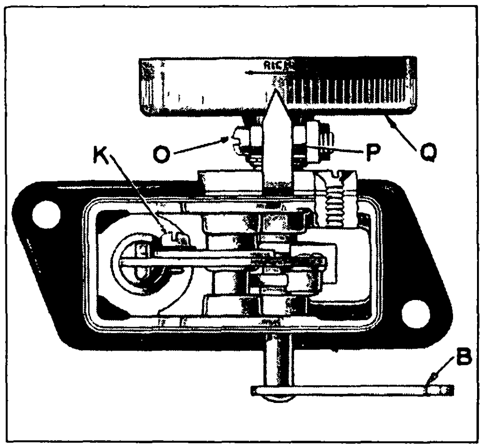
(For use with Pierce Arrow EE-3 Carburetor Stromberg Nos. A-17633 and A-17963)

1935-37
Pierce Arrow
MODEL
1935—845
1936—1601
1937—438, 444 and 447
3½"x4¾" & 5"—8 cyl.

PARTS ILLUSTRATED

A Thermostat
B Control Lever
C Distance between lever hole and base of choke (See instructions)
D Cam Clamp Lever
E Distance between lever and cam (See instructions)
F Vacuum Piston Spring
G Vacuum Piston
H Kick Lever
J. Vacuum Piston Lever
K Kick Lever Adj. Screw
L Locking Cam
M Piston Lever Roller
N Thermostat Case Prong
O Case Clamp Screw
P Pointer
Q Thermostat Case





GENERAL DESCRIPTION

The Stromberg Automatic Choke Control is a device that eliminates all methods of hand operated chokes. Its operation is wholly governed by vacuum and heat of the engine, which makes it positive acting under any conditions It acts quicker than any choke can be operated by hand and allows the carburetor choke valve to open the correct amount during the warming-up period of the engine

PRINCIPLE OF OPERATION

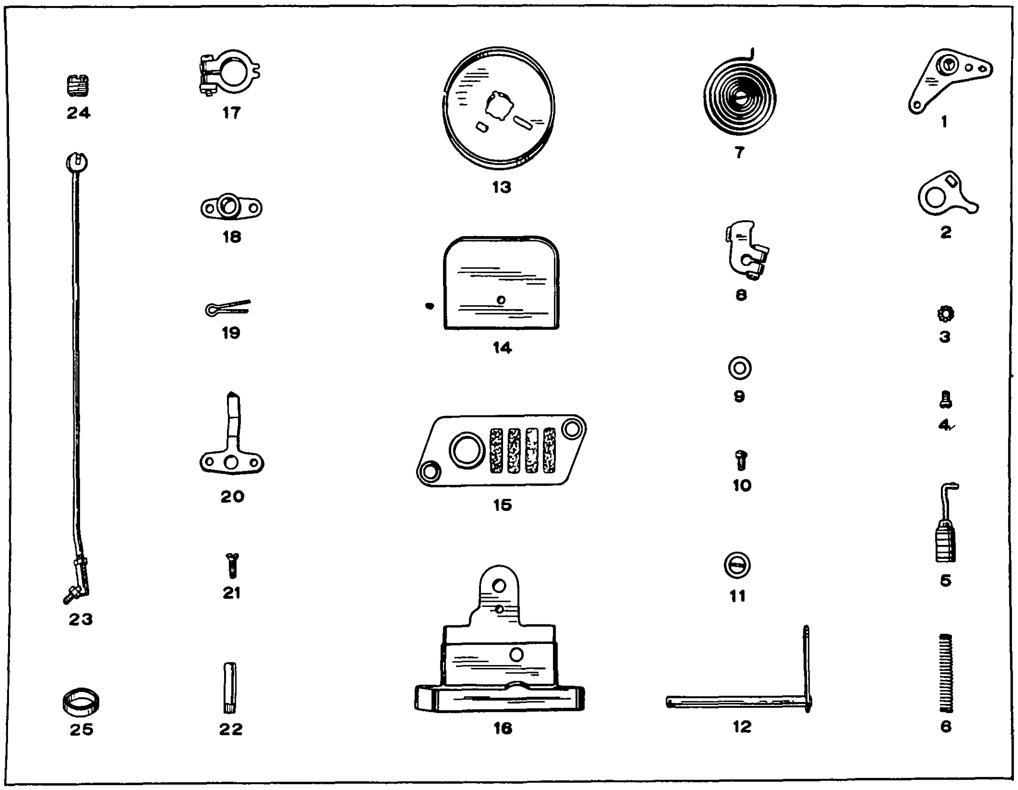
The thermostat "A" returns the choke valve in the carburetor to closed position when the thermostat reaches a temperature of 70°. The choke valve is closed during the cranking of the engine and held so by the locking of roller "M" against cam "L". When the engine fires and a manifold vacuum is created, vacuum piston "G" is pulled partly down, unlocking cam "L" and roller "M". As soon as the engine fires steadily and an even vacuum is present, piston travels the remaining distance Lever "H" then comes in contact with cam "L" opening the choke a pre-determined distance against the tension of thermostat spring. The distance between lever and cam is adjustable by screw "K". When the motor has reached a water temperature of 120°, the choke valve should be in wide open position.

ADJUSTMENTS

The choke is not a delicate instrument, but when servicing, it should be given the same consideration as any fine part of the engine.

For adjusting the Automatic Choke Control for any reason whatever, it can be quickly and accurately done by following very carefully the procedure outlined below:

1. Remove automatic choke from motor by disassembling the carburetor choke rod and attaching screws.
2. Under any conditions, the thermostat "A" should be allowed to cool or warm until it has reached a temperature of 70°. This is very important, and if the car has been running, it is necessary to allow the automatic choke to stand long enough to cool off, or on the other hand, if the place or garage where the choke is to be adjusted is colder than 70°, the choke should be taken into a room of normal temperature.
3. Remove housing cover and see that all working parts operate freely.
4. With roller "M" in locked position against first notch of cam "L", distance "C" should be 1-1/16"; if it is not so, it can be readjusted by loosening screw "D" and setting accordingly.
5. Distance "E" is set at the factory to a No 17 drill with the cam in locked position. It can be readjusted by loosening screw "K" and set to the proper distance.
6. Unhook thermostat "A" from prong "N". Loosen clamp screw "O", and revolve thermostat case "Q" so that the zero marking is under the pointer. When in this position, the hook of the thermostat should be flush with the prong.
7. Place hook on prong and revolve case 10 graduations rich. Fasten clamp screw "O" securely.
8. Piston "G" should operate freely and show no signs of sticking in any position.
9. Assemble cover on body.
10. Assemble choke control on manifold making certain gasket is in good condition. Draw down bolts evenly.
11. Assemble connecting rod between choke control and carburetor so that there is only .006" backlash between levers. If it is necessary to adjust, loosen clamp screw of carburetor choke lever.
12. Assemble air cleaner so that it will not interfere with the carburetor choke lever.



SERVICE REPLACEMENT PARTS LIST

Key No	Part No	Part Name
1	P 17978	Piston Lever
2	P 17992	Kick Lever
3	P 18043	Lockwasher—Kick Lever Adj Screw
4	P 2369	Screw—Kick Lever Adjusting
5	P 17976	Piston and Link
6	P 18311	Spring
7	P 16817	Thermostat
8	P 18310	Cam
	P 18309	Cam
	P 18299	Cam Clamp Screw Nut
	P 18300	Cam Clamp Screw
9	P 16426	Washer
10	P 2866	Screw Cover Attach
11	P 17816	Bushing
12	P 19804	Lever and Stem
13	P 17991	Housing
14	P 17983	Cover
15	P 19313	Gasket—Flange

Key No	Part No	Part Name
16	P 17972	Main Body
17	P 16893	Clamp
	P 16894	Clamp
	P 4517	Clamp Screw Nut
	P 9025	Clamp Screw
18	P 16824	Bracket
19	P 4	Cotter Pin
20	P 16829	Pointer
21	P 16887	Screw—Bracket Attaching
22	P 17985	Stem
23	P 18259	Choke Rod
	P 18260	Rod
	P 16639	Rod Nut
	P 17761	Ball Joint
24	P 6387	Plug—No 10 32
25	P 17902	Bushing

NOTE—For parts marked (VAR) size must be specified when ordering.

BENDIX PRODUCTS DIVISION
SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

STROMBERG "EE-3" CARBURETOR

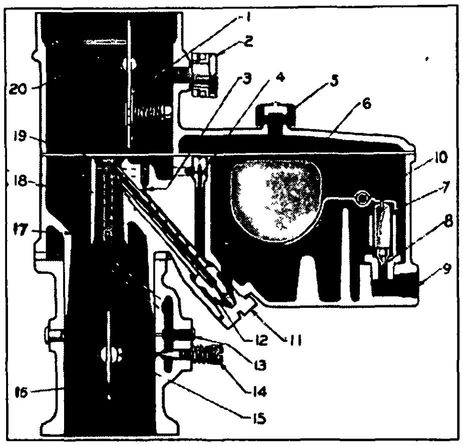
STROMBERG NO. A-17843 (CODE NO. 18-21A) PIERCE ARROW SYMBOL 706074

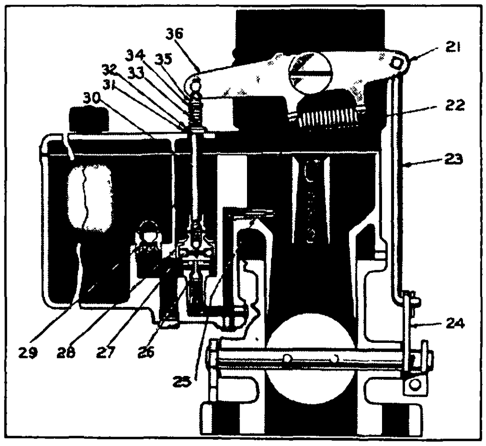
SIZE: 1½" DUAL D. D. 6-HOLE FLANGE

1936
Pierce Arrow
MODEL
1601
3½"x5"—8 cyl.

PARTS ILLUSTRATED

1 Poppet Valve
2 Fulcrum Screw
3 High Speed Bleed
4 Idle Tube
5 Float Chamber Vent
6 Float
7 Float Needle Valve
8 Float Needle Valve Seat
9 Gasoline Inlet
10 Float Fulcrum Pin
11 Main Discharge Jet Plug
12 Main Metering Jet
13 Idle Discharge Plug
14 Idle Needle Valve
15 Idle Discharge Holes
16 Throttle Valve
17 Primary Venturi
18 Auxiliary Venturi
19 Main Discharge Jet
20 Choke Valve
21 Pump Lever Arm
22 Pump Arm Connecting Spring
23 Pump Rod
24 Pump Lever
25 Pump Discharge Nozzle
26 Power By-Pass Jet
27 Pump Piston Spring
28 Pump Piston
29 Check Valve
30 Pump Piston Link
31 Felt Washer
32 Splash Washer
33 Spring
34 Retainer Washer
35 Cotter Pin
36 Pump Piston Arm





Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **9/16"** below top surface of float chamber (without gasket) at 3 lbs. pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level).

MAIN METERING SYSTEM—Venturi **1-3/16"**; Main Discharge Jet **No. 28** P-18969 **(Tool T-24967)**; High Speed Bleeder **No. 70** in body. Main Metering Jet **.052"** P-17004 **(Tool T-23844)**; Use **Tool T-5164** Screw Driver for removing main jet plug. Main metering system controls the flow of fuel up to approximately 65 to 70 M. P. H.

POWER SYSTEM—Combination Power and Pump By-Pass Jet **No. .060"** P-16965 **(Tool T-20138).** The Power Jet is brought into action at approximately 65 to 70 M. P. H. Pump piston to rest on seat of by-pass jet (less over-travel) with throttle valve opened **7/32"** + — **1/64"** drill (maximum pump setting) (measure with shank end of **7/32"** drill); bend pump rod to obtain correct setting.

ACCELERATION—Pump Discharge Nozzles **No. 68** P-17454; Pump capacity **10** to **14** c.c. per 10 fast strokes, and **14** to **18** c.c. per 10 slow strokes with pump rod link set in minimum setting. Use **Tool T-24972.** Pump action takes place during acceleration period only. Set pump for maximum stroke.

IDLE SYSTEM—Idle Discharge holes **Nos. 56-58.** With throttle valve fully closed and **No. 58** drill in idle hole, edge of valve is located **.030"** + — **.004"** from **No. 58** drill; Idle Air Bleed **No. 41** P-15477; Idle Tube **No. 70** P-17007. **Adjustment:** Adjust to smooth running, one barrel at a time, OUT to make richer and IN to make leaner; throttle at 7 to 8 M. P. H.

SPECIAL TOOLS REQUIRED—T-24733 Float Adjuster Wrench; T-24967 Main Discharge Jet Remover; T-23844 Main Metering Jet Wrench; T-24970 By-Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burrette Gauge; T-24968 Handle; T-5164 Main Jet Plug Screw Driver; T-23785 Check Valve Socket Wrench; T-20138 By-Pass Jet Socket Wrench; T-20140 Float Needle Valve Seat Socket Wrench.

MOTOR TUNE-UP DATA

SPARK PLUG—.025".
Clean and adjust at regular intervals.

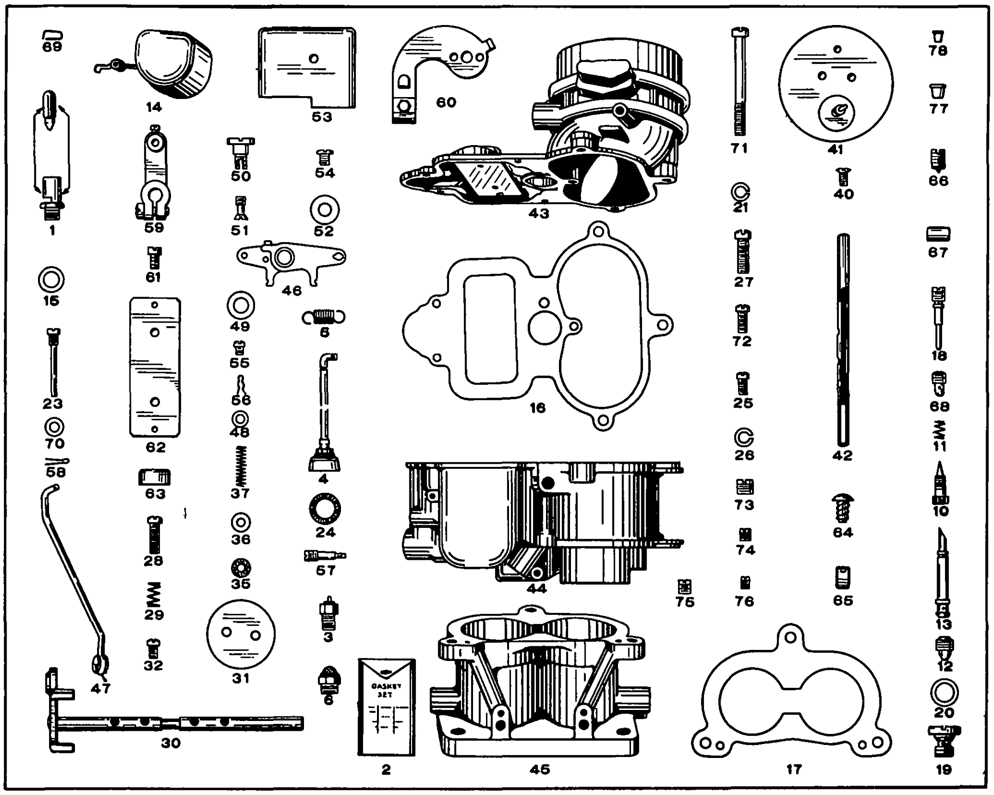
DISTRIBUTOR—.018" to .024".
Breaker gap set .018" to .024".
Replace if necessary.

VALVES—Intake:
Exhaust: Automatic take-up. No adjustment.

IGNITION TIMING—Stationary contacts open for No. 4 cylinder when "IGN" mark (5° or .0115" piston travel) before top dead center is in line with pointer. Full advance, button in.

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No.	Part N .	Part Name
	1	**P-18928**	Float Needle Valve & Seat— 140 **(NOT VAR.)**
	2	**J-4365-G**	Complete Gasket Set
	3	**P-16965**	Power By Pass Jet 060 **(VAR.)**
	4	**P-17073**	Pump Piston and Link **(Includes P-16960)**
	5	**P-17042**	Spring—Pump Duration
	6	**P-16990**	Pump Inlet Check Valve
	10	**P-17402**	Idle Needle Valve
	11	**P-15481**	Spring—Idle Needle Valve
	12	**P-17004**	Metering Jet .052" **(VAR.)**
	13	**P-18969**	Main Disch Jet No 28 **(NOT VAR.)**
	14	**P-17464**	Float with Lever
	15	**P-11572**	Gasket—Float Needle Valve Seat
	16	**P-18239**	Gasket—Air Horn
	17	**P-17393**	Gasket—Main Body
	18	**P-17007**	Idle Tube No 70 **(NOT VAR.)**
	19	**P-18130**	Plug—Main Disch Jet
	20	**P-60308**	Gasket—Main Disch Jet Plug
	21	**P-3157**	Lockwasher—Main Body Attach Screw
	23	**P-17446**	Screw—Fulcrum—Float Lever
	24	**P-16960**	Spring—Pump Piston Leather Expansion
	25	**P-109**	Screw—Air Horn Attach
	26	**P-6668**	Lockwasher—Air Horn Attach Screw
	27	**P-15554**	Screw—Main Body Attach
	28	**P-15456**	Screw—Throttle Stop
	29	**P-15831**	Spring—Throttle Stop Screw
	30	**P 21995**	Throttle Lever and Stem
	31	**P-18252**	Throttle Valve (5°) **(NOT VAR.)**
	32	**P 16716**	Screw— Throttle Valve
	35	**P-17380**	Washer—Felt—Pump Link
	36	**P 22856**	Washer—Splash—Pump Link
	37	**P 17753**	Spring—Packing Retainer
	40	**P 4522**	Screw—Choke Valve Attach
	41	**P 18247**	Choke Valve
	42	**P-22002**	Stem—Choke
	43	***P-22001**	Air Horn
	43-A	**P-21996**	Assy —Air Horn and Valve
	44	**P-18253**	Main Body **1-3/16"** Venturi—**No. 70** High Speed Bleeder **(VAR.)**
	45	**P-18240**	Throttle Body—**No. 56-58** Idle Disch Holes **(VAR.)**
	46	**P-21997**	Pump Lever

NOTE—For parts marked (VAR.) size must be specified when rdering.

Bin Location	Key No.	Part No.	Part Name
	47	**P-17439**	Pump Rod
	48	**P-9394**	Washer—Pump Link & Rod
	49	**P-17133**	Washer—Pump Lever Fulcrum Screw Spring
	50	**P-16973**	Screw—Pump Lever Fulcrum
	51	**P-17027**	Screw—Pump Lever Fulcrum Screw Lock
	52	**P-17009**	Washer—Pump Lever Fulcrum Screw
	53	**P-17397**	Housing—Pump Lever
	54	**P-11531**	Screw—Pump Housing Attach
	55	**P-6970**	Screw—Pump Lever Stop
	56	**P-19374**	Cotter Pin—Pump Link
	57	**P-17454**	Nozzle—Pump Disch **No. 68** **(VAR.)**
	58	**P-7170**	Cotter Pin—Pump Link and Rod
	59	**P-15446**	Choke Lever
		P-3199	Choke Lever Clamp Screw
		P-506	Wire Connector Screw
	60	**P-17040**	Choke Tube Holder
		P-16792	Holder
		P-11561	Clamp
		P-12868	Clamp Screw
		P-8806	Clamp Screw Nut
	61	**P-17093**	Screw—Tube Holder Attach
	62	***P-18292**	Plate—Baffle—Air Horn
	63	***P-17828**	Cap—Float Vent
	64	***P-9802**	Rivet—Cap and Baffle Plate Attach
	65	**P-17081**	Collar—Choke Stem
	66	**P-16161**	Set Screw—Choke Stem Collar
	67	**P-10114**	Bushing—Spacer—Choke Stem
	68	**P-15477**	Idle Air Bleeder—**No. 41** **(VAR.)**
	69	**P 17473**	Clip—Float Needle Valve
	70	**P-17063**	Gasket—Float Fulcrum Screw
	71	**P-18111**	Screw—Main Body Attach
	72	**P-2475**	Screw—Air Horn Attach
	73	**P-6406**	Plug—Pump Disch Channel—No 5/16 24
	74	**P 6387**	Plug—Idle Disch Holes No 10 32
	75	**P-6202**	Plug—Pump Disch Channel—No 1/4-32
	76	**P-7098**	Plug—Pump Channel No 8-32
	77	**P-15459**	Plug—Idle Disch Drilling Hole
	78	**P-15457**	Plug—Idle Air Bleed Channel

*NOTE When ordering P-22001 it is necessary to include P-18292 Plate P-17828-Vent Cap and P-9802 Rivet to complete the Assembly of Air Horn

BENDIX PRODUCTS DIVISION

SOUTH BEND **OF BENDIX AVIATION CORPORATION** **INDIANA**

STROMBERG "EX-32" CARBURETOR

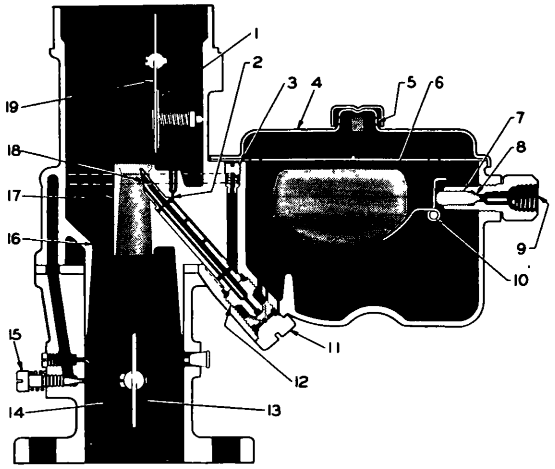
STROMBERG NO. A-16093 (LEFT CARB.) (CODE NO. 18-4) PIERCE ARROW SYMBOL 702751

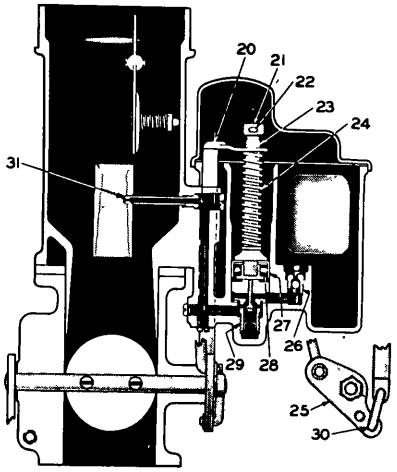
SIZE: 1½" D. D. S.A.E. 2-15/16" FLANGE CENTERS

1936
Pierce Arrow
MODEL
1602-3
3½"x4"—12 cyl.

PARTS ILLUSTRATED

1. Poppet Valve
2. High Speed Bleed
3. Idle Tube
4. Float Chamber Cover
5. Float Chamber Vent
6. Float
7. Float Needle Valve
8. Float Needle Valve Seat
9. Gasoline Inlet
10. Float Fulcrum Pin
11. Main Discharge Jet Plug
12. Main Metering Jet
13. Throttle Valve
14. Idle Discharge Holes
15. Idle Needle Valve
16. Primary Venturi
17. Auxiliary Venturi
18. Main Discharge Jet
19. Choke Valve
20. Pump Rod
21. Power Adjustment Nut
22. Cotter Pin
23. Piston Connecting Rod
24. Connecting Rod Spring
25. Pump Lever
26. Check Valve
27. Pump Piston
28. Pump Piston Spring
29. Power By-Pass Jet
30. Pump Lever Link
31. Pump Discharge Nozzle





Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **9/16"** below top surface of float chamber (without gasket) at 3 lbs. pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level).

MAIN METERING SYSTEM—Venturi **1-3/16"**; Main Discharge Jet **No. 28** P-17005 **(Tool T-24967)**; High Speed Bleeder **No. 70** in body. Main Metering Jet **.057"** P-17004 **(Tool T-23844)**; Use **Tool T-5164** Screw Driver for removing main jet plug. Main metering system controls the flow of fuel up to approximately 65 to 70 M. P. H.

POWER SYSTEM—Combination Power and Pump By-Pass **4 No. 56** P-18149. The Power Jet is brought into action at approximately 65 to 70 M. P. H. Pump piston to rest on seat of by-pass jet (less overtravel) with throttle valve opened **27/64"** + — **1/64"** drill (maximum pump setting) (measure with shank end of **27/64"** drill); adjust pump stem nut to obtain correct setting.

ACCELERATION — Pump Discharge Nozzle **No. 68** P-18126; Pump capacity **17** to **19** c.c. per 10 strokes with pump rod link set in maximum setting. Use **Tool T-24972.** Pump action takes place during acceleration period only.

IDLE SYSTEM—Idle Discharge holes **Nos. 56-58.** With throttle valve fully closed and **No. 58** drill in idle hole, edge of valve is located **.012"** + — **.004"** from **No. 58** drill; Idle Air Bleed **No. 48** P-15477; Idle Tube **No. 70** P-17007. **Adjustment:** Adjust to smooth running, OUT to make richer and IN to make leaner; throttle at 7 to 8 M. P. H.

FLANGE GASKET—P-4753.

SPECIAL TOOLS REQUIRED—T-24733 Float Adjuster Wrench; T-24967 Main Discharge Jet Remover; T-23844 Main Metering Jet Wrench; T-24970 By-Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burrette Gauge; T-24968 Handle; T-5164 Main Jet Plug Screw Driver.

MOTOR TUNE-UP DATA

SPARK PLUG—.025".
Clean and adjust at regular intervals.

DISTRIBUTOR—.018" to .024".
Breaker gap set .018" to .024".
Replace if necessary.

VALVES—Intake :
Exhaust: **Automatic take-up. No adjustment.**

IGNITION TIMING—Stationary contacts to open 5° before top dead center of No. 1 cylinder when mark on flywheel is in line with pointer at inspection hole. Manual spark fully advanced. Panel button in.

SERVICE RECOMMENDATION — Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

GENERAL DESCRIPTION OF "FAST IDLE" AND ITS ADJUSTMENTS

The purpose of the fast idle is to prevent the throttle valve from closing tightly while cranking the engine, and during the warming-up period. The following description and sketches show a typical installation in the various stages of operation.

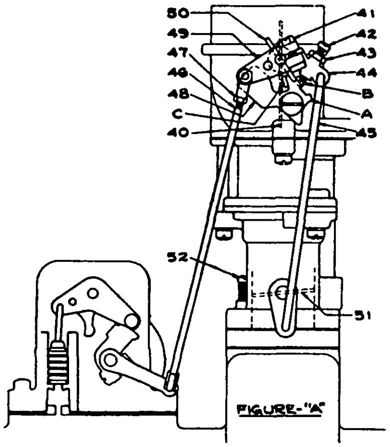


FIGURE-"A"

Through a series of levers connected to the throttle valve, choke valve and the automatic choke control, the operation of the choke control assures the driver of an almost instantaneous start under any condition—hot or cold motor. Before proceeding let it be known and remembered that with either a **Hot or C ld M tor The Carburetor Choke Valve Does Not Close Tighly Until The Throttle Is Op n d Equivalent To a 20-Mile Hour Speed.** The advantage and purpose of this will b understood from the following explanation and sketches.

When a hot motor is stopped and the throttle valve "51" is allowed to close, choke valve "40" is in wide open position as shown in Fig. "A". As the engine becomes cold, the thermostat tightens, partially closing the choke valve to a predetermined distance as shown in sketch "B", the throttle still being in closed position. The movement of pin "50" against ear "C" brings ear "A" into contact with the bottom of adjustment screw "42", which governs the amount.

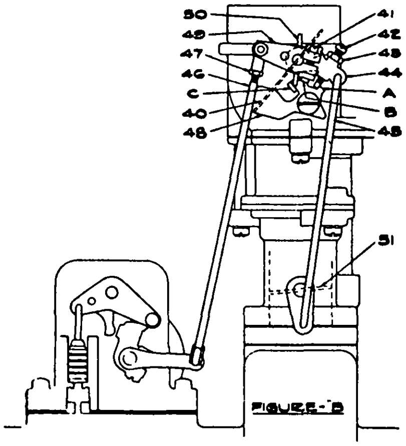


FIGURE-"B"

To make a start, **Open Throttle To 20-Mile Hour Speed.** With this movement adjusting screw "42" is raised, releasing its hold on ear "A" and allowing chok valve "40" to snap shut as shown by the dotted lines in Fig. "C". As soon as th engine starts to fire, the choke valve partially opens as shown by the solid lines, which is done by manifold vacuum drawing down piston of choke control. Immediately on opening of the throttle the fast idle stop weight "48" shifts to th position as shown in Fig. "C".

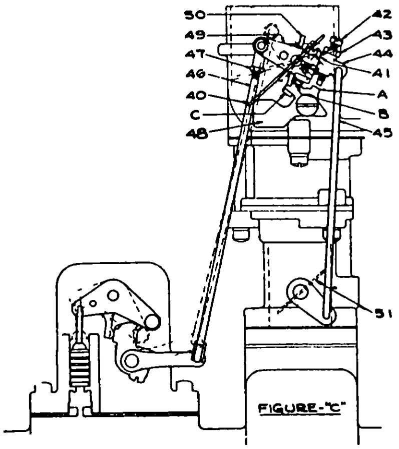


FIGURE-"C"

When the throttle is closed after the start has been made, it is prevented from returning to slow idle position by the fast idle adjustment screw "42" riding on ear "A" of fast idle stop weight as shown in Fig. "C". This adjustment is set at the factory for a car speed of 15-20 miles per hour with a hot motor, giving approximately, 12 M. P. H. speed with a cold motor. When readjusting with a hot motor, it is necessary to hold fast idle stop weight "48" in the position as shown in Fig. "C", having throttle closed and adjustment screw "42" riding on ear "A".

FAST IDLE ADJUSTMENT: Screw No. 42 to be screwed "IN" 1 turn beyond point of contact on ear "A" with throttle valve fully closed and all slack in linkage taken up, as illustrated in Fig. "D".

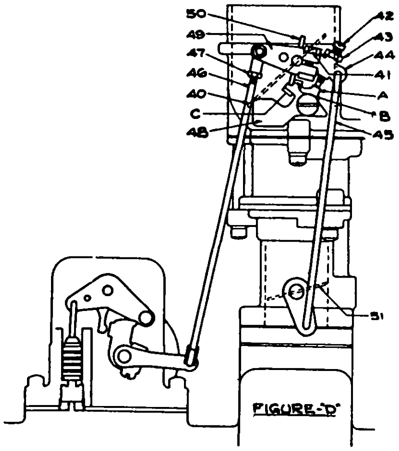


FIGURE-"D"

After the motor has become warm, the choke and fast idle will assume the position as shown originally in sketch "A".

Should for any reason, the motor become loaded, it can be cleaned out by holding the accelerator in wide open position and allowing starter to turn over engine a few times. In this position choke valve is opened approximately 40% as shown in Fig "D".

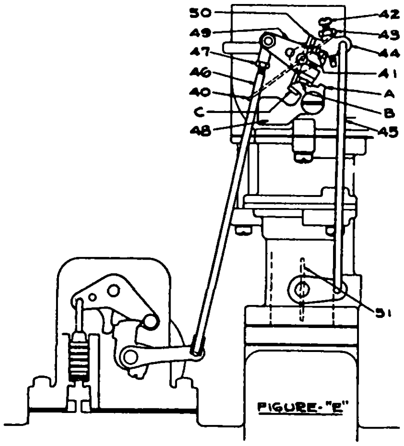


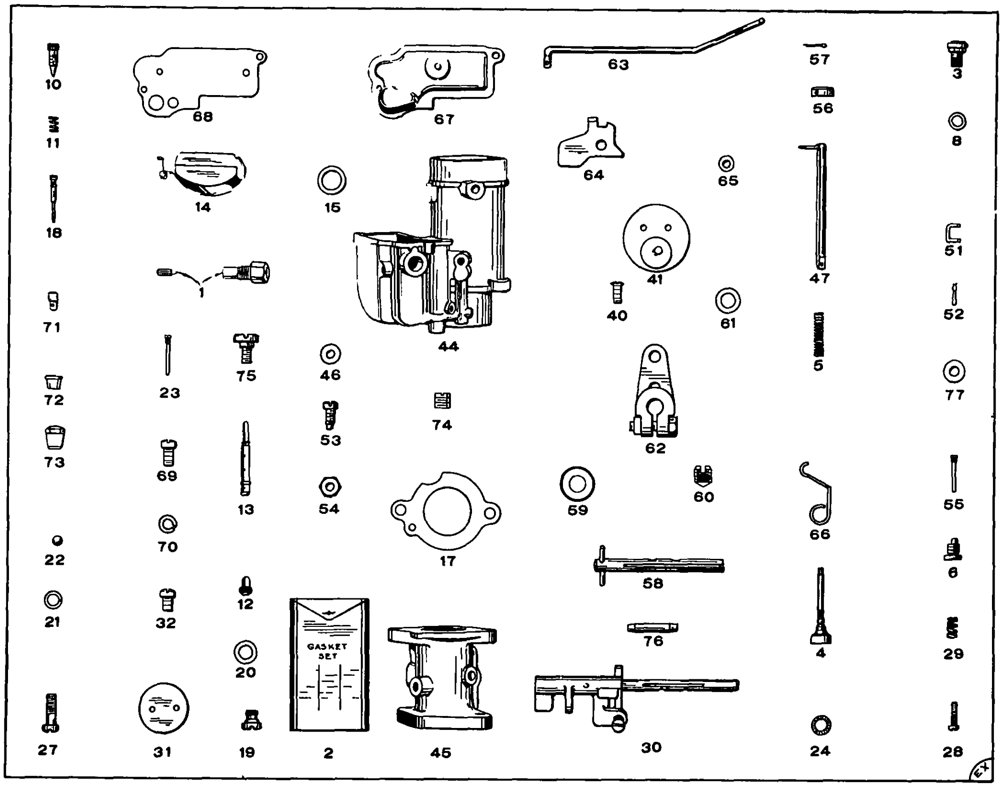
FIGURE-"E"

If for any reason the choke connecting rod "46" is removed and its length is changed, it can be corrected by having the choke lever "49", 66° from horizontal with the valve in closed position Then adjust for correct length, placing ball joint in lever so that there is only .006" backlash; fasten all lock nuts securely.

The end play in the choke valve stem should be .003" on either side when the valve is in closed position, by placing a feeler gauge between the washers and the air horn.

To assure smooth operation of the automatic choke control and the fast idle mechanism, it is of vital importance that all ball joints, levers and moving parts operate freely and do not stick or bind in any position of their travel.

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No.	Part No.	Part Name	
	1	P-22518	Float Needle Valve and Seat 113'	(NOT VAR.)
	2	J-4364-G	Complete Gasket Set	
	3	P-18149	Power By-Pass Jet No 56	(NOT VAR.)
	4	P-19527	Pump Piston and Link	(Includes P-16960)
	5	P-18215	Spring—Pump Duration	
	6	P-18144	Pump Inlet Check Valve	
	8	P-6855	Gasket—By-Pass Jet	
	10	P-17402	Idle Needle Valve	
	11	P-15481	Spring—Idle Needle Valve	
	12	P-17004	Metering Jet .057"	(VAR.)
	13	P-17005	Main Disch Jet No 28	(NOT VAR.)
	14	P-17486	Float with Lever	
	15	P-10666	Gasket—Float Needle Valve Seat	
	17	P-17557	Gasket—Main Body	
	18	P 17007	Idle Tube No 70	(NOT VAR.)
	19	P-18130	Plug—Main Disch Jet	
	20	P-60308	Gasket—Main Disch Jet Plug	
	21	P-6592	Lockwasher—Main Body Attaching Screw	
	22	P 18772	Lead Ball	
	23	P 18125	Screw—Fulcrum—Float Lever	
	24	P 16960	Spring—Pump Piston Leather Expansion	
	27	P-17000	Screw—Main Body Attaching	
	28	P 18288	Screw—Throttle Stop	
	29	P-15831	Spring—Throttle Stop Screw	
	30	P-18236	Throttle Lever and Stem	(Includes No. 28 & 29)
	31	P-5436	Throttle Valve (20°)	(VAR)
	32	P 16716	Screw—Throttle Valve Attaching	
	40	P-4522	Screw—Choke Valve Attaching	
	41	P 17578	Choke Valve	
	44	P-18313	Main Body—**1-3/16" Venturi—No. 70** High Speed Bleeder	(VAR.)
		P-18282	Kick Lever	
		P-17996	Kick Lever Attach Bushing	
	45	P-18243	Throttle Body—**No. 56-58** Idle Holes	(VAR.)
	47	P-19165	Pump Rod	
	51	P-18141	Pump Link	
	52	P-18114	Cotter Pin—Pump Link	
	53	P-18281	Screw—Fast Idle Adjusting	
	54	P-17812	Nut—Fast Idle Adjusting Screw	
	55	P 18126	Nozzle—Pump Disch **No. 68**	(VAR.)
	56	P-18135	Nut—Pump Rod and Stem	
	57	P-4	Cotter Pin—Pump Rod Nut	
	58	P-18246	Choke Stem and Pin	
		P-18102	Pin	
	59	P-17081	Collar—Choke Stem	
	60	P 16161	Set Screw—Choke Stem Collar	
	61	P-17449	Washer—Choke Stem	
	62	P 18553	Choke Lever	
		P 18109	Choke Lever	
		P 18300	Choke Lever Clamp Screw	
		P 18299	Choke Lever Clamp Screw Nut	
	63	P 18146	Rod—Fast Idle	
	64	P 17997	Lever—Fast Idle Weighted	
	65	P-9394	Washer—Fast Idle Rod	
	66	P 18432	Spring—Fast Idle Rod Anti Rattle	
	67	P 18124 F	Float—Cover	
	68	P 17778	Gasket—Float Cover	
	69	P-2866	Screw—Float Cover Attaching	
	70	P 12167	Lockwasher—Float Cover Attaching Screw	
	71	P 15477	Idle Air Bleeder **No. 48**	(VAR.)
	72	P 15459	Plug—Idle Disch Drilling Hole	
	73	P 21053	Plug—Pump Disch Channel	
	74	P-6387	Plug—Idle Disch Holes	
	75	P 17968	Screw—Fast Idle Weighted Lever Fulcrum	
	76	P-4499	Pin—Choke Stem Separator	
	77	P 17999	Washer- Fast Idle-Weighted Lever Fulc Screw	

NOTE—For parts marked (VAR.) size must be specified wh n rd ring.

BENDIX PRODUCTS DIVISION
SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

Printed in U S A

STROMBERG "EX-32" CARBURETOR

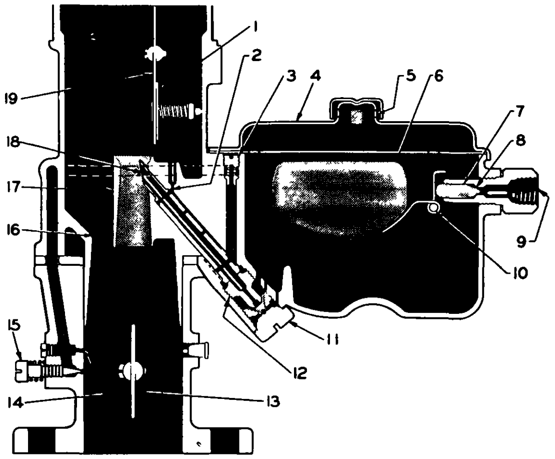
STROMBERG NO. A-16013 (RIGHT CARB.) (CODE NO. 18-3) PIERCE ARROW SYMBOL 702750

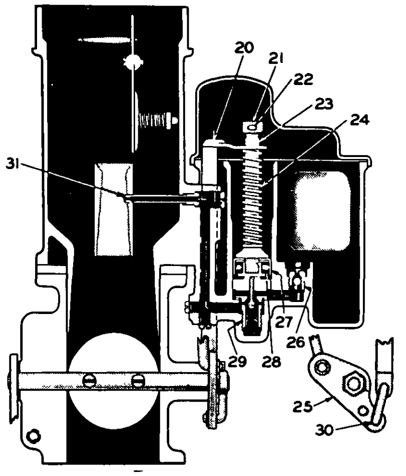
SIZE: 1½" D. D. S.A.E. 2-15/16" FLANGE CENTERS

1936
Pierce Arrow
MODELS
1602 & 1603
3½"x4"—12 cyl.

PARTS ILLUSTRATED

1. Poppet Valve
2. High Speed Bleed
3. Idle Tube
4 Float Chamber Cover
5. Float Chamber Vent
6. Float
7. Float Needle Valve
8. Float Needle Valve Seat
9. Gasoline Inlet
10. Float Fulcrum Pin
11 Main Discharge Jet Plug
12. Main Metering Jet
13. Throttle Valve
14. Idle Discharge Holes
15 Idle Needle Valve
16. Primary Venturi
17. Auxiliary Venturi
18. Main Discharge Jet
19. Choke Valve
20. Pump Rod
21. Power Adjustment Nut
22. Cotter Pin
23 Piston Connecting Rod
24 Connecting Rod Spring
25. Pump Lever





26 Check Valve
27. Pump Piston
28 Pump Piston Spring
29 Power By-Pass Jet
30 Pump Lever Link
31 Pump Discharge Nozzle

Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **9/16"** below top surface of float chamber (without gasket) at 3 lbs. pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level).

MAIN METERING SYSTEM—Venturi **1-3/16";** Main Discharge Jet **No. 28** P-17005 **(Tool T-24967);** High Speed Bleeder **No. 70** in body. Main Metering Jet **.057"** P-17004 **(Tool T-23844);** Use **Tool T-5164** Screw Driver for removing main jet plug. Main metering system controls the flow of fuel up to approximately 65 to 70 M. P. H.

POWER SYSTEM—Combination Power and Pump By-Pass **4 No. 56** P-18149. The Power Jet is brought into action at approximately 65 to 70 M. P. H. Pump piston to rest on seat of by-pass jet (less overtravel) with throttle valve opened **27/64" + — 1/64"** drill (maximum pump setting) (measure with shank end of **27/64"** drill); adjust pump stem nut to obtain correct setting.

ACCELERATION — Pump Discharge Nozzle **No. 68** P-18126; Pump capacity **17** to **19** c.c. per 10 strokes with pump rod link set in maximum setting. Use **Tool T-24972.** Pump action takes place during acceleration period only.

IDLE SYSTEM—Idle Discharge holes **Nos. 56-58.** With throttle valve fully closed and **No. 58** drill in idle hole, edge of valve is located **.012" + — .004"** from **No. 58** drill; Idle Air Bleed **No. 48** P-15477; Idle Tube **No. 70** P-17007. **Adjustment:** Adjust to smooth running, OUT to make richer and IN to make leaner; throttle at 7 to 8 M. P. H.

FLANGE GASKET—P-4753.

SPECIAL TOOLS REQUIRED—T-24733 Float Adjuster Wrench; T-24967 Main Discharge Jet Remover; T-23844 Main Metering Jet Wrench; T-24970 By-Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burrette Gauge; T-24968 Handle; T-5164 Main Jet Plug Screw Driver.

MOTOR TUNE-UP DATA

SPARK PLUG—.025".

Clean and adjust at regular intervals.

DISTRIBUTOR—.018" to .024".

Breaker gaps set .018" to .024".

Replace if necessary.

VALVES—Intake :
Exhaust: **Automatic take-up. No adjustment.**

IGNITION TIMING—Stationary contacts to open 5° before top dead center of No. 1 cylinder when mark on flywheel is in line with pointer at inspection hole. Manual spark fully advanced. Panel button in.

SERVICE RECOMMENDATION — Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

GENERAL DESCRIPTION OF "FAST IDLE" AND ITS ADJUSTMENTS

The purpose of the fast idle is to prevent the throttle valve from closing tightly while cranking the engine, and during the warming-up period. The following description and sketches show a typical installation in the various stages of operation.

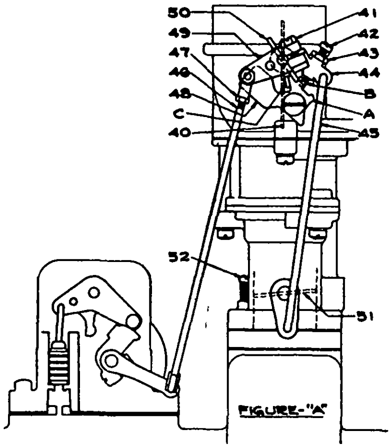


FIGURE-"A"

Through a series of levers connected to the throttle valve, choke valve and the automatic choke control, the operation of the choke control assures the driver of an almost instantaneous start under any condition—hot or cold motor. Before proceeding let it be known and remembered that with either a **Hot or Cold Motor The Carburetor Choke Valve Does Not Close Tighly Until The Throttle Is Opened Equivalent To a 20-Mile Hour Speed.** The advantage and purpose of this will be understood from the following explanation and sketches.

When a hot motor is stopped and the throttle valve "51" is allowed to close, choke valve "40" is in wide open position as shown in Fig. "A". As the engine becomes cold, the thermostat tightens, partially closing the choke valve to a predetermined distance as shown in sketch "B", the throttle still being in closed position. The movement of pin "50" against ear "C" brings ear "A" into contact with the bottom of adjustment screw "42", which governs the amount.

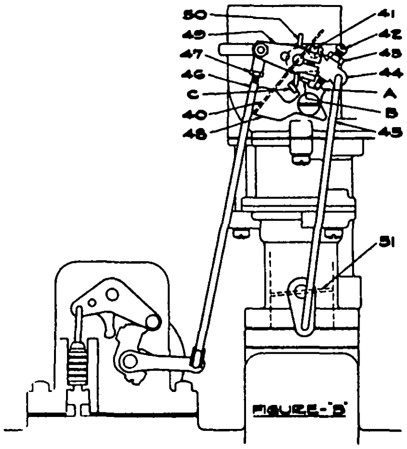


FIGURE-"B"

To make a start, **Open Throttle To 20-Mile Hour Speed.** With this movement adjusting screw "42" is raised, releasing its hold on ear "A" and allowing choke valve "40" to snap shut as shown by the dotted lines in Fig. "C". As soon as the engine starts to fire, the choke valve partially opens as shown by the solid lines, which is done by manifold vacuum drawing down piston of choke control. Immediately on opening of the throttle the fast idle stop weight "48" shifts to the position as shown in Fig. "C".

When the throttle is closed after the start has been made, it is prevented from returning to slow idle position by the fast idle adjustment screw "42" riding on ear "A" of fast idle stop weight as shown in Fig. "C". This adjustment is set at the factory for a car speed of 15-20 miles per hour with a hot motor, giving approximately, 12 M. P. H. speed with a cold motor. When readjusting with a hot motor, it is necessary to hold fast idle stop weight "48" in the position as shown in Fig. "C", having throttle closed and adjustment screw "42" riding on ear "A".

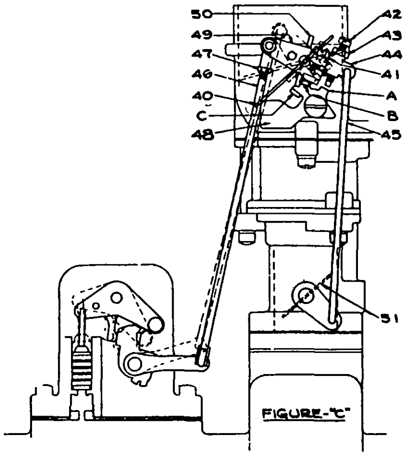


FIGURE-"C"

FAST IDLE ADJUSTMENT: Screw No. 42 to be screwed "IN" 1 turn beyond point of contact on ear "A" with throttle valve fully closed and all slack in linkage taken up, as illustrated in Fig. "D".

After the motor has become warm, the choke and fast idle will assume the position as shown originally in sketch "A".

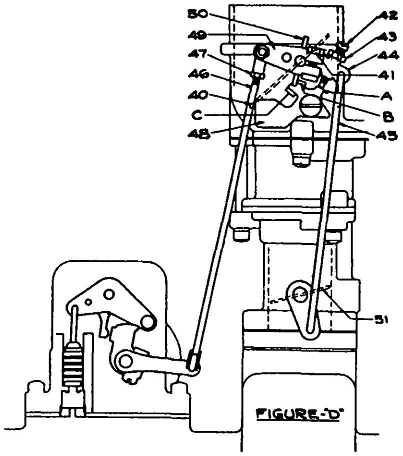


FIGURE-"D"

Should for any reason, the motor become loaded, it can be cleaned out by holding the accelerator in wide open position and allowing starter to turn over engine a few itmes. In this position choke valve is opened approximately 40% as shown in Fig. "D".

If for any reason the choke connecting rod "46" is removed and its length is changed, it can be corrected by having the choke lever "49", 66° from horizontal with the valve in closed position. Then adjust for correct length, placing ball joint in lever so that there is only .006" backlash; fasten all lock nuts securely.

The end play in the choke valve stem should be .003" on either side when the valve is in closed position, by placing a feeler gauge between the washers and the air horn.

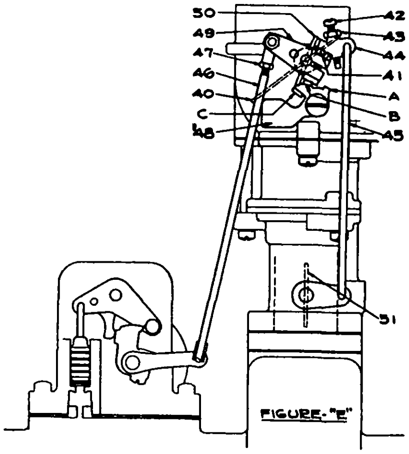
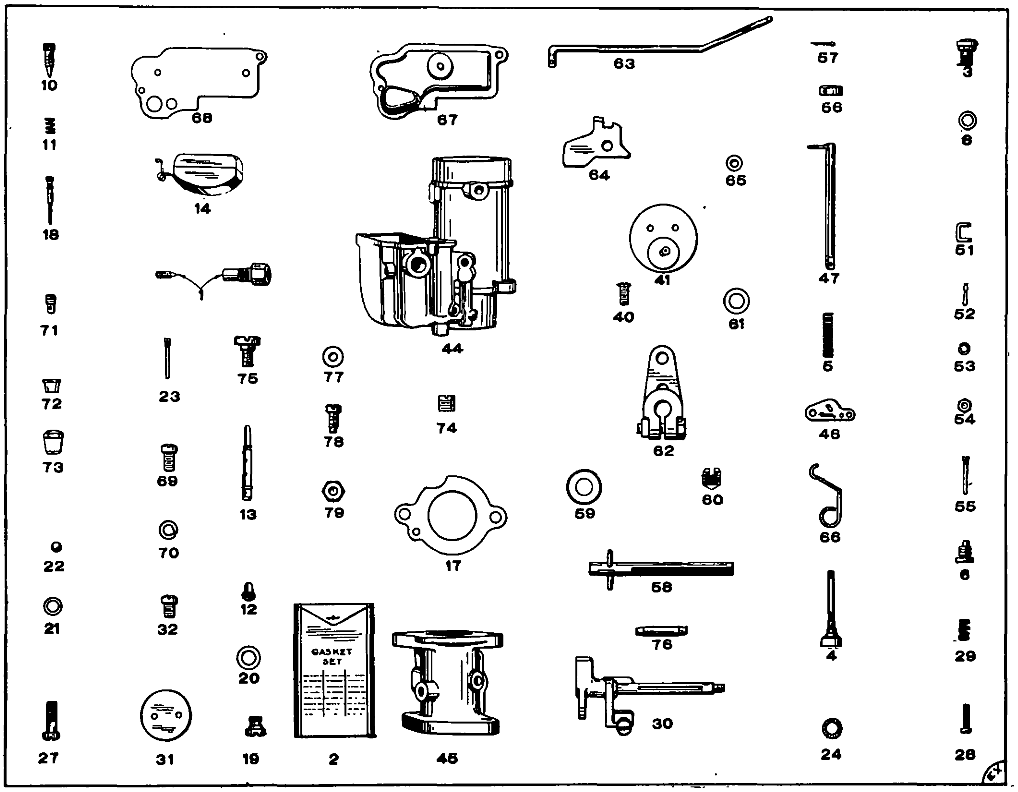


FIGURE-"E"

To assure smooth operation of the automatic choke control and the fast idle mechanism, it is of vital importance that all ball joints, levers and moving parts operate freely and do not stick or bind in any position of their travel.

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No.	Part N .	Part Name
	1	P-22518	Float Needle Valve and Seat—.113"....**(NOT VAR.)**
	2	J-4364-G	Complete Gasket Set
	3	P-18149	Power By-Pass Jet No. 56 **(NOT VAR.)**
	4	P-19527	Pump Piston and Link **(Includes P-16960)**
	5	P-18215	Spring—Pump Duration
	6	P-18144	Pump Inlet Check Valve
	8	P-6855	Gasket—By-Pass Jet
	10	P-17402	Idle Needle Valve
	11	P-15481	Spring—Idle Needle Valve
	12	P-17004	Metering Jet—**.057"** **(VAR.)**
	13	P-17005	Main Disch. Jet No. 28 **(NOT VAR.)**
	14	P-17486	Float with Lever
	17	P-17557	Gasket—Main Body
	18	P-17007	Idle Tube—No. 70 **(NOT VAR.)**
	19	P-18130	Plug—Main Disch. Jet
	20	P-10666	Gasket—Main Disch. Jet Plug & N. V. Seat
	21	P-6592	Lockwasher—Main Body Attach. Screw
	22	P-18772	Lead Ball
	23	P-18125	Screw—Float Fulcrum Lever
	24	P-16960	Spring—Pump Piston Leather Expansion
	27	P-17000	Screw—Main Body Attach.
	28	P-18288	Screw—Idle Adj.
	29	P-15831	Spring—Idle Adj. Screw
	30	P-18238	Throttle Lever & Stem (Includes No. 28 & No. 29)
	31	P-5436	Throttle Valve **(20°)** **(VAR.)**
	32	P-16716	Screw—Throttle Valve Attach.
	40	P-4522	Screw—Choke Valve Attach.
	41	P-17578	Choke Valve
	44	P-18303	Main Body **1-3/16"** Venturi—**No. 70** High Speed Bleeder **(VAR.)**
		P-18282	Kick Lever
		P-17996	Kick Lever Bushing
	45	P-18243	Throttle Body **No. 56-58** Idle Disch. Holes **(VAR.)**
	46	P-18145	Pump Lever
	47	P-19165	Pump Rod

NOTE—For parts marked (VAR.) size must be specified when rdering.

Bin Location	Key No.	Part No.	Part Name
	51	P-18141	Pump Link
	52	P-18114	Cotter Pin—Pump Link
	53	P-1791	Lockwasher—Pump Lever Attach. Nut
	54	P-2290	Nut—Pump Lever Attach.
	55	P-18126	Nozzle—Pump Disch. **No. 68** **(VAR.)**
	56	P-18135	Nut—Pump Rod
	57	P-4	Cotter Pin—Pump Rod Nut
	58	P-18151	Choke Stem and Pin
		P-18102	Pin
	59	P-17081	Collar—Choke Stem
	60	P-16161	Set Screw—Choke Stem Collar
	61	P-17259	Bushing—Choke Stem Spacer
	62	P-18553	Choke Lever (Complete)
		P-18109	Choke Lever
		P-18300	Choke Lever Clamp Screw
		P-18299	Choke Lever Clamp Screw Nut
	63	P-18146	Rod—Fast Idle
	64	P-17997	Lever—Fast Idle Weighted
	65	P-9394	Washer—Fast Idle Rod
	66	P-18432	Spring—Fast Idle Rod Anti-Rattle
	67	P-18124-F	Float Cover
	68	P-17778	Gasket—Float Cover
	69	P-2866	Screw—Float Cover Attach.
	70	P-12167	Lockwasher—Float Cover Attach. Screw
	71	P-15477	Idle Air Bleeder—**No. 48** **(VAR.)**
	72	P-15459	Plug—Idle Disch. Drilling Hole
	73	P-21053	Plug—Pump Disch. Channel
	74	P-6387	Plug—Idle Disch. Holes
	75	P-17968	Screw—Fast Idle Weighted Lever Fulcrum
	76	P-3881	Pin—Choke Stem
	77	P-17999	Washer—Fast Idle Weighted Lever Fulcrum Screw
	78	P-18281	Screw—Fast Idle Adj.
	79	P-17812	Nut—Fast Idle Adj. Screw
	Extra Equipment—Furnished Only When Specified:		
		P-18284	Throttle Connecting Stem
		P-17201	Throttle Connecting Stem Spring

BENDIX PRODUCTS DIVISION

SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

Printed in U. S. A.

STROMBERG MODEL "C" AUTOMATIC CHOKE

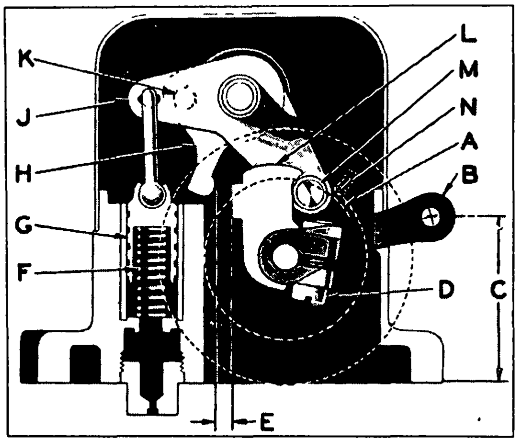
STROMBERG NO. A-16090 PIERCE ARROW SYMBOL 702829

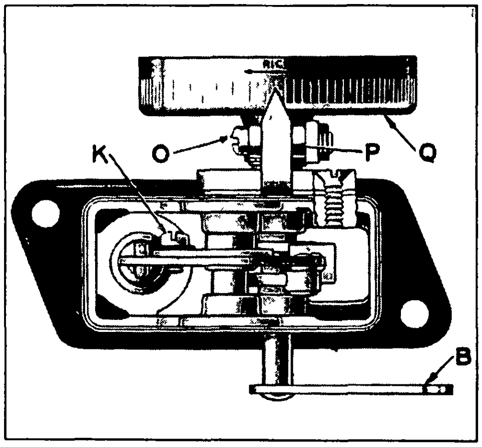
(FOR USE WITH PIERCE ARROW EX-32 CARBURETORS—STROMBERG NOS. A-16013 & A-16093)

1936
Pierce Arrow
MODELS
1602-3 (Right)
1602-3 (Left)
3½"x4"—12 cyl.

PARTS ILLUSTRATED

A Thermostat
B Control Lever
C Distance between lever hole and base of choke (See instructions)
D Cam Clamp Lever
E Distance between lever and cam (See instructions)
F Vacuum Piston Spring
G Vacuum Piston
H. Kick Lever
J. Vacuum Piston Lever
K Kick Lever Adj Screw
L Locking Cam
M Piston Lever Roller
N Thermostat Case Prong
O Case Clamp Screw
P Pointer
Q Thermostat Case





GENERAL DESCRIPTION

The Stromberg Automatic Choke Control is a device that eliminates all methods of hand operated chokes. Its operation is wholly governed by vacuum and heat of the engine, which makes it positive acting under any conditions. It acts quicker than any choke can be operated by hand and allows the carburetor choke valve to open the correct amount during the warming-up period of the engine.

PRINCIPLE OF OPERATION

The thermostat "A" returns the choke valve in the carburetor to closed position when the thermostat reaches a temperature of 70°. The choke valve is closed during the cranking of the engine and held so by the locking of roller "M" against cam "L". When the engine fires and a manifold vacuum is created, vacuum piston "G" is pulled partly down, unlocking cam "L" and roller "M". As soon as the engine fires steadily and an even vacuum is present, piston travels the remaining distance. Lever "H" then comes in contact with cam "L" opening the choke a pre-determined distance against the tension of thermostat spring. The distance between lever and cam is adjustable by screw "K". When the motor has reached a water temperature of 120°, the choke valve should be in wide open position.

ADJUSTMENTS

The choke is not a delicate instrument, but when servicing, it should be given the same consideration as any fine part of the engine.

For adjusting the Automatic Choke Control for any reason whatever, it can be quickly and accurately done by following very carefully the procedure outlined below:

1. Remove automatic choke from motor by disassembling the carburetor choke rod and attaching screws.

2. Under any conditions, the thermostat "A" should be allowed to cool or warm until it has reached a temperature of 70°. This is very important, and if the car has been running, it is necessary to allow the automatic choke to stand long enough to cool off, or on the other hand, if the place or garage where the choke is to be adjusted is colder than 70°, the choke should be taken into a room of normal temperature.

3. Remove housing cover and see that all working parts operate freely.

4. With roller "M" in locked position against first notch of cam "L", distance "C" should be 21/32"; if it is not so, it can be readjusted by loosening screw "D" and setting accordingly.

5. Distance "E" is set at the factory to a No. 17 drill with the cam in locked position. It can be readjusted by loosening screw "K" and set to the proper distance.

6. Unhook thermostat "A" from prong "N" Loosen clamp screw "O", and revolve thermostat case "Q" so that the zero marking is under the pointer. When in this position, the hook of the thermostat should be flush with the prong.

7. Place hook on prong and revolve case 14 graduations rich. Fasten clamp screw "O" securely.

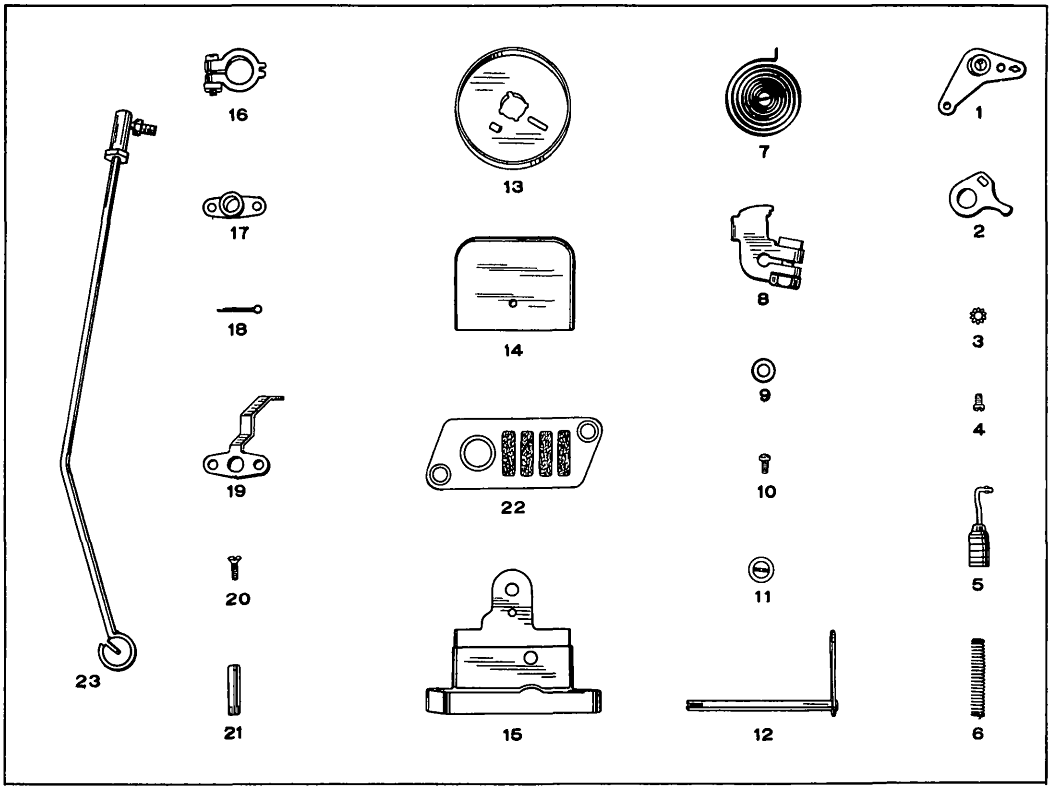
8. Piston "G" should operate freely and show no signs of sticking in any position.

9. Assemble cover on body.

10. Assemble choke control on manifold making certain gasket is in good condition. Draw down bolts evenly.

11. Assemble connecting rod between choke control and carburetor so that there is only .006" backlash between levers. If it is necessary to adjust, loosen clamp screw of carburetor choke lever.

12. Assemble air cleaner so that it will not interfere with the carburetor choke lever.



SERVICE REPLACEMENT PARTS LIST

Key No	Part No.	Part Name
1	P 17978	Vacuum Piston Lever
2	P 17992	Kick Lever
3	P 18043	Lockwasher—Kick Lever Set Screw
4	P 2369	Set Screw—Kick Lever
5	P 17976	Vacuum Piston and Link
6	P 18311	Spring—Vac Piston
7	P 21351	Thermostat
8	P 18310	Kick Lever Cam and Screw
	P 18309	Kick Lever Cam
	P 18299	Nut—Kick Lever Cam Screw
	P 18300	Screw—Kick Lever Cam
9	P 16426	Washer—Thermostat Stem
10	P 2866	Screw—Cover Attaching
11	P 17816	Bushing—Vacuum Reducer
12	P 18271	Thermostat Lever and Stem
13	P 18268	Thermostat Housing
14	P 17983	Cover—Main Body
15	P 18289	Main Body
16	P 16893	Clamp—Thermostat Housing
	P 16894	Clamp
	P 9025	Clamp Screw
	P 4517	Clamp Screw Nut
17	P 16824	Bracket—Thermostat Housing
18	P-4	Cotter Pin—Thermostat Lever Washer
19	P 16829	Pointer—Thermostat Adj
20	P 16887	Screw—Thermostat Bracket Attach
21	P 17985	Stem—Vacuum Piston Lever
		PARTS SENT SEPARATE
22	P 16835	Gasket—Flange
23	P 18291	Choke Rod

NOTE—For parts marked (VAR) size must be specified when ordering.

BENDIX PRODUCTS DIVISION
SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

STROMBERG CARBURETOR

PLYMOUTH

Parts and Technical Information

Equipment No.	Type	Year	Models
A-19042	BXOV-2	1933-38	PC, PD, PG, PF, PE, PFC, PJ, P-1, P-2, P-3, P-4, P-5, P-6

For complete Technical and Parts information refer to Dodge Section BXOV-2 Carburetor—Form 10C-642

J-5484	BXOV-25	1933-38	PC, PD, PG, PF, PE, PFC, PJ, P-1, P-2, P-3, P-4, P-5, P-6

Use Standard A-19112 BXOV-25 Carburetor Parts except—

Use P-10641 Throttle Lever (Key No. 73) in place of P-23215

For complete Technical and Parts information refer to Standard Section BXOV-25 Carburetor—Form 10C-632

J-5417	BXUV-3	1939-40-41	P-8-9-10-11-12

Use Standard A-19103 BXUV-3 Carburetor Parts except—

Use P-19442 058″ Metering Jet (Key No. 12) in place of P-19442 .062″
P-23902 Main Discharge Jet Plug in place of P-24268 (Key No. 59) Adj. Met. Jet
P-4764 Throttle Lever Assembly instead of P-23215 (Key No. 71)

For complete Technical and Parts information refer to Standard Section BXUV-3 Carburetor —Form 10C-633

J-5475	BXUV-35	1939-40-41	P-8-9-10-11-12

Use Standard A-19113 BXUV-35 Carburetor Parts except—

Use P-23902 Main Discharge Jet Plug in place of P-24268 (Key No. 59) Adj. Met. Jet
Use P-4764 Throttle Lever (Key No 73) in place of P-23215
Use P-19442 058″ Metering Jet (Key No. 12) in place of P-19442 .062″

For complete Technical and Parts information refer to Standard Section BXUV-35 Carburetor—Form 10C-634

STROMBERG CARBURETOR

Parts and Technical Information

PLYMOUTH

Equipment No.	Type	Year	Models
A-19042	BXOV-2	1933-38	PC, PD, PG, PF, PE, PFC, PJ, P-1, P-2, P-3, P-4, P-5, P-6

For complete Technical and Parts information refer to Dodge Section BXOV-2 Carburetor—Form 10C-642

J-5484	BXOV-25	1933-38	PC, PD, PG, PF, PE, PFC, PJ, P-1, P-2, P-3, P-4, P-5, P-6

Use Standard A-19112 BXOV-25 Carburetor Parts except—

Use P-10641 Throttle Lever (Key No. 73) in place of P-23215

For complete Technical and Parts information refer to Standard Section BXOV-25 Carburetor—Form 10C-632

J-5417	BXV-3	1939	P-8

Use Dodge A-18093 BXV-3 Carburetor Parts except—

Use P-19442 .060″ Metering Jet (Key No. 12) in place of P-19442 .058″
P-24268 .060″ Adjustable Metering Jet in place of P-23902 (Key No. 19) Plug

Extra Parts not illustrated—P-17481 Union

For complete Technical and Parts information refer to Dodge Section—Form 10C-538

J-5475	BXUV-35	1939	P-8

Use Standard A-19113 BXUV-35 Carburetor Parts except—

Use P-4764 Throttle Lever (Key No. 73) in place of P-23215

For complete Technical and Parts information refer to Standard Section BXUV-35 Carburetor—Form 10C-634

STROMBERG CARBURETOR

Parts and Technical Information

PONTIAC

Equipment No.	Type	Year	Model
J-5446	BXOV-2	1933-41 1933-49	All Models 6 cyl. All Models 8 cyl. (Except Torpedo)

Use Standard A-19102 BXOV-2 Carburetor Parts except—

Use P-8933 Throttle Lever (Key No. 71) in place of P-23215

Use 382790 Throttle Body (Key No. 45) in place of P-24226 (Throttle Body only)

Add P-24424 Vac. Spark Line Extension

For complete Technical and Parts information refer to Standard Section BXOV-2 Carburetor—Form 10C-631

J-5479	BXOV-25	1933-41 1933-39	All Models 6 cyl. All Models 8 cyl. (Except Torpedo)

Use Standard A-19112 BXOV-25 Carburetor Parts except—

Use P-8933 Throttle Lever (Key No. 73) in place of P-23215

Use 382790 Throttle Body (Key No. 45) in place of P-24226 (Throttle Body only)

Add P-24424 Vac. Spark Line Extension

For complete Technical and Parts information refer to Standard Section BXOV-25 Carburetor—Form 10C-632

380684	BXOV-2	1940	40-28

Use Standard 380003 BXOV-2 Carburetor Parts Except—

Use P-8934 Throttle Lever instead of P-23215

Use 382790 Throttle Body instead of P-24226

Add P-24424 Vac. Spark Line Extension

Add 382610 Gasket Spacer

Add P-22841 Dash Choke Control

380683	BXOV-25	1940	40-28

Use Standard 380004 BXOV-25 Carburetor Parts Except—

Use P-8934 Throttle Lever instead of P-23215

Use 382790 Throttle Lever instead of P-24226

Add P-24424 Vac. Spark Line Extension

Add 382610 Gasket Spacer

STROMBERG CARBURETOR

Parts and Technical Information

PONTIAC

Equipment No.	Type	Year	Model
J-5446	BXOV-2	1933-39	6 and 8

Use Standard A-19102 BXOV-2 Carburetor Parts except—

Use P-7196 Throttle Lever (Key No. 71) in place of P-23215

For complete Technical and Parts information refer to Standard Section BXOV-2 Carburetor—Form 10C-631

Equipment No.	Type	Year	Model
J-5479	BXOV-25	1933-39	6 and 8

Use Standard A-19112 BXOV-25 Carburetor Parts except—

Use P-7196 Throttle Lever (Key No. 73) in place of P-23215

For complete Technical and Parts information refer to Standard Section BXOV-25 Carburetor—Form 10C-632

AUTOMATIC CHOKE CONTROL

OPERATION AND ADJUSTMENTS

Choke Units as Used on Studebaker BXO-26 and BXOV-26 Carburetors

STUDEBAKER

CHOKE CONTROLS

GENERAL DESCRIPTION

The Automatic Choke Control is built integral with the carburetor The principles of operation are the same as previously used, namely manifold vacuum, heat on a thermostat spring and offset choke valve in the carburetor The vacuum piston and thermostat are directly connected to the carburetor choke valve and accurately control the opening and closing of the choke valve under varying operating temperatures A tube leading from the exhaust manifold to the thermostat chamber transmits heat to govern the tension of the thermostat spring A fast idle cam for the throttle screw prevents the engine from stalling during the warming up period

CHOKE CLOSED—FAST IDLE

When starting a cold or warm engine, it is necessary to depress the foot accelerator momentarily. This allows the choke valve to close and the fast idle cam revolves under the stop screw for proper starting position Fig 1 shows the position of the mechanism after this has been done The choke valve "A" is held in closed position during the cranking period by the tension of the thermostat spring "B"

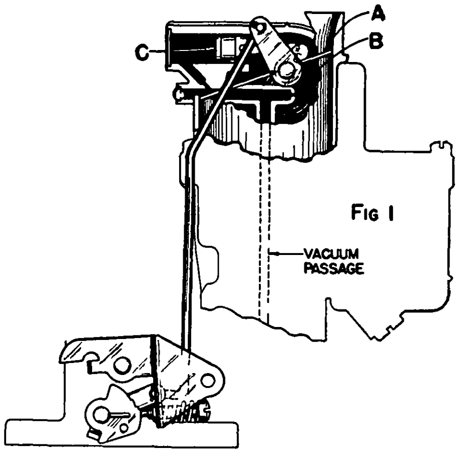


FIG 1

CHOKE PARTIALLY OPEN—ENGINE FIRING

As the engine begins to fire, the manifold vacuum which is created pulls vacuum piston "C" and opens choke valve "A" against the tension of the thermostat spring "B" Sufficient air is thereby admitted to give a satisfactory running mixture With this action the fast idle cam is allowed to revolve to a lower step Fig. 2

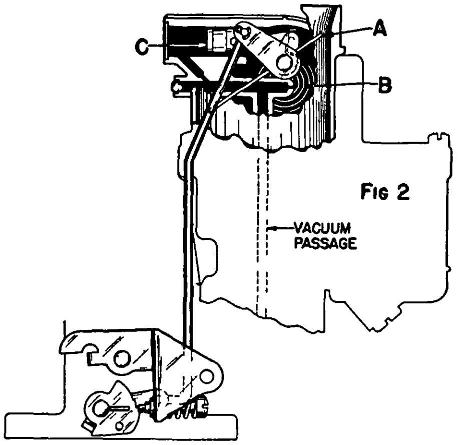


FIG 2

ENGINE WARM—SLOW IDLE

While the engine continues to run the choke valve "A" is forced open by the inrushing air against the tension of the thermostat spring "B." Heat is transmitted into the thermostat chamber, and the thermostat spring gradually absorbs heat so that its tension decreases until it does not offer any further resistance to the choke valve opening The choke valve continues to open and allows the fast idle cam to rotate until the throttle stop screw is at normal idle position See Fig 3.

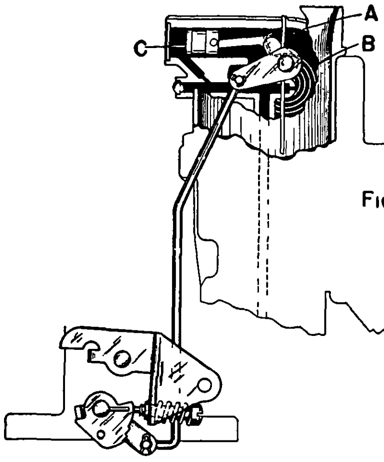


FIG 3

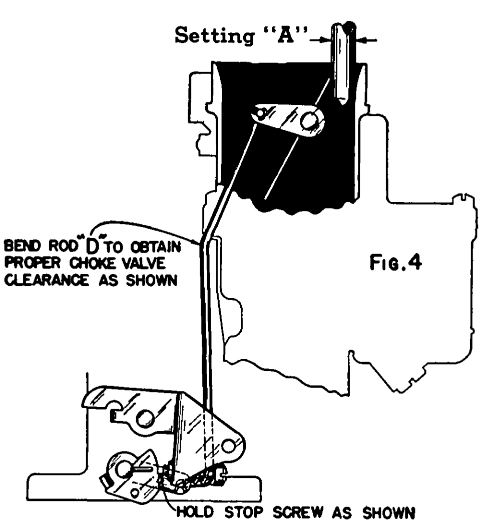

Setting "A"
BEND ROD "D" TO OBTAIN PROPER CHOKE VALVE CLEARANCE AS SHOWN
HOLD STOP SCREW AS SHOWN

FIG. 4

SETTING A CHOKE RELEASE AND FAST IDLE ADJUSTMENT

If for any reason the engine should become flooded, the choke valve can be partially opened by depressing the accelerator pedal to the full extent of its travel. This action will admit sufficient air to clear the manifold. The amount of choke valve opening is controlled by the fast idle rod and therefore only one adjustment is required.

To check the adjustment (**1940-41 Models**), hold the throttle stop screw on the low lobe of the fast idle cam and against the step as illustrated Move the choke valve as far as possible to closed position. The opening that remains should be equivalent to a 11/32" drill If this amount of opening is not obtained it is necessary to adjust the rod "D" at the bend as required.

1938-39 Models, with throttle held in wide open position, choke valve should be open so that a **5/32"** drill can be placed between choke valve and air horn. The amount of opening can be changed by bending the lip on the fast idle lever.

Care should be taken so as not to cause a bind in the fast idl mechanism.

SERVICING THE AUTOMATIC CHOKE CONTROL

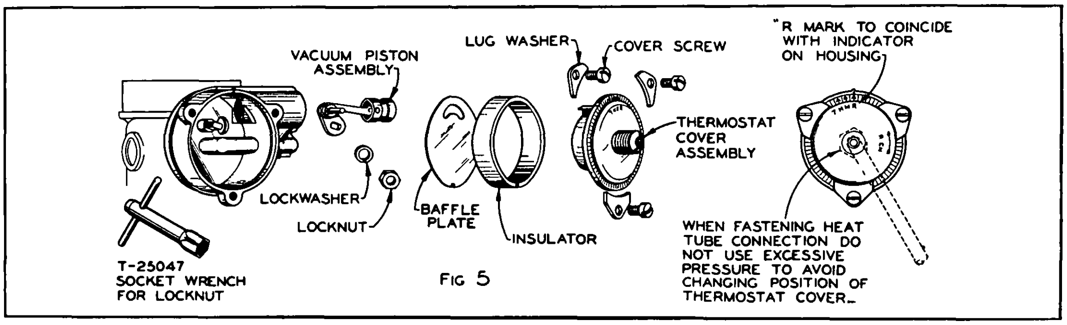

VACUUM PISTON ASSEMBLY
LUG WASHER
COVER SCREW
"R" MARK TO COINCIDE WITH INDICATOR ON HOUSING
THERMOSTAT COVER ASSEMBLY
LOCKWASHER
LOCKNUT
BAFFLE PLATE
INSULATOR
T-25047 SOCKET WRENCH FOR LOCKNUT
WHEN FASTENING HEAT TUBE CONNECTION DO NOT USE EXCESSIVE PRESSURE TO AVOID CHANGING POSITION OF THERMOSTAT COVER.

FIG 5

DISASSEMBLY AND ASSEMBLY

To disassemble —

1. Disconnect the heat tube from the thermostat housing.
2. Remove carburetor from manifold.
3. Remove thermostat cover screws and lug washers. Thermostat cover assembly can then be taken off the choke housing.
4. Remove thermostat cork insulator and baffle plate
5. Remove lock nut with tool **T-25047.** Remove lock washer.
6. Loosen housing attaching screws slightly, which will make it easier to remove vacuum piston assembly from housing.
7. With a clean rag saturated with Acetone or alcohol, thoroughly clean the cylinder walls of any dirt or foreign material which may have accumulated in regular service. Use compressed air to blow out all of the channels The surface of the piston should also be thoroughly cleaned. Do not use any abrasive materials for cleaning piston or cylinder.

To assemble.—

1. Place vacuum piston in cylinder. **Do not use any type of lubricant on piston or in cylinder.** Assemble lever onto choke stem. Tighten housing attaching screws securely.
2. Assemble lockwasher and lock nut. Use tool **T-25047** to fasten lock nut securely. Replace thermostat baffle plate and cork insulator. (If cork insulator buckles or fits improperly it should be replaced as this will cause the lever of the vacuum piston to bind.)
3. Check to see that the choke valve can drop open freely without the slightest lag.
4. Place thermostat on housing with hook of thermostat spring down. Rotate in rich direction until the mark "R" coincides with the projection on the thermostat housing. This action is recommended to insure that the thermostat spring makes the proper contact with the pin in the vacuum piston lever.

THERMOSTAT ADJUSTMENT

The thermostat is calibrated and properly set at the factory to give satisfactory performance under normal conditions. To compensate for the wide range in volatility of the various brands of gasoline, three markings are incorporated on the outside of the thermostat cover, namely· H, M and R. The standard setting at the factory is with "R" coinciding with the highest projection on the thermostat housing flange and is for use with regular or commercial brands of gasoline If by having the cover set at "R" the engine tends to load up or over-choke, the cover should be moved to "M" which provides a leaner setting. Where high volatile fuels are continuously used it may be desirable to set the cover plate on "H." The thermostat that is originally installed need not be changed unless it is tampered with. When installing a new thermostat the following procedure can be used, which will provide an **approximate** setting. Submerge the unit in water of 70° temperature. Allow a few minutes for the thermostat to position itself and place a marking with a pencil on the cover to coincide with the center of the hook of the thermostat. "H" setting can then be indicated two graduations from the new marking; "M" four graduations and "R" six. Thoroughly dry the assembly and place on thermostat housing. It may be necessary to vary the adjustment slightly to obtain best possible performance.

AUTOMATIC CHOKE CONTROL

OPERATION AND ADJUSTMENTS

Choke Units as Used on Studebaker AAV-26 Carburetors

STUDEBAKER
CHOKE
CONTROLS

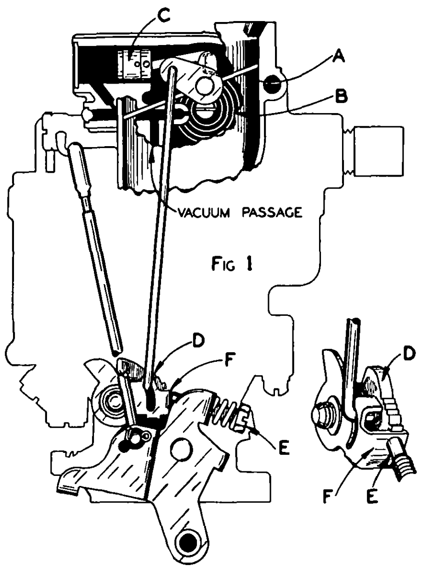


Fig 1

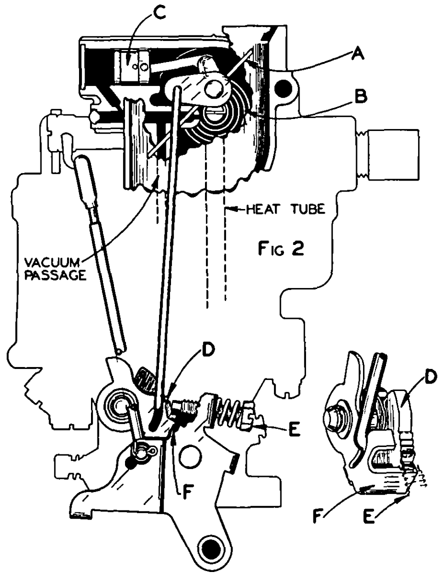


Fig 2

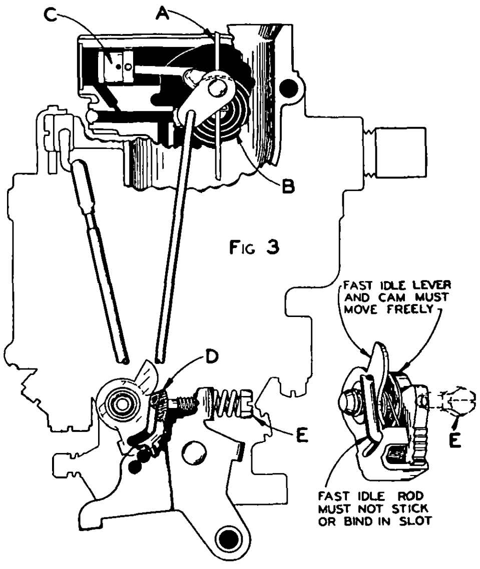

C
A
B
FAST IDLE LEVER AND CAM MUST MOVE FREELY
D
E
E
FAST IDLE ROD MUST NOT STICK OR BIND IN SLOT

Fig 3

GENERAL DESCRIPTION

The automatic choke control is built into a housing integral with the carburetor. The principles used in the operation of the automatic choke are manifold vacuum, thermostat spring, and an offset choke valve in the carburetor The vacuum piston and thermostat are directly connected to the carburetor choke valve and accurately control the opening and closing of the choke valve under varying operating temperatures and at various throttle positions A tube leading from the exhaust manifold to the thermostat chamber transmits heat to govern the tension of the thermostat spring. A fast idle cam operating in conjunction with the automatic choke provides the proper throttle opening for a cold engine and thereby prevents the engine from stalling during the warming up period.

CHOKE CLOSED—FAST IDLE—COLD ENGINE—FIG. 1

When the engine becomes cold, the thermostat "B" also cools and gradually gains tension The thermostat is unable to close the choke valve "A" until the throttle is opened **It is therefore necessary to depress the accelerator pedal slightly and then allow it to return to normal position before making a start.** Opening the throttle in this manner permits the throttle stop screw "E" to be moved away from the fast idle cam "D" This allows the choke valve to close in accordance with the thermostat tension The throttle stop screw then comes to rest on a higher lobe of the fast idle cam or on the ear of the loose lever "F" if the choke valve is completely closed as shown in Fig 1. This provides the proper throttle opening for the prevailing engine temperature The choke valve "A" is held in closed position during the cranking period by the tension of the thermostat "B."

CHOKE PARTIALLY OPENED—ENGINE RUNNING—WARMING UP PERIOD—FIG. 2

When the engine begins to fire, the manifold vacuum thus created pulls the vacuum piston "C," opening the choke valve "A" against the tension of the thermostat "B" Sufficient air is thereby admitted to give a satisfactory running mixture. **When the engine continues to run, it is necessary to open the throttle slightly, procedure which ordinarily occurs when driving the car away. If the car is permitted to stand and idle, the throttle should be opened slightly and then allowed to return to slow idle position.** As the choke valve opening is increased, the fast idle cam "D" is allowed to revolve so that the throttle stop screw "E" comes to rest on a lower step when the throttle is opened and then permitted to close

ENGINE WARM—CHOKE WIDE OPEN—SLOW IDLE—FIG. 3

While the engine continues to run, the amount that the choke valve is opened against the tension of the thermostat spring "B" is governed by the quantity of inrushing air past the off center choke valve and the travel of the vacuum piston "C." Heat is transmitted into the thermostat chamber by hot air being drawn from the "stove" on the exhaust manifold The thermostat gradually absorbs sufficient heat until it does not offer any further resistance to the choke valve opening At the same time the fast idle cam "D" rotates until the throttle stop screw "E" is at normal idle position, FIG 3 The throttle stop screw should be adjusted for a car speed of 7 to 8 miles per hour with the engine at normal operating temperature NOTE It is essential that the lever and cam move freely and that the rod does not stick or bind in the slot of the lever

ADJUSTMENTS

NOTE—Gauges and drill sizes for various settings are listed on Studebaker pages of this Catalog which cover individual carburetor units.

SETTING A
CHECKING FAST IDLE ADJUSTMENT—FIG. 4

To check the fast idle setting of the carburetor, it is merely necessary to hold the stop screw "E" on the high lobe of the fast idle cam as illustrated in FIG. 4. Move the choke valve as far as possible to the closed position. The opening that remains should be equivalent to a **drill or gauge** size specified on Page 1 of Carburetor Form If this amount of opening is not obtained, it is only necessary to slightly bend the fast idle rod at the point indicated in FIG 4 Care should be taken so as not to cause a bind in the fast idle mechanism

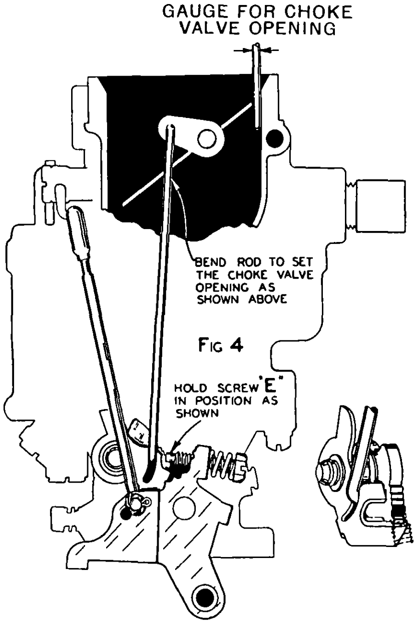

GAUGE FOR CHOKE VALVE OPENING
BEND ROD TO SET THE CHOKE VALVE OPENING AS SHOWN ABOVE
HOLD SCREW "E" IN POSITION AS SHOWN

Fig 4

SETTING B
CHOKE RELEASE—FIG. 5

If for any reason the engine should become flooded, the choke valve can be partially opened by depressing the accelerator pedal to the full extent of its travel. This results in ear "G" of the throttle lever making contact with the fast idle loose lever, rotating it and forcing the choke valve partially open.

With the throttle in the wide open position, the space between the top of the choke valve and the air horn should be equivalent to a **drill or gauge** size specified on Page 1 of Carburetor Form This can be measured by placing a drill of the specified diameter between the valve and the air horn If it is necessary to readjust this, it can be done by bending ear "G" to the desired position.

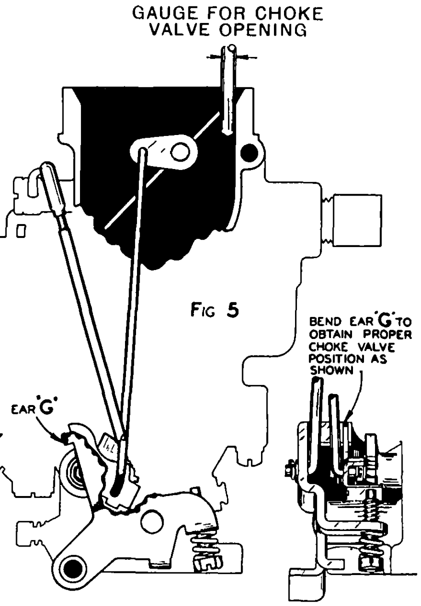
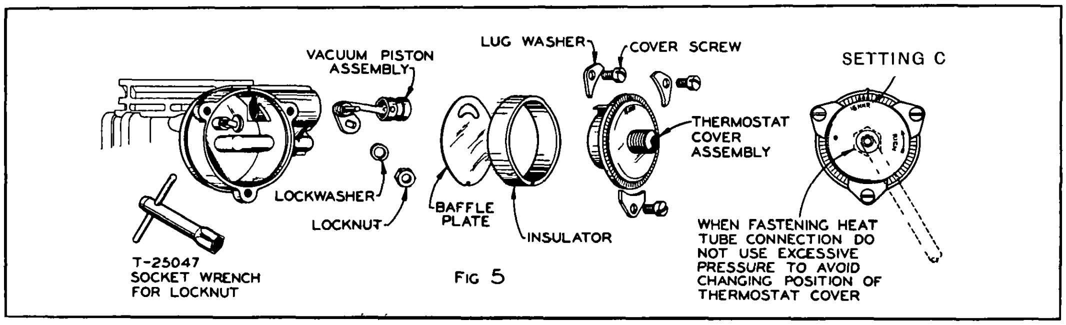

GAUGE FOR CHOKE VALVE OPENING
BEND EAR "G" TO OBTAIN PROPER CHOKE VALVE POSITION AS SHOWN
EAR "G"

Fig 5

SERVICING THE AUTOMATIC CHOKE CONTROL
SETTING C



WHEN FASTENING HEAT TUBE CONNECTION DO NOT USE EXCESSIVE PRESSURE TO AVOID CHANGING POSITION OF THERMOSTAT COVER

Fig 5

DISASSEMBLY

1. Disconnect the heat tube from the thermostat housing.
2. Remove carburetor from manifold.
3. Remove thermostat cover screws and lug washers. Thermostat cover assembly can then be taken off the choke housing.
4. Remove thermostat cork insulator and baffle plate.
5. Loosen locknut and remove lockwasher.
6. Remove vacuum piston assembly from housing.
7. With a clean rag saturated with acetone or alcohol, thoroughly clean the cylinder walls of any dirt or other foreign material which may have accumulated in regular service Use compressed air to blow out all of the channels The surface of the piston should also be thoroughly cleaned Do not use any abrasive materials for cleaning piston or cylinder

REASSEMBLY

1. Place vacuum piston in cylinder. **DO NOT USE ANY TYPE OF LUBRICANT ON PISTON OR IN CYLINDER. THIS IS VERY IMPORTANT.** Assemble lever onto choke stem. Next assemble lockwasher, and locknut, fastening the nut lightly with Tool T-25047
2. Replace thermostat baffle plate and thermostat cork insulator. (Replace insulator in case the one originally used tends to buckle or does not fit properly as this will cause the vacuum piston lever to bind)
3. **Setting C.** Place thermostat on choke housing with hook of thermostat down Rotate in rich direction until the letter specified for Setting C on Page 1 of Carburetor Form coincides with projection on thermostat housing This procedure is recommended to insure the contacting of the hook of the thermostat spring with pin in the lever of the vacuum piston

THERMOSTAT ADJUSTMENT

The thermostat spring is set at the factory to give satisfactory performance under normal conditions To compensate for the wide range in volatility of the various brands of gasoline, three markings are incorporated on the outside of the thermostat cover, namely H, M and R. The standard setting at the factory is with "R" coinciding with the highest projection on the thermostat housing flange and is for use with regular or commercial brands of gasoline If by having the cover set at "R" the engine tends to load up or overchoke, the cover should be moved to "M" which provides a leaner setting. Where high volatile fuels are continuously used, it may be desirable to set the cover plate on "H" The thermostat that is originally installed need not be changed unless it is tampered with. In such cases the entire assembly should be replaced

For checking the thermostat, it can be done by submerging the thermostat assembly in water of 70° temperature for approximately 10 minutes so that it can assume a natural position. The air horn should be cooled or warmed to as near 70° as possible Place the thermostat assembly onto the housing and rotate it until the choke valve just closes. In this position "R" on the cover should **approximately** coincide with the projection on the housing flange.

STROMBERG "BXOV-26" CARBURETOR

STROMBERG NO. 380036 (CODE NO. 6-98A) STUDEBAKER SYMBOL NO. 512847

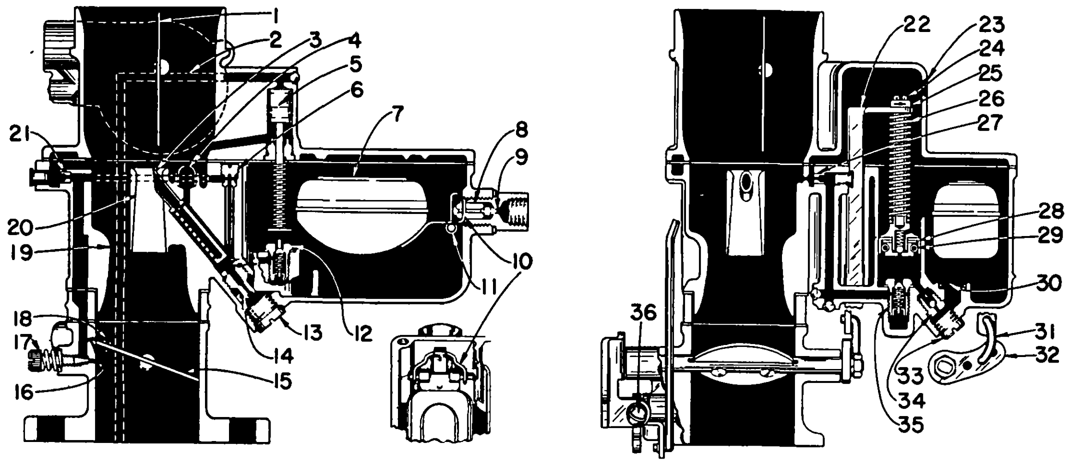
SIZE: 1-3/8″ D. D. S.A.E. 2-11/16″ FLANGE CENTERS

1941-42 Studebaker

MODELS
Commander 11A, 12A
3-5/16″ x 4-3/8″—6 cyl.

PARTS ILLUSTRATED

1. Choke Valve
2. Vacuum Passage
3. Main Discharge Jet
4. High Speed Bleed
5. Vacuum Power Piston
6. Idle Tube
7. Float
8. Float Needle Valve
9. Float Needle Valve Seat
10. Float Fulcrum Pin Clip
11. Float Fulcrum Pin
12. Power By-Pass Jet
13. Main Disch. Jet Plug
14. Metering Jet
15. Throttle Valve
16. Idle Discharge Holes
17. Idle Needle Valve
18. Vac. Spark Holes (3)
19. Primary Venturi
20. Auxiliary Venturi
21. Idle Air Bleed
22. Pump Rod
23. Float Chamber Vent
24. Pump Stem
25. Pump Stem Nut
26. Pump Duration Spring
27. Pump Discharge Nozzle
28. Pump Piston
29. Pump Piston Exp. Spring
30. Pump Inlet Strainer
31. Pump Link
32. Pump Lever
33. Check Valve Plug
34. Pump Inlet Check Valve
35. Pump By-Pass Jet
36. Throttle Stop Screw



Note—Specifications below are for latest production; previous major changes listed on parts page.

FUEL LEVEL—Measure **5/8″** below top surface of float chamber (without gasket) at 3 lbs. pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level).

MAIN METERING SYSTEM—Venturi **1-3/16″**; Main Discharge Jet **No. 28-36** No. 382492 (**Tool T-24967**) High Speed Bleeder **No. 70** P-23985. Main Metering Jet **.057″** P-19442 (**Tool T-24924**); Use **Tool T-19099** Screwdriver for removing main jet plug. Main metering system controls the flow of fuel up to approximately 65 to 70 M.P.H.

POWER SYSTEM—Power By-Pass Jet **No. 54** P-21197; Power jet to come into operation at **4″** to **6″** of manifold vacuum, which is approximately 65 to 70 M.P.H. (**Tool T-24733**) used to remove vacuum power piston.

ACCELERATION—Pump Discharge Reducer **No. 70** P-24067; Pump By-Pass Jet **No. 63** P-23742; Pump capacity **5** to **8** c.c. per 10 fast strokes, and **11** to **14** c.c. per 10 slow strokes with pump rod link set in middle setting. 1/4″-9/32″ Pump Travel. Pump action takes place during acceleration period only. (**Tool T-24972.**)

IDLE SYSTEM—Idle Discharge holes **Nos. 56-60.** With throttle valve fully closed and **No. 60** drill in idle hole, edge of valve is located **.010″** + — **.004″** from **No. 60** drill; Idle Air Bleed **No. 54** P-20470; Idle Tube **No. 70** P-21778. **Adjustment:** Adjust to smooth running, OUT to make richer and IN to make leaner; throttle at 7 to 8 M.P.H.

VACUUM SPARK CONTROL—With throttle fully closed and **No. 56** drill in spark hole above valve, edge of valve is located **Flush** from **No. 56** drill. Drill 2 No. 56 holes above throttle valve and 1 No. 56 hole drilled at random below valve.

AUTOMATIC CHOKE AND THERMOSTAT SETTINGS—See automatic choke control, operation and adjustment form 10C-725 Studebaker section of this catalog.
SETTING A—11/32″ Dia. Drill, Tool T-25085

FLANGE GASKET—P-24314

SPECIAL TOOLS mentioned above contained in Tool Kit SER-459. See Form 10-265A.

MOTOR TUNE-UP DATA

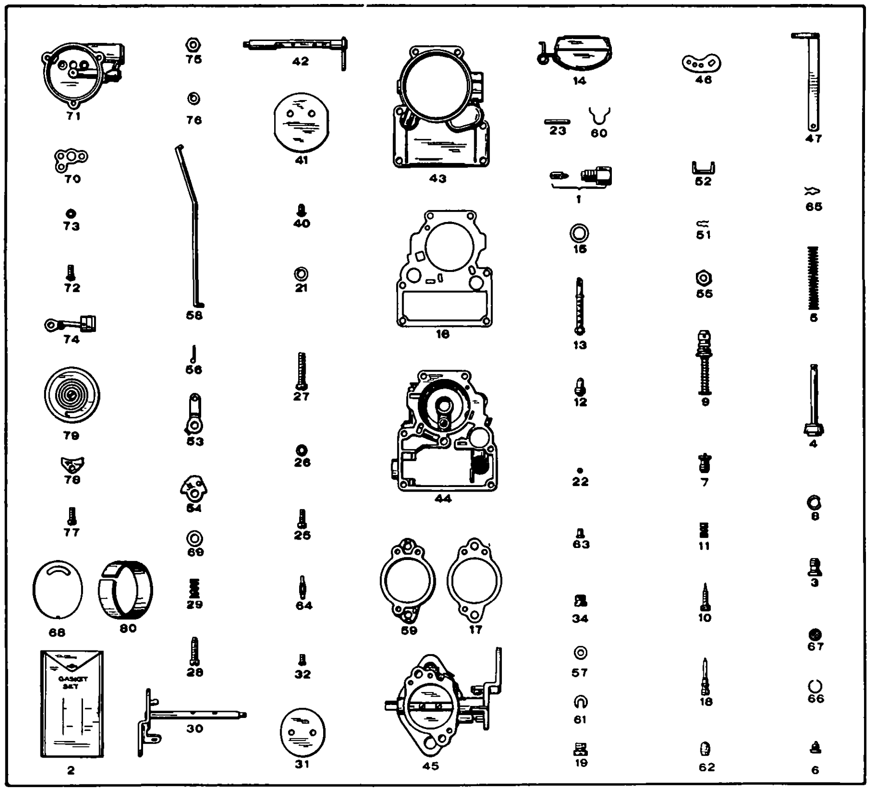
SPARK PLUG—.025″.
Clean and adjust at regular intervals.

DISTRIBUTOR—.020″. Breaker gap set .020″.
Replace if necessary.

VALVES—Intake: .016″; Exhaust: .016″.
Engine cold.

IGNITION TIMING—Breaker contacts to open for No. 1 cylinder when the "IGN" mark on vibration damper is in line with pointer on timing gear cover.

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.



SERVICE REPLACEMENT PARTS LIST

Repair Parts Kit No. RK-112

Bin Location	Key No.	Part No	Part Name	
	1	**P-24063**	Float Needle Valve and Seat—086″	**(VAR)**
	2	**J-5652-G**	Gasket Set	
	3	**P-23742**	Pump By Pass Jet—1 No 63	**(NOT VAR)**
	4	**382485**	Pump Piston	
	5	**P-24102**	Spring—Pump Stem	
	6	**P-18144**	Pump Inlet Check Valve	
	7	**P-21197**	Power By Pass Jet—1 No 54	**(NOT VAR)**
	8	**P-19448**	Gasket—By Pass Jets	
	9	**P-24043**	Vacuum Power Piston	
	10	**P-17402**	Idle Needle Valve	
	11	**P-15481**	Spring—Idle Needle Valve	
	12	**P-19442**	Metering Jet **.057″**	**(VAR)**
	13	**382492**	Main Discharge Jet No 28 36	**(NOT VAR)**
	14	**P-22081**	Float	
	15	**P-10666**	Gasket—Float Needle Valve Seat	
	16	**P-24624**	Gasket—Air Horn	
	17	**P-24609**	Gasket—Main Body	
	18	**P-21778**	Idle Tube	
	19	**P-23902**	Plug—Main Discharge Jet	
	21	**P-3157**	Lockwasher—Main Body Attach Screw	
	22	**P-18772**	Lead Balls	
	23	**P-23272**	Pin—Float Fulcrum	
	25	**P-3199**	Screw—Air Horn Attach	
	26	**P-1791**	Lockwasher—Air Horn Attach Screw	
	27	**P-22025**	Screw—Main Body Attach	
	28	**P-23277**	Idle Adj Screw	
	29	**P-15831**	Spring—Idle Adj Screw	
	30	**P-24612**	Throttle Lever and Stem	
	31	**P-24059**	Valve—Throttle	
	32	**P-4522**	Screw—Throttle Valve Attach	
	34	**P-24678**	Plug—Check Valve	
	40	**P-22573**	Screw—Choke Valve Attach	
	41	**P-23295**	Choke Valve	
	42	**P-24787**	Choke Lever and Stem	
	43	**382491**	Air Horn	
	44	**382489**	Main Body **1-3/16″** Venturi No **70** H S Bleeder No **54** Idle Air Bleeder, No **70** Pump Disch	**(VAR)**
	45	**382490**	Throttle Body (complete with No **56-60** idle holes, **2 No 56** spark holes throttle stem & valves)	**(VAR.)**
	46	**P-21774**	Pump Lever	
	47	**P-24837**	Pump Rod	
	51	**P-19374**	Cotter Pin—Pump Link Fast Idle Rod	
	52	**P-24836**	Pump Link	
	53	**P-24617**	Lever—Fast Idle	
	54	**P-24615**	Cam—Fast Idle	
	55	**P-2290**	Nut—Pump Lever Attach	
	56	**112-S-1**	Cotter Pin—Fast Idle Rod	
	57	**P-23732**	Washer—Anti Rattle—Ch Stem	
	58	**P-24616**	Rod—Fast Idle	
	59	**P-23857**	Spacer—Main Body	
	60	**P-23213**	Spring—Float Fulcrum Pin	
	61	**P-23731**	Washer—Anti Rattle—Horseshoe	
	62	**P-23985**	High Speed Bleeder No **70**	**(VAR)**
	63	**P-15459**	Plug—Idle Air Bleed Channel	
	64	**P-24879**	Pin—Fast Idle Cam Stop	
	65	**P-21338**	Cotter Pin—Pump Stem	
	66	**P-23271**	Spring Clip—Pump Strainer	
	67	**P-23270**	Screen—Pump Strainer	
	68	**P-23051**	Baffle Plate	
	69	**P-23203**	Washer—Fast Idle Cam	
	70	**P-23297**	Gasket—Auto Choke Housing	
	71	**382477**	Auto Choke Housing	
	72	**P-12016**	Screw—Auto Choke Housing Attach	
	73	**P-15346**	Lockwasher—Auto Choke Housing Attach Screw	
	74	**P-24133**	Vacuum Piston Link and Lever	
	75	**P-16571**	Nut—Vacuum Piston Link and Lever Attach	
	76	**P-15875**	Lockwasher—Vac Piston Link & Lever Attach Nut	
	77	**P-2866**	Screw—Thermostat Cover Assy Attach	
	78	**P-23932**	Washer—Thermostat Cover Assy Attach Screw	
	79	**P-24814**	Thermostat Assembly	
	80	**P-24812**	Insulator—Cork—Thermostat	

BENDIX PRODUCTS DIVISION
SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

STROMBERG "AAV-26" CARBURETOR

STROMBERG NO. 380038 (CODE NO. 6-97C) STUDEBAKER SYMBOL NO. 513195

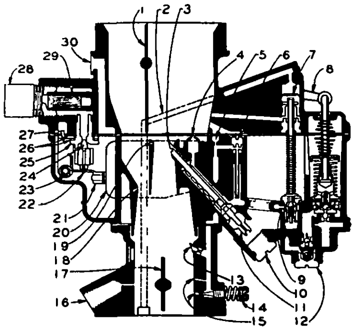
SIZE: 1-1/4" DUAL D.D. 4-HOLE FLANGE

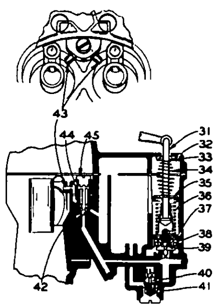
1941-42 Studebaker

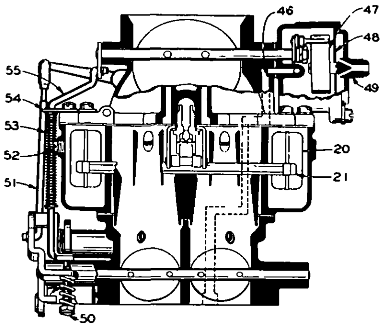
MODELS
PRESIDENT 7C, 8C
3-1/16" x 4-1/4"—8 cyl.

PARTS ILLUSTRATED

1. Choke Valve
2. Power Vacuum Passage
3. Main Discharge Jet
4. High Speed Bleeder
5. Idle Air Bleeder
6. Idle Tube
7. Vacuum Power Piston
8. Pump Fulcrum Arm
9 Power By-Pass Jet
10. Main Disch Jet Plug
11. Metering Jet
12. Check Valve Plug
13. Sec Idle Air Bleed
14. Idle Needle Valve
15 Idle Discharge Holes
16. Vacuum Spark Conn
17. Throttle Valve
18 Primary Venturi
19. Auxiliary Venturi
20 Float
21. Float Lever
22. Float Needle Valve Clip
23. Float Fulcrum Pin
24. Float Needle Valve
25. Float Needle Valve Seat
26 Float Hanger Gasket
27. Float Hanger
28. Gasoline Inlet
29. Gasoline Strainer
30 External Float Vent
31. Pump Piston Link
32. Felt Dust Washer
33 Retainer Washer
34. Dust Washer Spring
35 Spring Retainer Washer
36. Pump Duration Spring
37. Pump Piston
38 Pump Piston Expan Spr
39. Pump Relief Valve
40 Pump Inlet Check Valve
41 Pump Inlet Strainer
42. Pump Outlet Check Valve
43 Pump Disch. Nozzle
44. Pump Disch Restriction
45. Pump Disch Attach Scr
46 Auto. Choke Vac Passage
47 Thermostat
48 Screen
49 Hot Air Tube Conn
50 Throttle Stop Screw
51 Pump Rod
52 Fuel Level Sight Plug
53 Choke Assist Spring
54. Assist Spring Bracket
55 Fast Idle Rod







Note—Specifications below are for latest production; previous major changes listed on parts page.

FUEL LEVEL—Measure **5/8"** below top surface of float chamber (without gasket) at **3 lbs.** pressure or level with bottom of level sight hole. To correct fuel level, hold air horn in inverted position. Place **Tool T-24971** on gasket. Tops of floats should be level with tops of vertical guides, which will give approximate fuel level; change if necessary. Sides of floats should be parallel to guides of tool without drag.

MAIN METERING SYSTEM—Venturi 1-1/32"; Main Discharge Jet **No. 36** 382408 **(Tool T-24967).** High Speed Bleeder **No. 70** P-23985. Main Metering Jet **.044"** P-24773 **(Tool T-24924)**; Use **Tool T-19099** Screwdriver for removing main jet plug. Main metering system controls the flow of fuel up to approximately 65 to 70 M.P.H.

POWER SYSTEM—Power By-Pass Jet **No. 56** P-21657; Power jet to come into operation at 5" to 6" of manifold vacuum, which is approximately 65 to 70 M.P.H. **(Tool T-24733)** used to remove vacuum power piston.

ACCELERATION—Pump Discharge Nozzles **No. 68** P-24594; Pump capacity **12** to **16** c.c. per 10 fast strokes, and **16** to **20** c.c. per 10 slow strokes with pump rod link set in minimum setting. Pump travel 15/32". Pump action takes place during acceleration period only. **(Tool T-24972.)**

IDLE SYSTEM—Idle Discharge holes **Nos. 56-60.** With throttle valve fully closed and **No. 60** drill in idle hole, edge of valve is located **.015"** + — **.004"** from **No. 60** drill; Idle Air Bleed **No. 42** P-24683 in Throttle Body, **No. 60** in Main Body; Idle Tube **No. 65** 382572. **Adjustment:** Adjust to smooth running one barrel at a time, OUT to make richer and IN to make leaner; throttle at 7 to 8 M.P.H.

VACUUM SPARK CONTROL—With throttle fully closed and **No. 56** drill in spark hole, edge of valve is located **Flush** from **No. 56** drill. (2 No. 56 spark holes.)

AUTOMATIC CHOKE AND THERMOSTAT SETTINGS—See Automatic Choke Control, Operation and Adjustment Form 10C-733 Studebaker Section of this Catalog.

SETTING A—7/64" Drill
SETTING B—11/64" Drill, Tool T-25056
SETTING C—Set Thermostat at "R"

FLANGE GASKET—P-18165.

SPECIAL TOOLS MENTIONED ABOVE CONTAINED IN TOOL KIT SER-459 SEE FORM 10-265A

MOTOR TUNE-UP DATA

SPARK PLUG—.025". Clean and adjust at regular intervals.

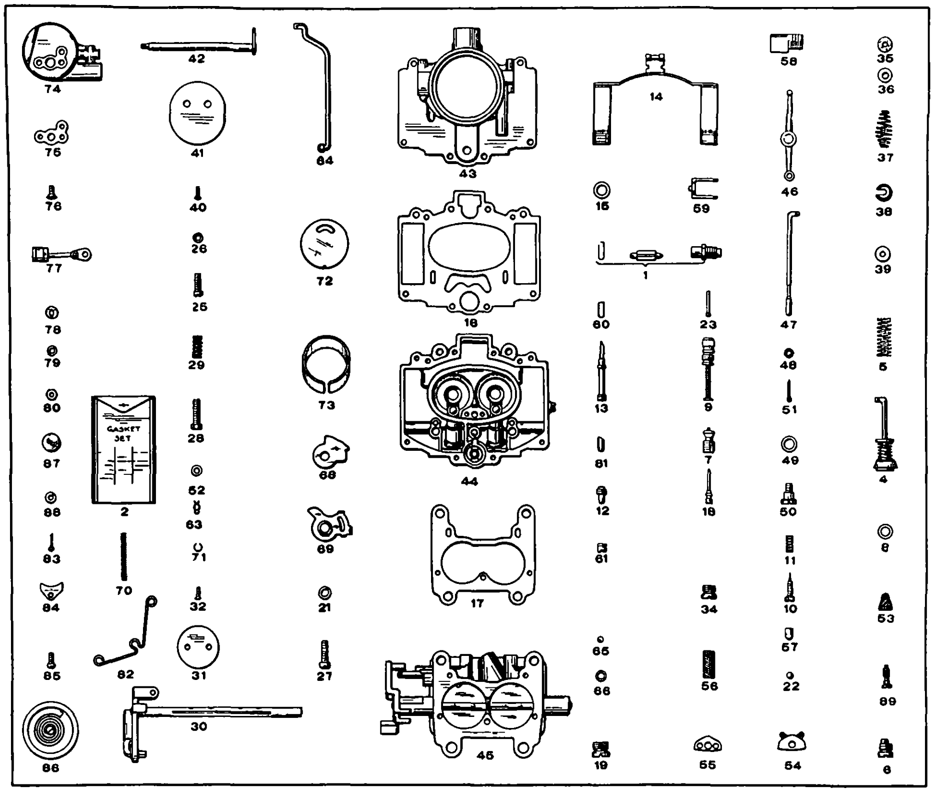
DISTRIBUTOR—.018" to .024". Breaker gap set .018" to .024". Replace if necessary.

VALVES—Intake: .016"; Exhaust: .016". Engine cold.

IGNITION TIMING—Stationary contacts to open for No. 1 cylinder when top dead center "UDC-1-8" mark is in line with pointer.

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Repair Parts Kit No. RK-111

Bin Location	Key No	Part No	Part Name
	1	**P-22499**	Float Needle Valve and Seat 101" **(NOT VAR)**
	2	**382393**	Gasket Set
	4	**382443**	Pump Piston Assembly
	5	**P-22870**	Spring—Pump Duration
	6	**P-18144**	Pump Inlet Check Valve
	7	**P-21657**	Power By Pass Jet—1 No 56 **(NOT VAR)**
	8	**P-19448**	Gasket—By Pass Jet
	9	**P-22803**	Vacuum Power Piston
	10	**P-15478**	Idle Needle Valve
	11	**P-18710**	Spring—Idle Needle Valve
	12	**P-24773**	Metering Jet **044** **(VAR)**
	13	**382408**	Main Discharge Jet No 36 **(NOT VAR)**
	14	**P-22433**	Float
	15	**P-2885**	Gasket—Float Needle Valve Seat
	16	**382255**	Gasket—Air Horn
	17	**P-24735**	Gasket—Main Body
	18	**382572**	Idle Tube
	19	**P-23902**	Main Discharge Jet Plug
	21	**P-3157**	Lockwasher—Main Body Attach Screw
	22	**P-18772**	Lead Ball
	23	**P-22439**	Pin—Float Fulcrum
	25	**P-2475**	Screw—Air Horn Attach
	26	**P-6668**	Lockwasher—Air Horn Attach Screw
	27	**P-709**	Screw—Main Body Attach
	28	**P-19103**	Screw—Idle Adj
	29	**P-15831**	Spring—Idle Adj Screw
	30	**P-24632**	Throttle Lever and Stem
	31	**P-24740**	Throttle Valve
	32	**P-23956**	Screw—Throttle Valve Attach
	34	**P-24678**	Plug—Check Valve
	35	**P-17380**	Packing—Felt
	36	**P-17060**	Washer—Felt Packing
	37	**P-22643**	Spring—Packing Retainer
	38	**P-22045**	Washer—Horseshoe
	39	**P-22046**	Washer—Spring Retainer
	40	**P-4522**	Screw—Choke Valve Attach
	41	**P-23913**	Choke Valve
	42	**P-23959**	Choke Stem and Lever
	43	**382732**	Air Horn
	44	**382484**	Main Body **1-1/32"** Venturi **No 70** H S Bleeder **No 60** Idle Air Bleed **(VAR)**
	45	**382483**	Throttle Body (complete with **No 56-60** idle holes **No 42** Idle Air Bleed **2 No 56** spark holes throttle stem and valve) **(VAR)**
	46	**P-24677**	Pump Lever
	47	**P-22620**	Pump Rod
	48	**P-9394**	Washer—Pump Rod
	49	**P-19820**	Washer—Spring—Fulcrum Screw
	50	**P-20611**	Screw—Fulcrum
	51	**P-7170**	Cotter Pin—Pump Rod and Link
	52	**P-15553**	Washer—Fast Idle Rod
	53	**P-23858**	Strainer—Pump Check Valve
	54	**P-24594**	Nozzle—Pump Discharge No 68 **(NOT VAR)**
	55	**P-24668**	Gasket—Pump Discharge Nozzle
	56	**P-23912**	Strainer—Gas Inlet
	57	**P-23985**	High Speed Bleeder **No 70** **(VAR)**
	58	**P-23911**	Elbow—Gas Connection
	59	**P-22441**	Float Hanger
	60	**P 22523**	Clip—Float Needle Valve
	61	**P-6406**	Plug—Fuel Level Sight
	62	**P-23507**	Plug—Idle Drilling Hole
	63	**P-19374**	Cotter Pin—Fast Idle Rod
	64	**382890**	Fast Idle Rod
	65	**P-17030**	Ball—Pump Channel
	66	**P-17063**	Gasket—Pump Nozzle Attach Screw
	68	**P 23993**	Cam—Fast Idle
	69	**P-23995**	Lever—Fast Idle Cam
	70	**382889**	Spring—Fast Idle Rod
	71	**P-23974**	Snap Ring—Fast Idle Cam
	72	**P-23051**	Baffle Plate
	73	**P-24812**	Insulator—Cork—Choke Housing
	74	**382594**	Choke Housing
	75	**P-23297**	Gasket—Choke Housing
	76	**P-12016**	Screw—Choke Housing Attach
	77	**P-24623**	Vacuum Piston Link and Lever
	78	**382744**	Washer—Thermostat Lever
	79	**P-15875**	Lockwasher—Vacuum Piston and Link Attach Nut
	80	**P-16571**	Nut—Vacuum Piston and Link Attach
	81	**P-24683**	Idle Air Bleeder No 42 **(NOT VAR)**
	82	**382888**	Bracket—Fast Idle Rod
	83	**P-4**	Cotter Pin—Fast Idle Rod
	84	**P-23932**	Washer—Therm Cover Attach Screw
	85	**P-2866**	Screw—Therm Cover Attach Screw
	86	**382479**	Thermostat Cover
	87	**P-8495**	Plug—Vent Hole
	88	**P-15346**	Lockwasher—Choke Housing Attach Screw
	89	**P-24669**	Screw—Pump Nozzle Attach

BENDIX PRODUCTS DIVISION
SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

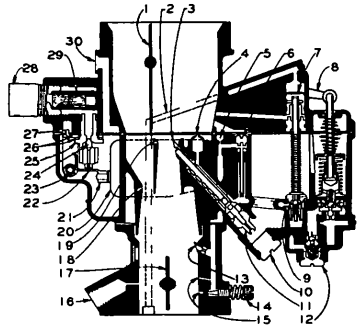
STROMBERG "AAV-26" CARBURETOR

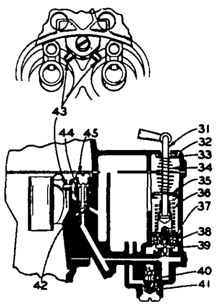
STROMBERG NO 380038 (CODE NO 6-97) STUDEBAKER SYMBOL NO 513195

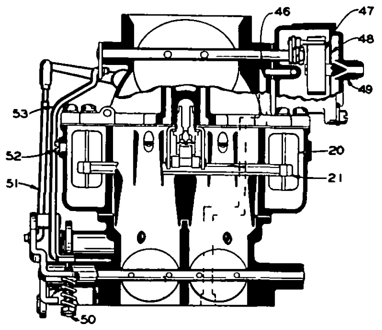
SIZE 1-1/4 DUAL D D 4-HOLE FLANGE

1941
Studebaker
MODEL
PRESIDENT 7C
3-1/16" x 4-1/4"—8 cyl.

PARTS ILLUSTRATED







1 Choke Valve
2 Power Vacuum Passage
3 Main Discharge Jet
4 High Speed Bleeder
5 Idle Air Bleeder
6 Idle Tube
7 Vacuum Power Piston
8 Pump Fulcrum Arm
9 Power By Pass Jet
10 Main Disch Jet Plug
11 Metering Jet
12 Check Valve Plug
13 Sec Idle Air Bleed
14 Idle Needle Valve
15 Idle Discharge Holes
16 Vacuum Spark Conn
17 Throttle Valve
18 Primary Venturi
19 Auxiliary Venturi
20 Float
21 Float Lever
22 Float Needle Valve Clip
23 Float Fulcrum Pin
24 Float Needle Valve
25 Float Needle Valve Seat
26 Float Hanger Gasket
27 Float Hanger
28 Gasoline Inlet
29 Gasoline Strainer
30 External Float Vent
31 Pump Piston Link
32 Felt Dust Washer
33 Retainer Washer
34 Dust Washer Spring
35 Spring Retainer Washer
36 Pump Duration Spring
37 Pump Piston
38 Pump Piston Expan Spr
39 Pump Relief Valve
40 Pump Inlet Check Valve
41 Pump Inlet Strainer
42 Pump Outlet Check Valve
43 Pump Disch Nozzle
44 Pump Disch Restriction
45 Pump Disch Attach Scr
46 Auto Choke Vac Passage
47 Thermostat
48 Screen
49 Hot Air Tube Conn
50 Throttle Stop Screw
51 Pump Rod
52 Fuel Level Sight Plug
53 Fast Idle Rod

Note—Specifications below are for latest production; previous major changes listed on parts page.

FUEL LEVEL—Measure **5/8"** below top surface of float chamber (without gasket) at **3 lbs.** pressure or level with bottom of level sight hole To correct fuel level, hold air horn in inverted position Place **Tool T-24971** on gasket Tops of floats should be level with tops of vertical guides, which will give approximate fuel level change if necessary Sides of floats should be parallel to guides of tool without drag

MAIN METERING SYSTEM—Venturi **1-1/32"**; Main Discharge Jet **No. 36** 382408 (**Tool T-24967**). High Speed Bleeder **No. 70** P 23985 Main Metering Jet **.044"** P-19442 (**Tool T-24924**); Use **Tool T-19099** Screwdriver for removing main jet plug Main metering system controls the flow of fuel up to approximately 65 to 70 M P H.

POWER SYSTEM—Power By Pass Jet **No. 56** P 21657, Power jet to come into operation at 5" to 6" of manifold vacuum, which is approximately 65 to 70 M P H (**Tool T-24733**) used to remove vacuum power piston

ACCELERATION—Pump Discharge Nozzles **No. 68** P 24594, Pump capacity **12** to **16** c c per 10 fast strokes, and **16** to **20** c c per 10 slow strokes with pump rod link set in minimum setting Pump travel 15/32" Pump action takes place during acceleration period only (**Tool T-24972.**)

IDLE SYSTEM—Idle Discharge holes **Nos. 56-60.** With throttle valve fully closed and **No. 60** drill in idle hole, edge of valve is located **.020" + — .004"** from **No. 60** drill, Idle Air Bleed **No. 38** P-24683 in Throttle Body, **No. 60** in Main Body, Idle Tube **No. 65** 382572 **Adjustment:** Adjust to smooth running one barrel at a time, OUT to make richer and IN to make leaner, throttle at 7 to 8 M P H.

VACUUM SPARK CONTROL—With throttle fully closed and **No. 56** drill in spark hole, edge of valve is located **Flush** from **No. 56** drill (2 No 56 spark holes)

FLANGE GASKET—P-18165.

SPECIAL TOOLS REQUIRED—Use Studebaker complete Tool Kit **SER-386** T-24733 Float Adj and power piston wrench T-24967 Main Discharge Jet Remover, T-24924 Main Metering Jet Wrench, T 24970 By Pass Jet and Check Valve Tester, T 24972 Pump Capacity Burrette Gauge, T-24968 Handle T-19099 Main jet plug screwdriver, T-20140 Float Needle Valve Seat Socket Wrench, T 24971 Float Gauge

MOTOR TUNE-UP DATA

SPARK PLUG—.025".
Clean and adjust at regular intervals.

DISTRIBUTOR—.018" **to** .024". **Breaker gap set** .018" **to** .024". **Replace if necessary.**

VALVES—Intake: .016"; **Exhaust:** .016".
Engine cold.

IGNITION TIMING—Stationary contacts to open for No. 1 cylinder when top dead center "UDC-1-8" mark is in line with pointer.

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

AUTOMATIC CHOKE CONTROL

GENERAL DESCRIPTION

The automatic choke control is built into a housing integral with the carburetor. The principles used in the operation of the automatic choke are manifold vacuum, thermostat spring, and an offset choke valve in the carburetor The vacuum piston and thermostat are directly connected to the carburetor choke valve and accurately control the opening and closing of the choke valve under varying operating temperatures and at various throttle positions. A tube leading from the exhaust manifold to the thermostat chamber transmits heat to govern the tension of the thermostat spring. A fast idle cam operating in conjunction with the automatic choke provides the proper throttle opening for a cold engine and thereby prevents the engine from stalling during the warming-up period.

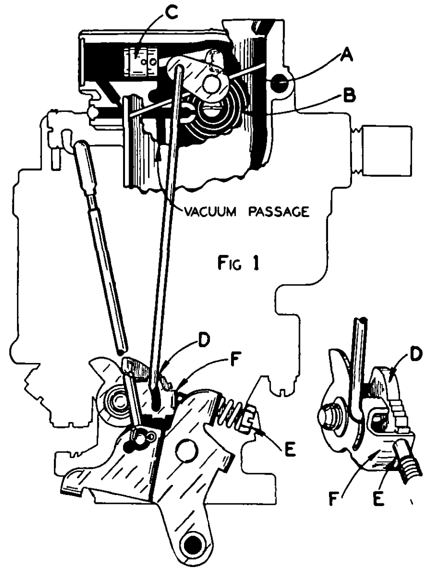


FIG 1

OPERATION AND ADJUSTMENTS

CHOKE CLOSED—FAST IDLE—COLD ENGINE—FIG. 1

When the engine becomes cold, the thermostat "B" also cools and gradually gains tension. The thermostat is unable to close the choke valve "A" until the throttle is opened **It is therefore necessary to depress the accelerator pedal slightly and then allow it to return to normal position before making a start.** Opening the throttle in this manner permits the throttle stop screw "E" to be moved away from the fast idle cam "D." This allows the choke valve to close in accordance with the thermostat tension. The throttle stop screw then comes to rest on a higher lobe of the fast idle cam or on the ear of the loose lever "F" if the choke valve is completely closed as shown in Fig. 1. This provides the proper throttle opening for the prevailing engine temperature. The choke valve "A" is held in closed position during the cranking period by the tension of the thermostat "B."

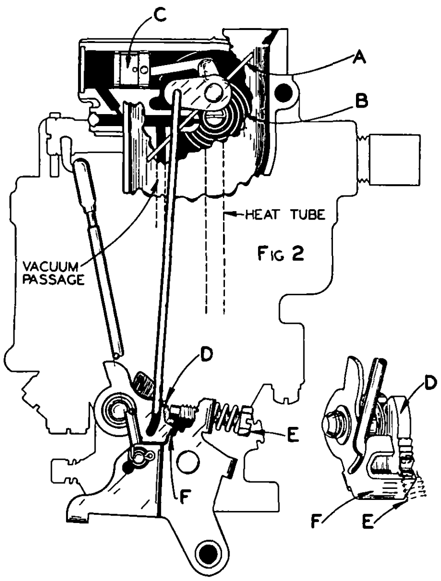


FIG 2

CHOKE PARTIALLY OPENED—ENGINE RUNNING—WARMING UP PERIOD—FIG. 2

When the engine begins to fire, the manifold vacuum thus created pulls the vacuum piston "C," opening the choke valve "A" against the tension of the thermostat "B." Sufficient air is thereby admitted to give a satisfactory running mixture. **When the engine continues to run, it is necessary to open the throttle slightly, which procedure ordinarily occurs when driving the car away. If the car is permitted to stand and idle, the throttle should be opened slightly and then allowed to return to slow idle position.** As the choke valve opening is increased, the fast idle cam "D" is allowed to revolve so that the throttle stop screw "E" comes to rest on a lower step when the throttle is opened and then permitted to close.

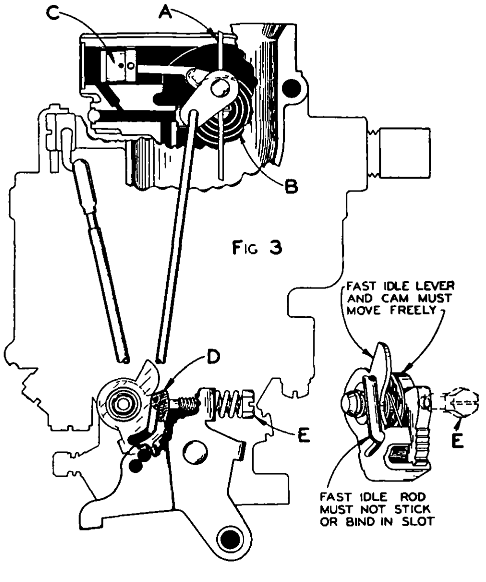

C
A
B
D
E
FAST IDLE LEVER AND CAM MUST MOVE FREELY
E
FAST IDLE ROD MUST NOT STICK OR BIND IN SLOT

FIG 3

ENGINE WARM—CHOKE WIDE OPEN—SLOW IDLE—FIG. 3

While the engine continues to run, the amount that the choke valve is opened against the tension of the thermostat spring "B" is governed by the quantity of inrushing air past the off-center choke valve and the travel of the vacuum piston "C" Heat is transmitted into the thermostat chamber by hot air being drawn from the "stove" on the exhaust manifold. The thermostat gradually absorbs sufficient heat until it does not offer any further resistance to the choke valve opening. At the same time the fast idle cam "D" rotates until the throttle stop screw "E" is at normal idle position, FIG. 3 The throttle stop screw should be adjusted for a car speed of 7 to 8 miles per hour with the engine at normal operating temperature. NOTE: It is essential that the lever and cam move freely and that the rod does not stick or bind in the slot of the lever.

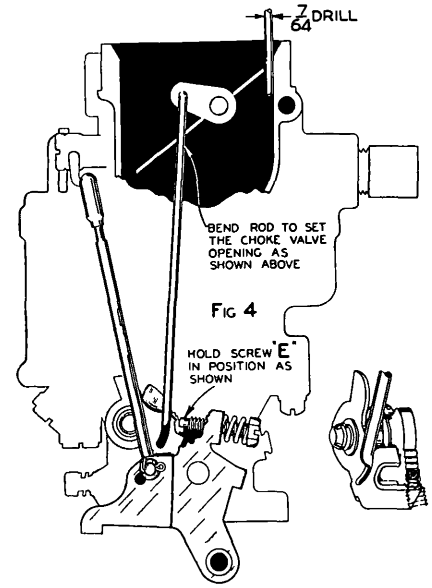

7/64 DRILL
BEND ROD TO SET THE CHOKE VALVE OPENING AS SHOWN ABOVE
HOLD SCREW "E" IN POSITION AS SHOWN

FIG 4

CHECKING FAST IDLE ADJUSTMENT—FIG. 4

To check the fast idle setting of the carburetor, it is merely necessary to hold the stop screw "E" on the high lobe of the fast idle cam as illustrated in FIG. 4. Move the choke valve as far as possible to the closed position. The opening that remains should be equivalent to a **7/64" drill.** If this amount of opening is not obtained, it is only necessary to slightly bend the fast idle rod at the point indicated in FIG. 4. Care should be taken so as not to cause a bind in the fast idle mechanism.

CHOKE RELEASE—FIG. 5

If for any reason the engine should become flooded, the choke valve can be partially opened by depressing the accelerator pedal to the full extent of its travel. This results in ear "G" of the throttle lever making contact with the fast idle loose lever, rotating it and forcing the choke valve partially open.

With the throttle in the wide open position, the space between the top of the choke valve and the air horn should be between .156" and .187". This can be measured by placing a drill of **11/64"** diameter between the valve and the air horn. If it is necessary to readjust this, it can be done by bending ear "G" to the desired position. **Tool T-25056** choke valve setting gauge is recommended instead of using drills.

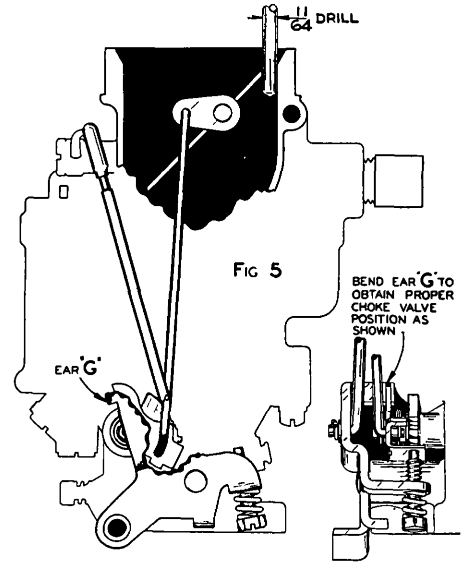
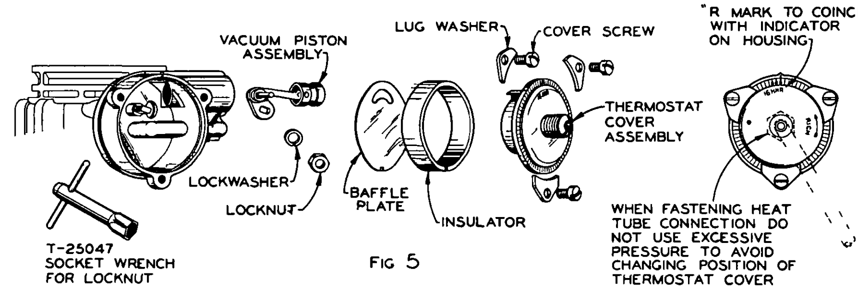


FIG 5

SERVICING THE AUTOMATIC CHOKE CONTROL


VACUUM PISTON ASSEMBLY
LUG WASHER
COVER SCREW
"R" MARK TO COINCIDE WITH INDICATOR ON HOUSING
THERMOSTAT COVER ASSEMBLY
LOCKWASHER
LOCKNUT
BAFFLE PLATE
INSULATOR
T-25047 SOCKET WRENCH FOR LOCKNUT

WHEN FASTENING HEAT TUBE CONNECTION DO NOT USE EXCESSIVE PRESSURE TO AVOID CHANGING POSITION OF THERMOSTAT COVER

FIG 5

DISASSEMBLY

1. Disconnect the heat tube from the thermostat housing.
2. Remove carburetor from manifold.
3. Remove thermostat cover screws and lug washers. Thermostat cover assembly can then be taken off the choke housing.
4. Remove thermostat cork insulator and baffle plate.
5. Loosen locknut and remove lockwasher
6. Remove vacuum piston assembly from housing
7. With a clean rag saturated with acetone or alcohol, thoroughly clean the cylinder walls of any dirt or other foreign material which may have accumulated in regular service Use compressed air to blow out all of the channels The surface of the piston should also be thoroughly cleaned Do not use any abrasive materials for cleaning piston or cylinder.

REASSEMBLY

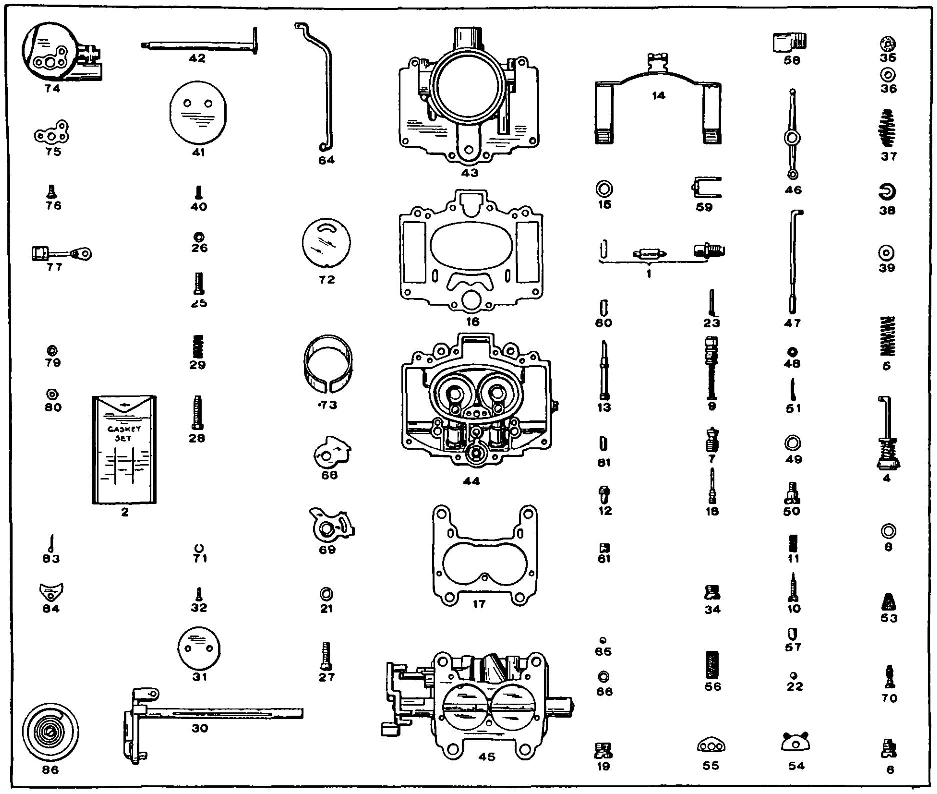
1. Place vacuum piston in cylinder **DO NOT USE ANY TYPE OF LUBRICANT ON PISTON OR IN CYLINDER. THIS IS VERY IMPORTANT.** Assemble lever onto choke stem. Next assemble lockwasher, and locknut, fastening the nut lightly with Tool T-25047.
2. Replace thermostat baffle plate and thermostat cork insulator. (Replace insulator in case the one originally used tends to buckle or does not fit properly as this will cause the vacuum piston lever to bind)
3. Place thermostat on choke housing with hook of thermostat down. Rotate in rich direction until the letter "R" coincides with projection on thermostat housing. This procedure is recommended to insure the contacting of the hook of the thermostat spring with pin in the lever of the vacuum piston.

THERMOSTAT ADJUSTMENT

The thermostat spring is set at the factory to give satisfactory performance under normal conditions To compensate for the wide range in volatility of the various brands of gasoline, three markings are incorporated on the outside of the thermostat cover, namely H, M and R. The standard setting at the factory is with "R" coinciding with the highest projection on the thermostat housing flange and is for use with regular or commercial brands of gasoline If by having the cover set at "R" the engine tends to load up or overchoke, the cover should be moved to "M" which provides a leaner setting. Where high volatile fuels are continuously used, it may be desirable to set the cover plate on "H" The thermostat that is originally installed need not be changed unless it is tampered with. In such cases the entire assembly should be replaced

For checking the thermostat, it can be done by submerging the thermostat assembly in water of 70° temperature for approximately 10 minutes so that it can assume a natural position. The air horn should be cooled or warmed to as near 70° as possible. Place the thermostat assembly onto the housing and rotate it until the choke valve just closes. In this position "R" on the cover should **approximately** coincide with the projection on the housing flange.

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No.	Part No	Part Name
	1	**P-22499**	Float Needle Valve Clip and Seat **(NOT VAR)**
	2	**382393**	Complete Gasket Set
	4	**382443**	Pump Piston Link and Spring (Complete)
	5	**P-22870**	Spring—Pump Duration
	6	**P-18144**	Pump Inlet Check Valve
	7	**P-21657**	Power By Pass Jet No 56 **(NOT VAR)**
	8	**P-19448**	Gasket—By Pass Jet
	9	**P-22803**	Vacuum Power Piston
	10	**P-15478**	Idle Needle Valve
	11	**P-18710**	Spring—Idle Needle Valve
	12	**P-19442**	Metering Jet **.044″** **(VAR)**
	13	**382408**	Main Discharge Jet No 36 **(NOT VAR)**
	14	**P-22443**	Float with Lever
	15	**P-2885**	Gasket—Float Needle Valve Seat
	16	**382255**	Gasket—Air Horn
	17	**P-24735**	Gasket—Main Body
	18	**382572**	Idle Tube
	19	**P-23902**	Plug—Main Discharge Jet
	21	**P-3157**	Lockwasher—Main Body Attach Screw
	22	**P-18772**	Lead Ball
	23	**P-22439**	Fulcrum Pin—Float Lever
	25	**P-2475**	Screw—Air Horn Attaching
	26	**P-6668**	Lockwasher—Air Horn Attaching Screw
	27	**P-709**	Screw—Main Body Attaching
	28	**P-19103**	Screw—Throttle Stop
	29	**P-15831**	Spring—Throttle Stop Screw
	30	**P-24632**	Throttle Lever and Stem
	31	**P-24740**	Throttle Valve
	32	**P-23956**	Screw—Throttle Valve Attaching
	34	**P-24678**	Plug—Check Valve
	35	**P-17380**	Washer—Felt
	36	**P-17060**	Washer—Splash—Pump Link
	37	**P-22643**	Spring—Packing Retainer
	38	**P-22045**	Washer—Cup
	39	**P-22046**	Washer—Spring Retainer
	40	**P-4522**	Screw—Choke Valve Attach
	41	**P-23913**	Choke Valve
	42	**P-23959**	Choke Stem and Lever
	43	**P-24713**	Assy —Air Horn
	44	**382484**	Assy —Main Body **1-1/32″** Venturi **No. 70** H S Bleed **No. 60** Idle Air Bleeder **(VAR.)**
	45	**382483**	Assy —Throttle Body (Complete with **No. 56-60** Idle Hole **No 38** Idle Air Bleed **2 No. 56** Spark Holes Throttle Valve and Stem **(VAR)**
	46	**P-24677**	Pump Lever
	47	**P-22620**	Pump Rod
	48	**P-9394**	Washer—Pump Rod
	49	**P-19820**	Spring—Washer—Pump Lever Fulcrum Screw
	50	**P-20611**	Fulcrum Screw—Pump Lever
	51	**P-7170**	Cotter Pin
	53	**P-23858**	Strainer—Check Valve
	54	**P-24594**	Nozzle—Pump Discharge **No** 68 **(VAR)**
	55	**P-24668**	Gasket—Pump Discharge Nozzle
	56	**P-23912**	Strainer—Gasoline
	57	**P-23985**	H S Bleeder No 70 **(NOT VAR)**
	58	**P-23911**	Elbow—Gas Connection
	59	**P-22441**	Hanger—Float
	60	**P-22523**	Clip—Float Needle Valve
	61	**P-6406**	Plug—Float Level Sight
	62	**P-23507**	Plug—Idle Hole (Not illustrated)
	64	**382195**	Rod—Fast Idle
	65	**P-17030**	Ball—Pump Channel Check
	66	**P-17063**	Gasket—Pump Nozzle Screw
	68	**P-23993**	Cam—Fast Idle
	69	**P-23995**	Lever—Fast Idle Cam
	70	**P-24669**	Screw—Pump Discharge Nozzle
	71	**P-23974**	Snap Ring—Fast Idle Cam
	72	**P-23051**	Plate—Choke Housing Baffle
	73	**P-24812**	Insulator—Choke Housing
	74	**382594**	Auto Choke Housing
	75	**P-23297**	Gasket—Auto Choke Housing
	76	**P-12016**	Screw—Auto Choke Housing Attach
	77	**P-24623**	Vacuum Piston and Link
	79	**P-15875**	Lockwasher—Vac Piston Link Attach Nut
	80	**P-16571**	Nut—Vac Piston Link Attach
	81	**P-24683**	Bleeder—Idle Air No 38 **(NOT VAR.)**
	83	**112-S-1**	Cotter Pin—Fast Idle Rod
	84	**P-23932**	Washer—Therm Cover Attach Screw
	85	**P-2866**	Screw—Therm Cover Attach (Not Illustrated)
	86	**382479**	Thermostat Assy

BENDIX PRODUCTS DIVISION

SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

Printed in U S A

STROMBERG "BXOV-26" CARBURETOR

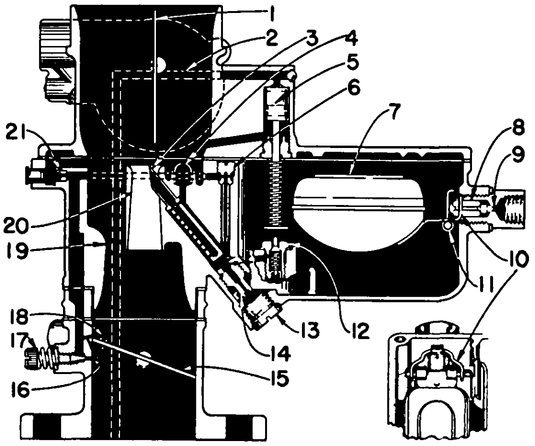
STROMBERG NO 380036 (CODE NO 6-98) STUDEBAKER SYMBOL NO. 512847

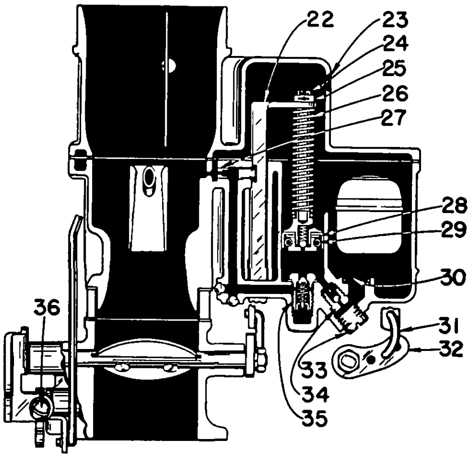
SIZE 1-3/8" D D S A E 2-11/16" FLANGE CENTERS

1941
Studebaker
MODEL 11A
3-5/16" x 4-3/8"—6 cyl.

PARTS ILLUSTRATED

1 Choke Valve
2 Vacuum Passage
3 Main Discharge Jet
4 High Speed Bleed
5 Vacuum Power Piston
6 Idle Tube
7 Float
8 Float Needle Valve
9 Float Needle Valve Seat
10 Float Fulcrum Pin Clip
11 Float Fulcrum Pin
12 Power By Pass Jet
13 Main Disch Jet Plug
14 Metering Jet
15 Throttle Valve
16 Idle Discharge Holes
17 Idle Needle Valve
18 Vac Spark Holes (3)
19 Primary Venturi
20 Auxiliary Venturi
21 Idle Air Bleed
22 Pump Rod
23 Float Chamber Vent
24 Pump Stem
25 Pump Stem Nut
26 Pump Duration Spring
27 Pump Discharge Nozzle
28 Pump Piston
29 Pump Piston Exp Spring
30 Pump Inlet Strainer
31 Pump Link
32 Pump Lever
33 Check Valve Plug
34 Pump Inlet Check Valve
35 Pump By Pass Jet
36 Throttle Stop Screw





Note—Specifications below are for latest production; previous major changes listed on parts page.

FUEL LEVEL—Measure **5/8"** below top surface of float chamber (without gasket) at 3 lbs pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level).

MAIN METERING SYSTEM—Venturi **1-3/16"**; Main Discharge Jet **No. 28-36** No. 382492 (**Tool T-24967**) High Speed Bleeder **No. 70** P-23985. Main Metering Jet **.057"** P-19442 (**Tool T-24924**); Use **Tool T-19099** Screwdriver for removing main jet plug Main metering system controls the flow of fuel up to approximately 65 to 70 M P H

POWER SYSTEM—Power By-Pass Jet **No. 54** P-21197, Power jet to come into operation at **4"** to **6"** of manifold vacuum, which is approximately 65 to 70 M P H (**Tool T-24733**) used to remove vacuum power piston

ACCELERATION—Pump Discharge Reducer **No. 70** P-24067, Pump By-Pass Jet **No. 63** P-23742, Pump capacity **6** to **10** c c per 10 fast strokes, and **16** to **20** c c per 10 slow strokes with pump rod link set in middle setting 13/32" Pump Stroke Pump action takes place during acceleration period only· (**Tool T-24972.**)

IDLE SYSTEM—Idle Discharge holes **Nos. 56-60.** With throttle valve fully closed and **No. 60** drill in idle hole, edge of valve is located **.010"** + — **.004"** from **No. 60** drill, Idle Air Bleed **No. 54** P-20470, Idle Tube **No. 70** P-21778 **Adjustment:** Adjust to smooth running, OUT to make richer and IN to make leaner, throttle at 7 to 8 M.P H

VACUUM SPARK CONTROL—With throttle fully closed and **No. 56** drill in spark hole above valve, edge of valve is located **Flush** from **No. 56** drill. Drill 2 No 56 holes above throttle valve and 1 No. 56 hole drilled at random below valve.

FLANGE GASKET—P-24314

SPECIAL TOOLS REQUIRED—Use Studebaker complete Tool Kit **SER-386** T 24733 Float. Adj. and power piston wrench T-24967 Main Discharge Jet Remover, T 24924 Main Metering Jet Wrench; T-24970 By-Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burrette Gauge, T-24968 Handle. T-19099 Main jet plug screwdriver.

MOTOR TUNE-UP DATA

SPARK PLUG—.025".
Clean and adjust at regular intervals.

DISTRIBUTOR—.020". Breaker gap set .020".
Replace if necessary.

VALVES—Intake: .016"; Exhaust: .016".
Engine cold.

IGNITION TIMING—Breaker contacts to open for No. 1 cylinder when the "IGN" mark on vibration damper is in line with pointer on timing gear cover.

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

AUTOMATIC CHOKE CONTROL

GENERAL DESCRIPTION

The Automatic Choke Control is built integral with the carburetor. The principles of operation are the same as previously used, namely: manifold vacuum, heat on a thermostat spring and offset choke valve in the carburetor. The vacuum piston and thermostat are directly connected to the carburetor choke valve and accurately control the opening and closing of the choke valve under varying operating temperatures. A tube leading from the exhaust manifold to the thermostat chamber transmits heat to govern the tension of the thermostat spring. A fast idle cam for the throttle screw prevents the engine from stalling during the warming-up period.

OPERATION AND ADJUSTMENTS

CHOKE CLOSED—FAST IDLE

When starting a cold or warm engine, it is necessary to depress the foot accelerator momentarily. This allows the choke valve to close and the fast idle cam revolves under the stop screw for proper starting position. Fig. 1 shows the position of the mechanism after this has been done. The choke valve "A" is held in closed position during the cranking period by the tension of the thermostat spring "B."

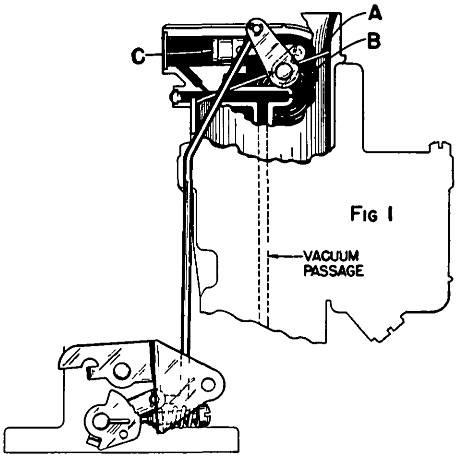


FIG I

CHOKE PARTIALLY OPEN—ENGINE FIRING

As the engine begins to fire, the manifold vacuum which is created pulls vacuum piston "C" and opens choke valve "A" against the tension of the thermostat spring "B." Sufficient air is thereby admitted to give a satisfactory running mixture. With this action the fast idle cam is allowed to revolve to a lower step. Fig. 2.

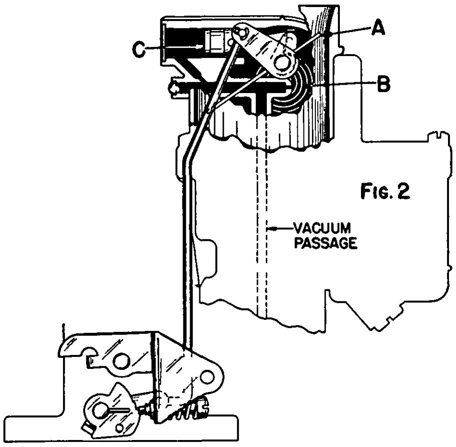


FIG. 2

ENGINE WARM—SLOW IDLE

While the engine continues to run the choke valve "A" is forced open by the inrushing air against the tension of the thermostat spring "B." Heat is transmitted into the thermostat chamber, and the thermostat spring gradually absorbs heat so that its tension decreases until it does not offer any further resistance to the choke valve opening. The choke valve continues to open and allows the fast idle cam to rotate until the throttle stop screw is at normal idle position. See Fig. 3.

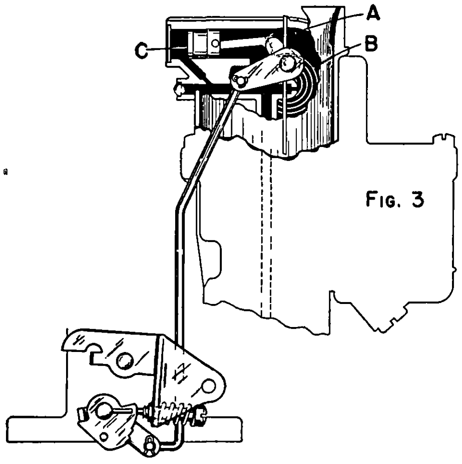


FIG. 3

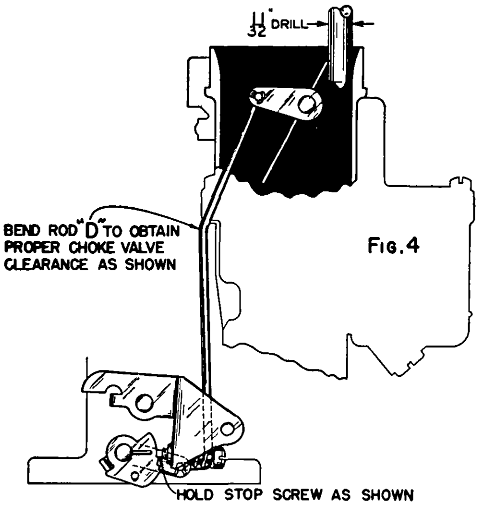

11/32" DRILL
BEND ROD "D" TO OBTAIN PROPER CHOKE VALVE CLEARANCE AS SHOWN
HOLD STOP SCREW AS SHOWN

FIG. 4

CHOKE RELEASE AND FAST IDLE ADJUSTMENT

If for any reason the engine should become flooded, the choke valve can be partially opened by depressing the accelerator pedal to the full extent of its travel. This action will admit sufficient air to clear the manifold. The amount of choke valve opening is controlled by the fast idle rod and therefore only one adjustment is required.

To check the adjustment, hold the throttle stop screw on the low lobe of the fast idle cam and against the step as illustrated. Move the choke valve as far as possible to closed position. The opening that remains should be equivalent to a 11/32" drill. If this amount of opening is not obtained it is necessary to adjust the rod "D" at the bend as required. Care should be taken so as not to cause a bind in the fast idle mechanism.

SERVICING THE AUTOMATIC CHOKE CONTROL

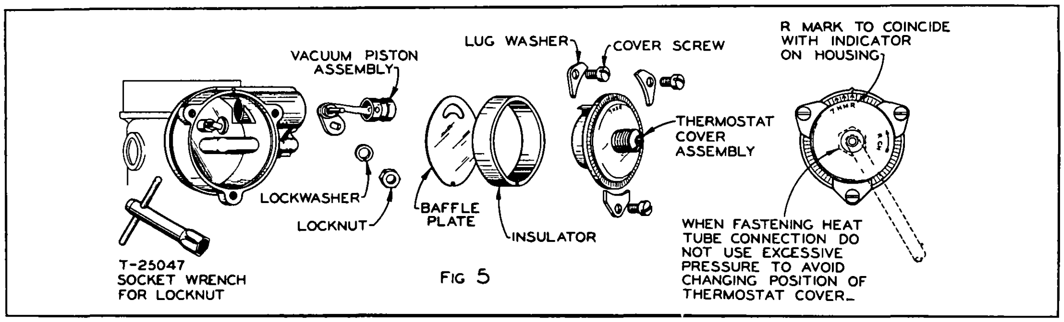

VACUUM PISTON ASSEMBLY
LUG WASHER
COVER SCREW
R MARK TO COINCIDE WITH INDICATOR ON HOUSING
THERMOSTAT COVER ASSEMBLY
LOCKWASHER
LOCKNUT
BAFFLE PLATE
INSULATOR
T-25047 SOCKET WRENCH FOR LOCKNUT
WHEN FASTENING HEAT TUBE CONNECTION DO NOT USE EXCESSIVE PRESSURE TO AVOID CHANGING POSITION OF THERMOSTAT COVER.

FIG 5

DISASSEMBLY AND ASSEMBLY

To disassemble·—

1. Disconnect the heat tube from the thermostat housing.
2. Remove carburetor from manifold
3. Remove thermostat cover screws and lug washers. Thermostat cover assembly can then be taken off the choke housing.
4. Remove thermostat cork insulator and baffle plate.
5. Remove lock nut with tool **T-25047.** Remove lock washer.
6. Loosen housing attaching screws slightly, which will make it easier to remove vacuum piston assembly from housing.
7. With a clean rag saturated with Acetone or alcohol, thoroughly clean the cylinder walls of any dirt or foreign material which may have accumulated in regular service. Use compressed air to blow out all of the channels The surface of the piston should also be thoroughly cleaned. Do not use any abrasive materials for cleaning piston or cylinder

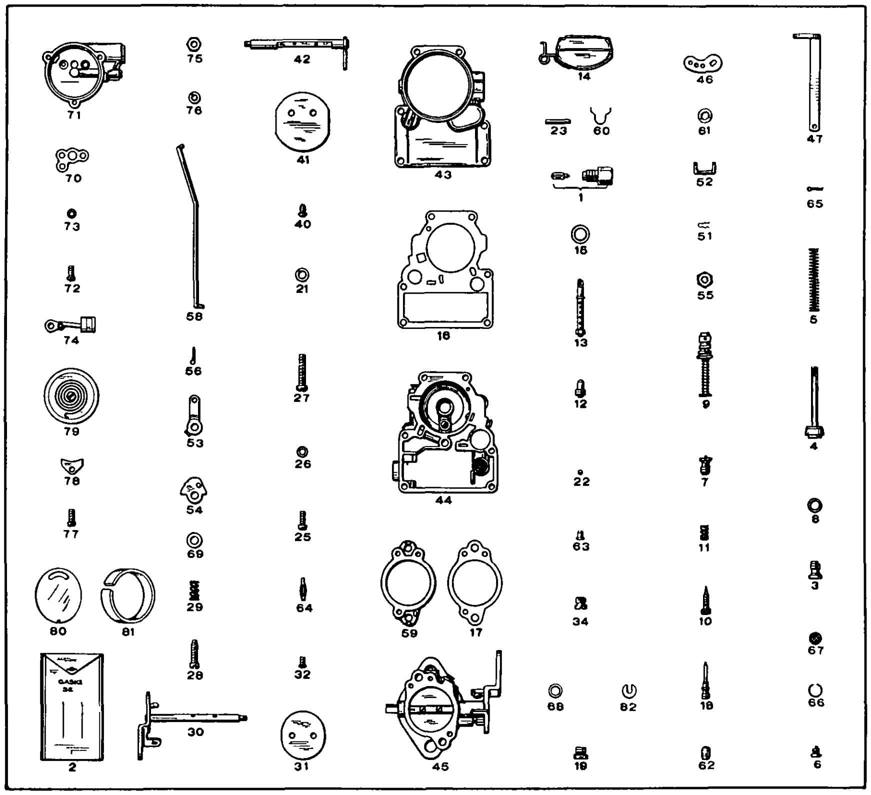
To assemble.—

1. Place vacuum piston in cylinder. **Do not use any type of lubricant on piston or in cylinder.** Assemble lever onto choke stem. Tighten housing attaching screws securely.
2. Assemble lockwasher and lock nut. Use tool **T-25047** to fasten lock nut securely Replace thermostat baffle plate and cork insulator. (If cork insulator buckles or fits improperly it should be replaced as this will cause the lever of the vacuum piston to bind.)
3. Check to see that the choke valve can drop open freely without the slightest lag.
4. Place thermostat on housing with hook of thermostat spring down. Rotate in rich direction until the mark "R" coincides with the projection on the thermostat housing. This action is recommended to insure that the thermostat spring makes the proper contact with the pin in the vacuum piston lever

THERMOSTAT ADJUSTMENT

The thermostat is calibrated and properly set at the factory to give satisfactory performance under normal conditions. To compensate for the wide range in volatility of the various brands of gasoline, three markings are incorporated on the outside of the thermostat cover, namely: H, M and R. The standard setting at the factory is with "R" coinciding with the highest projection on the thermostat housing flange and is for use with regular or commercial brands of gasoline. If by having the cover set at "R" the engine tends to load up or overchoke, the cover should be moved to "M" which provides a leaner setting. Where high volatile fuels are continuously used it may be desirable to set the cover plate on "H." The thermostat that is originally installed need not be changed unless it is tampered with. When installing a new thermostat the following procedure can be used, which will provide an **approximate** setting. Submerge the unit in water of 70° temperature. Allow a few minutes for the thermostat to position itself and place a marking with a pencil on the cover to coincide with the center of the hook of the thermostat. "H" setting can then be indicated two graduations from the new marking; "M" four graduations and "R" six. Thoroughly dry the assembly and place on thermostat housing. It may be necessary to vary the adjustment slightly to obtain best possible performance.

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No	Part No	Part Name
	1	P-24063	Float Needle Valve Clip & Seat 036 (NOT VAR)
	2	J-5652-G	Complete Gasket Set
	3	P-23742	Pump By Pass Jet No 63 (NOT VAR)
	* 4	382485	Pump Piston Link and Spring (Complete)
	5	P-24102	Spring—Pump Duration
	6	P-18144	Pump Inlet Check Valve
	7	P-21197	Power By Pass Jet No 54 (NOT VAR)
	8	P-19448	Gasket—By Pass Jet
	9	P-24043	Vacuum Power Piston
	10	P-17402	Idle Needle Valve
	11	P-15481	Spring—Idle Needle Valve
	12	P-19442	Metering Jet 057" (VAR)
	*13	382492	Main Discharge Jet No 28 36 (NOT VAR)
	14	P-22081	Float with Lever
	15	P-10666	Gasket—Float Needle Valve Seat
	16	P-24624	Gasket—Air Horn
	17	P-24609	Gasket—Main Body
	18	P-21778	Idle Tube
	19	P-23902	Plug—Main Discharge Jet
	21	P-3157	Lockwasher—Main Body Attach Screw
	22	P-18772	Lead Ball
	23	P 23272	Fulcrum Pin—Float Lever
	25	P-3199	Screw—Air Horn Attaching
	26	P-1791	Lockwasher—Air Horn Attaching Screw
	27	P-22025	Screw—Main Body Attaching
	28	P-23277	Screw—Throttle Stop
	29	P-15831	Spring—Throttle Stop Screw
	30	P-24612	Throttle Lever and Stem
	31	P-24059	Throttle Valve
	32	P-4522	Screw—Throttle Valve Attaching
	34	P-24678	Plug—Check Valve
	40	P-22573	Screw—Choke Valve Attaching
	41	P-23295	Choke Valve
	42	P-24787	Choke Stem and Lever
	*43	382491	Assy —Air Horn
	*44	382489	Assy —Main Body **1-3/16** Venturi **No 70** H S Bleed **No 54** Idle Air Bleed **No 70** Pump Discharge (VAR)
	*45	382490	Assy —Throttle Body (Complete with **No 56-60** Idle Holes **No 56** Spark Hole Thro Stem & Val) (VAR)
	46	P-21774	Pump Lever
	47	P 24837	Pump Rod
	51	P-19374	Cotter Pin—Pump Link
	52	P-24836	Pump Link
	53	P 24617	Lever—Fast Idle
	54	P-24615	Cam—Fast Idle
	55	P-2290	Nut—Pump Lever
	56	112-S-1	Cotter Pin—Fast Idle Rod
	58	P-24616	Rod—Fast Idle
	59	P-24608	Spacer—Main Body
	60	P-23273	Spring—Float Fulcrum Pin
	61	P-18135	Nut—Pump Stem
	62	P 23985	H S Bleeder No 70 (NOT VAR)
	63	P-15459	Plug—Channel Drive (1/4)
	64	P-24879	Pin—Fast Idle Cam Stop
	65	P-4	Cotter Pin—Pump Stem Nut
	66	P-23271	Spring Clip—Pump Strainer
	67	P-23270	Screen—Pump Strainer
	68	P-23732	Washer—Ch Stem Anti Rattle
	69	P-23203	Washer—Fast Idle Cam
	70	P-23297	Gasket—Auto Choke Housing
	*71	382477	Auto Choke Housing
	72	P-12016	Screw—Auto Choke Housing Attach
	73	P-15346	Lockwasher—Auto Choke Housing Attach Screw
	74	P-24133	Vacuum Piston and Link
	75	P-16571	Nut—Vac Piston and Link Attach
	76	P-15875	Lockwasher—Vac Pist and Link Attach Nut
	77	P-2866	Screw—Therm Cover Attach
	78	P-23932	Washer—Therm Cover Attach Screw
	79	P-24814	Assy —Therm Cover
P-23051	80	~~P-24812~~	Baffle Plate
P-24812	81	~~P-23051~~	Insulator
	82	P-23731	Washer—Anti Rattle—Horseshoe

*Indicates New Parts

BENDIX PRODUCTS DIVISION

SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

STROMBERG "BXO-26" CARBURETOR

STROMBERG NO A-19222 (CODE NO 6-84) STUDEBAKER SYMBOL NO 198466

SIZE 1-1/4" D D S A E 2-11/16" FLANGE CENTERS

THIS AS A UNIT WILL REPLACE 1938 & '39 MODELS
USE 9/16" LONGER THROTTLE ROD

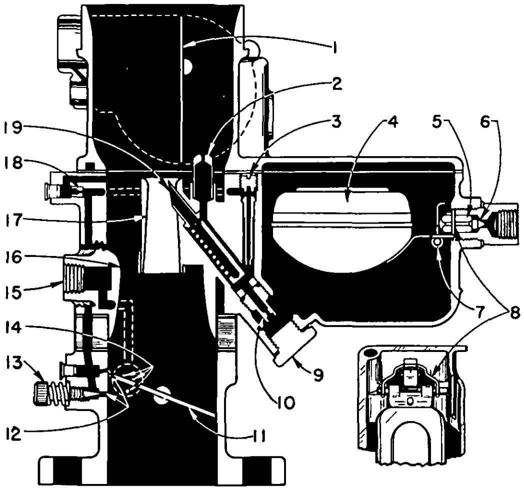
1940
Studebaker

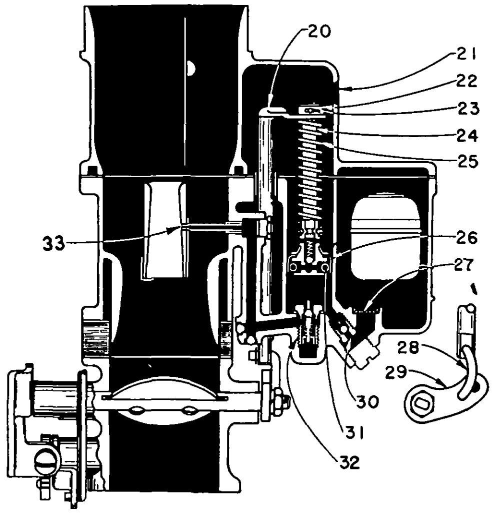
MODEL 10A

3-5/16" x 4-3/8"—6 cyl.

PARTS ILLUSTRATED

1 Choke Valve
2 High Speed Bleeder
3 Idle Tube
4 Float
5 Float Needle Valve
6 Float Needle Valve Seat
7 Float Fulcrum Pin
8 Float Fulcrum Pin Clip
9 Main Discharge Jet Plug
10 Metering Jet
11 Throttle Valve
12 Idle Discharge Holes
13 Idle Needle Valve
14 Vacuum Spark Holes
15 Vacuum Spark Connection
16 Primary Venturi
17 Auxiliary Venturi
18 Idle Air Bleeder
19 Main Discharge Jet
20 Pump Rod
21 Float Chamber Vent
22 Power Jet Adj Nut
23 Cotter Pin
24 Piston Connecting Rod
25 Pump Duration Spring
26 Pump Piston
27 Pump Inlet Screen
28 Pump Lever Link
29 Pump Lever
30 Pump Inlet Check Valve
31 Pump Piston Exp Spring
32 Power By Pass Jet
33 Pump Disch Nozzle





Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **5/8"** below top surface of float chamber (without gasket) at 3 lbs pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level)

MAIN METERING SYSTEM—Venturi **1-3/16"**; Main Discharge Jet **No. 28-36** P-23264 (**Tool T-24967**) High Speed Bleeder **No. 70** P-22369, Main Metering Jet **.059"** P-19442 (**Tool T-24924**); Use **Tool T-19099** Screw Driver for removing main jet plug Main metering system controls the flow of fuel up to approximately 65 to 70 M P H

POWER SYSTEM—Combination Power and Pump By-Pass Jet **2 No. 56** P-21776 The Power Jet is brought into action at approximately 65 to 70 M P H Pump piston to rest on seat of by-pass jet (less over travel) with throttle valve opened **27/64"** + — **1/64"** drill (maximum pump setting) (measure with shank end of **27/64"** drill), adjust pump stem nut to obtain correct setting

ACCELERATION—Pump Discharge Nozzle **No. 64** P-23262, Pump capacity **11** to **14** c c per 10 fast strokes, and **17** to **22** c c per 10 slow strokes with pump rod link set in middle setting Use **Tool T-24972.** Pump action takes place during acceleration period only

IDLE SYSTEM—Idle Discharge holes **Nos. 56-60.** With throttle valve fully closed and **No. 60** drill in idle hole, edge of valve is located **.010"** + — **.004"** from **No. 60** drill, Idle Air Bleed **No. 54** in main body P-20470, Idle Tube **No. 70** P-21778 **Adjustment:** Adjust to smooth running, OUT to make richer and IN to make leaner, throttle at 7 to 8 M P H

VACUUM SPARK CONTROL—With throttle fully closed and **No. 56** drill in spark hole, edge of valve is located **Flush** from **No. 56** drill (**2 No. 56** holes, **1 No. 60** hole below valve drilled at random)

FLANGE GASKET—P 23444

SPECIAL TOOLS REQUIRED—Use Studebaker complete Tool Kit **SER-386**; T-24733 Float Adjuster Wrench, T-24967 Main Discharge Jet Remover, T-24924 Main Metering Jet Wrench, T-24970 By-Pass Jet and Check Valve Tester, T-24972 Pump Capacity Burrette Gauge, T-24968 Handle, T-19099 Main Jet Plug Screw Driver

MOTOR TUNE-UP DATA

SPARK PLUG—.025".
Clean and adjust at regular intervals.

DISTRIBUTOR—.020". Breaker gap set .020".
Replace if necessary.

VALVES—Intake: .016"; Exhaust: .016".
Engine cold.

IGNITION TIMING—Breaker contacts to open for No. 1 cylinder when the "IGN" mark on vibration damper is in line with pointer on timing gear cover.

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

AUTOMATIC CHOKE CONTROL

GENERAL DESCRIPTION

The Automatic Choke Control is built integral with the carburetor. The principles of operation are the same as previously used, namely· manifold vacuum, heat on a thermostat spring and offset choke valve in the carburetor. The vacuum piston and thermostat are directly connected to the carburetor choke valve and accurately control the opening and closing of the choke valve under varying operating temperatures. A tube leading from the exhaust manifold to the thermostat chamber transmits heat to govern the tension of the thermostat spring. A fast idle cam for the throttle screw prevents the engine from stalling during the warming up period.

OPERATION AND ADJUSTMENTS

CHOKE CLOSED—FAST IDLE

When starting a cold or warm engine, it is necessary to depress the foot accelerator momentarily. This allows the choke valve to close and the fast idle cam revolves under the stop screw for proper starting position. Fig. 1 shows the position of the mechanism after this has been done. The choke valve "A" is held in closed position during the cranking period by the tension of the thermostat spring "B."

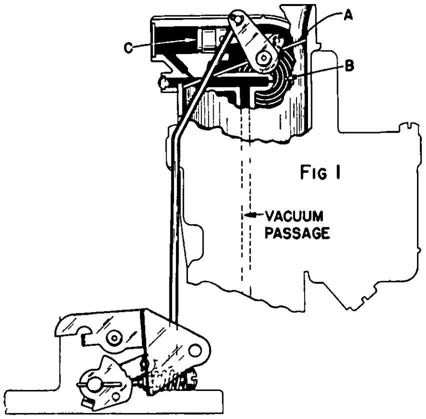


FIG I

CHOKE PARTIALLY OPEN—ENGINE FIRING

As the engine begins to fire, the manifold vacuum which is created pulls vacuum piston "C" and opens choke valve "A" against the tension of the thermostat spring "B." Sufficient air is thereby admitted to give a satisfactory running mixture. With this action the fast idle cam is allowed to revolve to a lower step. Fig. 2.

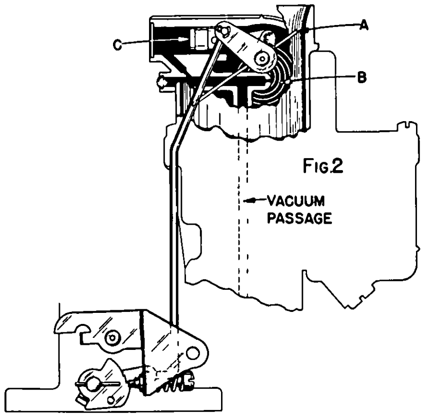


FIG.2

ENGINE WARM—SLOW IDLE

While the engine continues to run the choke valve "A" is forced open by the inrushing air against the tension of the thermostat spring "B." Heat is transmitted into the thermostat chamber, and the thermostat spring gradually absorbs heat so that its tension decreases until it does not offer any further resistance to the choke valve opening. The choke valve continues to open and allows the fast idle cam to rotate until the throttle stop screw is at normal idle position. See Fig. 3

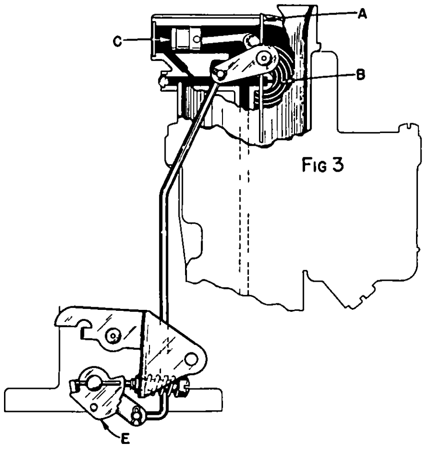


FIG 3

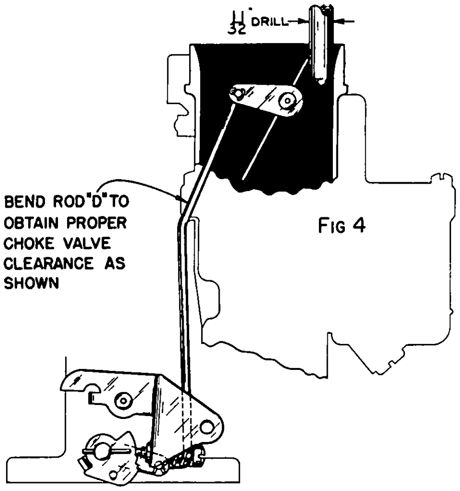

11/32" DRILL
BEND ROD "D" TO OBTAIN PROPER CHOKE VALVE CLEARANCE AS SHOWN

FIG 4

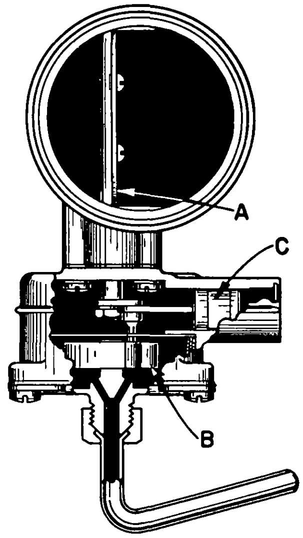
CHOKE RELEASE AND FAST IDLE ADJUSTMENT

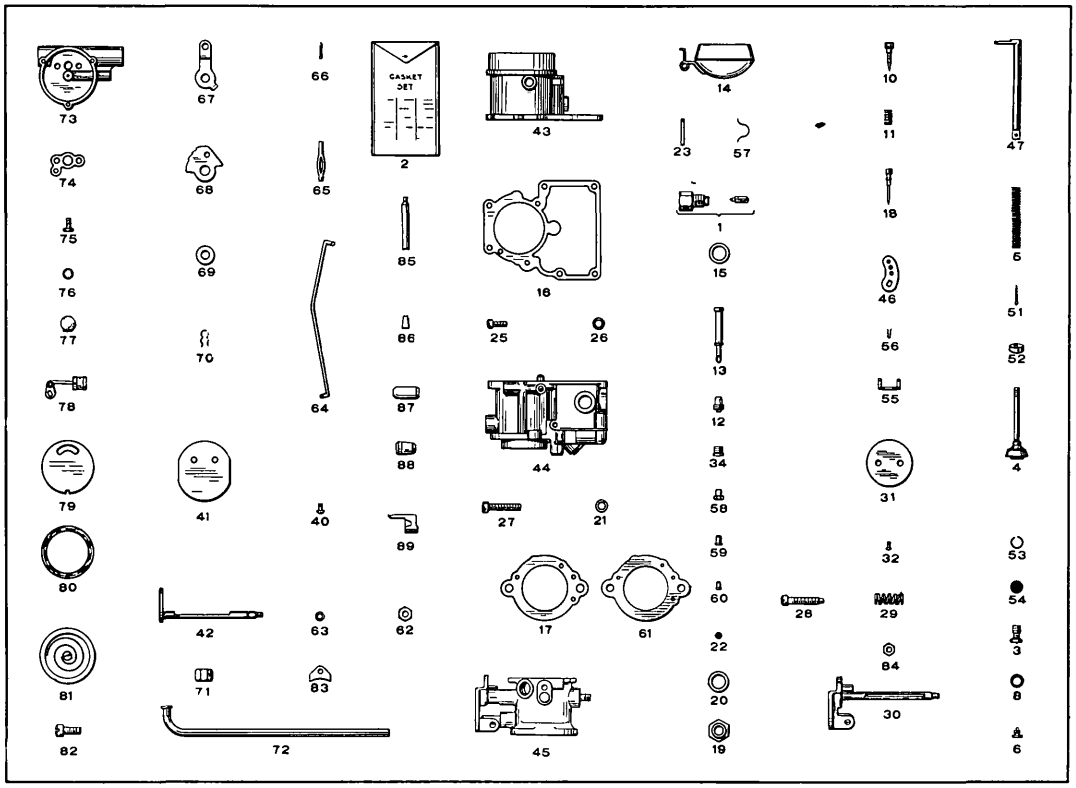
If for any reason the engine should become flooded, the choke valve can be partially opened by depressing the accelerator pedal to the full extent of its travel. This action will admit sufficient air to clear the manifold The amount of choke valve opening is controlled by the fast idle rod and therefore only one adjustment is required.

To check the adjustment, hold the throttle stop screw on the low lobe of the fast idle cam and against the step as illustrated. Move the choke valve as far as possible to closed position. The opening that remains should be equivalent to a 11/32″ drill. If this amount of opening is not obtained it is necessary to adjust the rod "D" at the bend as required. Care should be taken so as not to cause a bind in the fast idle mechanism.

THERMOSTAT ADJUSTMENT

The thermostat spring is set at the factory to give satisfactory performance under normal conditions. To compensate for the wide range in volatility of the various brands of gasoline, three markings are incorporated on the outside of the thermostat cover, namely H, M and R. The standard setting at the factory is with "R" coinciding with the highest projection on the thermostat housing flange and is for use with regular or commercial brands of gasoline. If by having the cover set at "R" the engine tends to load up or overchoke, the cover should be moved to "M" which provides a leaner setting Where high volatile fuels are continuously used it may be desirable to set the cover plate on "H." The thermostat that is originally installed need not be changed unless it is tampered with When installing a new thermostat the following procedure can be used, which will provide an **approximate** setting After assembling the thermostat onto the cover, submerge the unit in water of 70° temperature Allow a few minutes for the thermostat to position itself and place a marking with a pencil on the cover to coincide with the center of the hook of the thermostat "H" setting can then be indicated two graduations from the new marking· "M" four graduations and "R" six Thoroughly dry the assembly and place on thermostat housing It may be necessary to vary the adjustment slightly to obtain best possible performance.





SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No.	Part No.	Part Name
	1	**P-21918**	Float Needle Valve Clip & Seat 093" (**NOT VAR**)
	2	**J-5319-G**	Complete Gasket Set
	3	**P-21776**	Power By Pass Jet No 56 (**NOT VAR**)
	4	**P-19565**	Pump Piston, Link and Spring (Complete)
	5	**P-22020**	Spring—Pump Duration
	6	**P-18144**	Pump Inlet Check Valve
	8	**P-19448**	Gasket—By Pass Jet
	10	**P-17402**	Idle Needle Valve
	11	**P-15481**	Spring—Idle Needle Valve
	12	**P-19442**	Metering Jet .059" (**VAR**)
	13	**P-23264**	Main Discharge Jet No 28 36 (**NOT VAR**)
	14	**P-22081**	Float with Lever
	15	**P-10666**	Gasket—Float Needle Valve Seat
	16	**P-23312**	Gasket—Air Horn
	17	**P 23267**	Gasket—Main Body
	18	**P-21778**	Idle Tube
	19	**P-23265**	Plug—Main Discharge Jet
	20	**P-60308**	Gasket—Main Discharge Jet Plug
	21	**P-3157**	Lockwasher—Main Body Attach Screw
	22	**P-18772**	Lead Ball
	23	**P-23272**	Fulcrum Pin—Float Lever
	25	**P-3199**	Screw—Air Horn Attaching
	26	**P-1791**	Lockwasher—Air Horn Attaching Screw
	27	**P-22867**	Screw—Main Body Attaching
	28	**P-23277**	Screw—Throttle Stop
	29	**P-15831**	Spring—Throttle Stop Screw
	30	**P 24783**	Throttle Lever and Stem
	31	**P-23282**	Throttle Valve (20°) (**NOT VAR**)
	32	**P-4522**	Screw—Throttle Valve Attaching
	34	**P-23269**	Plug—Check Valve
	40	**P-22573**	Screw—Choke Valve Attach
	41	**P 23295**	Choke Valve
	42	**P-24787**	Choke Stem and Lever
	43	**P-23290**	Assy —Air Horn
	44	**P-24809**	Assy —Main Body **1-3/16"** Venturi **No 70** H S Bleeder, **No. 54** Idle Air Bleed **No 64** Pump Disc Tube (**VAR**
	45	**P-24810**	Assy —Throttle Body **No 56-60**, Idle Disch Holes **No. 56-60** Spark Control Holes (**VAR**)
	46	**P-21774**	Pump Lever
	47	**P-23268**	Pump Rod
	51	**P-4**	Cotter Pin—Pump Rod
	52	**P-18135**	Nut—Pump Rod
	53	**P-23271**	Spring Clip—Pump Retainer
	54	**P-23270**	Screen—Pump Strainer
	55	**P-20958**	Pump Link
	56	**P-19374**	Cotter Pin—Pump Link
	57	**P-23273**	Spring—Float Fulcrum Pin
	58	**P-21949**	Plug—Pump Channel 1/4"
	59	**P-15459**	Plug—Idle Air Bleed Channel
	60	**P-15458**	Plug—Idle Disch Channel
	61	**P-23266**	Insulator Gasket—Main Body
	62	**P-16571**	Nut—Vac Piston and Link Attach
	63	**P-15875**	Lockwasher—Vac Piston & Link Attach Nut
	64	**P-24616**	Fast Idle Rod
	65	**P-24618**	Pin—Fast Idle Cam Stop
	66	**112-S-1**	Cotter Pin—Fast Idle Rod
	67	**P-24617**	Fast Idle Cam Lever
	68	**P-24615**	Fast Idle Cam
	69	**P-23203**	Washer—Fast Idle Cam
	70	**P-19374**	Cotter Pin—Fast Idle Lever Rod
	71	**P-23596**	Nut—Heat Tube Connecting
	72	**P 23309**	Heat Tube
	73	**P-24788**	Automatic Choke Housing
	74	**P-23297**	Gasket—Automatic Choke Housing
	75	**P-12016**	Screw—Automatic Choke Housing Attach
	76	**P 15346**	Lockwasher—Auto Choke Housing Attach Screw
	77	**P-22337**	Plug—Spark Control Channel
	78	**P-24133**	Vacuum Piston with Link and Lever
	79	**P-23051**	Baffle Plate
	80	**P-24812**	Insulator—Thermostat Housing
	81	**P-24814**	Thermostat Cover—Thermostat
	82	**P-2866**	Screw—Thermostat Cover Attach
	83	**P-23932**	Washer—Thermostat Cover Attach Screw
	84	**P-2290**	Nut—Pump Lever
	85	**P-23262**	Pump Discharge Tube No 64 (**NOT VAR**)
	86	**P-19430**	Wedge—Pump Discharge Tube
	87	**P-22369**	High Speed Bleeder **No. 70** (**VAR**)
	88	**P-20470**	Idle Air Bleeder No 54 (**NOT VAR**)
	89	**P-23263**	Cup—Small Venturi

BENDIX PRODUCTS DIVISION
SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

STROMBERG BXV-25 CARBURETOR

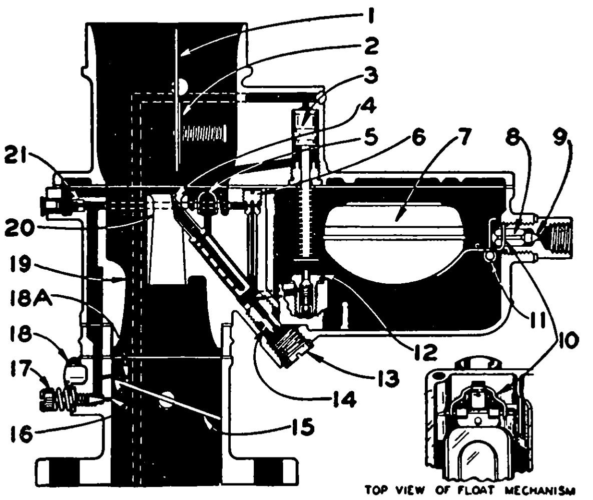
STROMBERG NO A-19282 (CODE NO 6-91A)

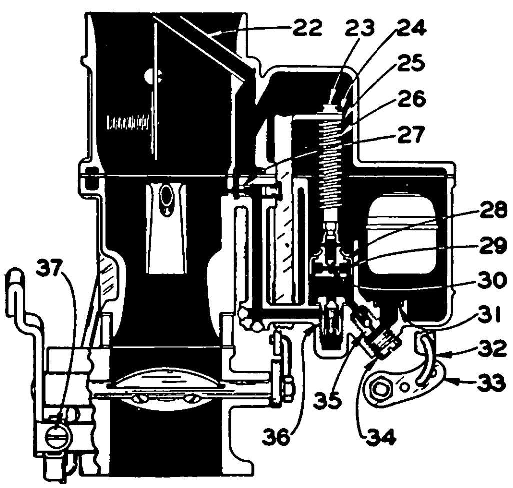
SIZE 1-1/4′ D D S.A E 2-11/16″ FLANGE CENTERS

1939-40
Studebaker
MODEL
CHAMPION
3″ x 3-7/8″—6 cyl.
(Replacement Equipment)

PARTS ILLUSTRATED

1 Choke Valve
2 Choke Relief Valve
3 Vacuum Power Piston
4 Main Discharge Jet
5 High Speed Bleeder
6 Idle Tube
7 Float
8 Float Needle Valve
9 Float Needle Valve Seat
10 Float Fulcrum Pin Clip
11. Float Fulcrum Pin
12 Power By Pass Jet
13 Main Jet Plug
14 Main Metering Jet
15 Throttle Valve
16 Idle Discharge Holes
17 Idle Needle Valve
18 Vacuum Spark Conn
18A Vacuum Spark Hole
19 Primary Venturi
20 Auxiliary Venturi
21 Idle Air Bleed
22 Float Chamber Vent
23 Piston Conn Rod
24 Cotter Pin
25 Pump Piston Rod
26 Pump Duration Spring
27 Pump Discharge Nozzle
28 Pump Piston





29 Pump Piston Exp Spring
30 Pump Relief Valve
31 Pump Inlet Strainer
32 Pump Link
33 Pump Lever
34 Pump Inlet Plug
35 Pump Inlet Check Valve
36 Pump By Pass Jet
37 Throttle Stop Screw

Note—Specifications below are for latest production; previous major changes listed on parts page.

FUEL LEVEL—Measure **5/8″** below top surface of float chamber (without gasket) at 3 lbs pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level).

MAIN METERING SYSTEM—Venturi 1-3/32″; Main Discharge Jet **No. 28-36** 382041 (**Tool T-24967**); High Speed Bleeder **No. 65** P 23901 Main Metering Jet **.054″** P 19442 (**Tool T-24924**); Use **Tool T-19099** Screwdriver for removing main jet plug Main metering system controls the flow of fuel up to approximately 65 to 70 M P H

POWER SYSTEM—Power By Pass Jet **No. 57** P-23348, Power jet to come into operation at **4″** to **6″** of manifold vacuum, which is approximately 65 to 70 M P H (**Tool T-24733**) used to remove vacuum power piston

ACCELERATION—Pump Discharge Reducer **No. 70** P-24067, Pump By-Pass Jet **No. 63**; Pump capacity **11** to **14** c c per 10 slow strokes with pump rod link set in middle setting Pump action takes place during acceleration period only (**Tool T-24972.**)

IDLE SYSTEM—Idle Discharge holes **Nos. 58-66.** With throttle valve fully closed and **No. 66** drill in idle hole, edge of valve is located **.010″** + — **.004″** from **No. 66** drill, Idle Air Bleed **No. 68** P-24611, Idle Tube **No. 72** P-24912 Adjustment Adjust to smooth running, **OUT** to make richer and **IN** to make leaner, throttle at 7 to 8 M P H

THERMOSTAT SETTING—Set Thermostat **7** notches rich

VACUUM SPARK CONTROL—With throttle fully closed and **No. 60** drill in spark hole, edge of valve is located **Flush** with **No. 60** drill (**2 No. 60** spark holes drilled above throttle valve and **1 No. 60** hole drilled at random below)

FLANGE GASKET—P 24314.

SPECIAL TOOLS REQUIRED—Use Studebaker complete Tool Kit **SER 386** T-24733 Float Adj and power piston wrench T-24967 Main Discharge Jet Remover, T-24924 Main Metering Jet Wrench, T-24970 By-Pass Jet and Check Valve Tester, T-24972 Pump Capacity Burrette Gauge, T-24968 Handle T-19099 Main jet plug screwdriver.

MOTOR TUNE-UP DATA

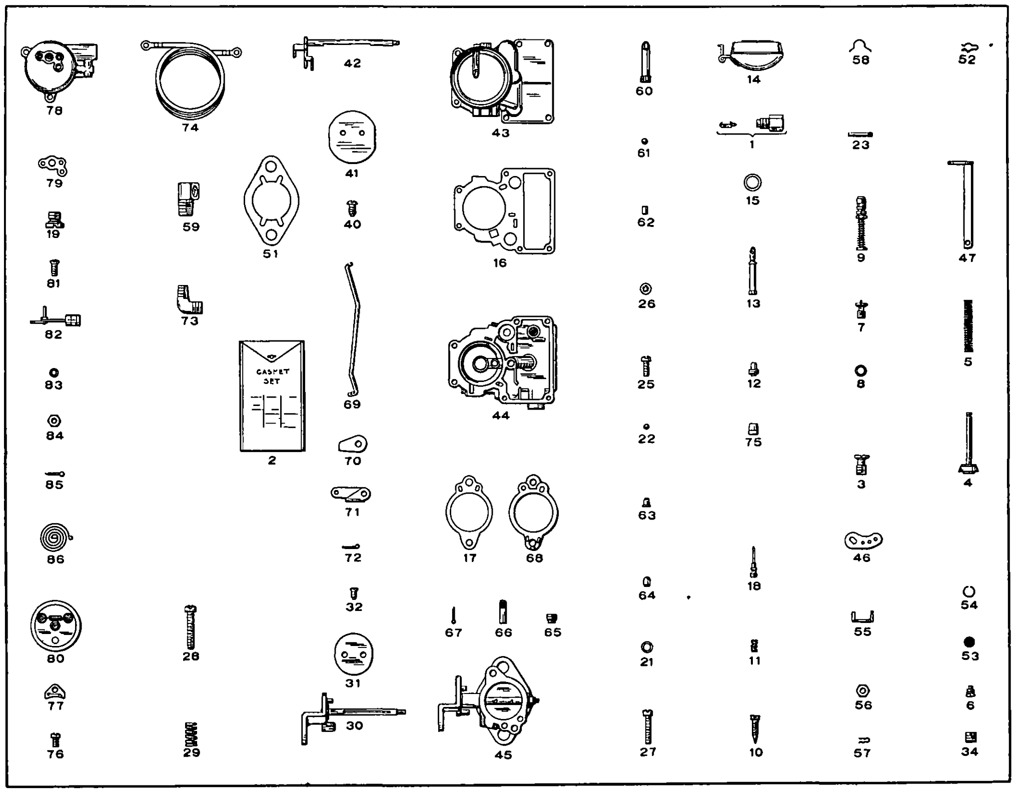
SPARK PLUG—.025″.
Clean and adjust at regular intervals.

DISTRIBUTOR—.020″. Breaker gap set .020″.
Replace if necessary.

IGNITION TIMING—Use timing light.
Breaker contacts to open for No. 1 cylinder when "IGN" mark on flywheel is in line with pointer in engine rear plate.

VALVES—Intake: .016″. Exhaust: .016″.
Engine cold.

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No.	Part No.	Part Name	
	1	**P-24063**	Float Needle Valve Clip and Seat - -	**(NOT VAR)**
	2	**J-5562-G**	Complete Gasket Set	
	3	**P-23742**	Pump By Pass Jet No 63 --	**(NOT VAR)**
	4	**P-24039**	Pump Piston Link --	**(Complete)**
	5	**P-24287**	Spring—Pump Duration--- -	
	6	**P-18144**	Pump Inlet Check Valve -	
	7	**P-23348**	Power By Pass Jet No 57 ---- ---	**(NOT VAR)**
	8	**P-19448**	Gasket—By Pass Jet---	
	9	**P-24043**	Vacuum Power Piston -------	
	10	**P-17402**	Idle Needle Valve -----	
	11	**P-15481**	Spring—Idle Needle Valve -	
	12	**P-19442**	Metering Jet .054" -	**(VAR)**
	13	**382041**	Main Discharge Jet No 28 36 -------	**(NOT VAR)**
	14	**P-22081**	Float with Lever	
	15	**P-10666**	Gasket—Float Needle Valve Seat-------	
	16	**P-24624**	Gasket—Air Horn - ---	
	17	**P-24037**	Gasket—Main Body -	
	18	**P-24917**	Idle Tube --	
	19	**P-23902**	Plug—Main Discharge Jet---	
	21	**P-3157**	Lockwasher—Main Body Attach Screw ----	
	22	**P-18772**	Lead Ball	
	23	**P-23272**	Fulcrum Pin—Float Lever	
	25	**P-3199**	Screw—Air Horn Attaching -	
	26	**P-1791**	Lockwasher—Air Horn Attaching Screw	
	27	**P-22025**	Screw—Main Body Attaching -------	
	28	**P-15456**	Screw—Throttle Stop	
	29	**P-15831**	Spring—Throttle Stop Screw --------	
	30	**P-24234**	Throttle Lever and Stem	
	31	**P-24312**	Throttle Valve	
	32	**P-4522**	Screw—Throttle Valve Attaching ------	
	34	**P-23269**	Plug—Check Valve	
	40	**P-22573**	Screw—Choke Valve Attach ---	
	41	**P-24447**	Choke Valve	
	42	**P-24443**	Choke Stem and Lever - ------	
	43	**P-24799**	Assy —Air Horn --	
	44	**P-24915**	Assy —Main Body 1-3/32" Venturi **No. 65** H S Bleed **No. 70** Pump Disch **No 68** Idle Air Bl ---	
	45	**P-24919**	Assy —Throttle Body **No 58-66** Idle Disch Holes **No 60** Spark Hole ---	
	46	**P-21774**	Pump Lever ----	

Bin Location	Key No	Part No	Part Name	
	47	**P-24042**	Pump Rod ----	
	51	**P-24314**	Gasket—Flange --- -	
	52	**P-21338**	Cotter Pin—Pump Stem	
	53	**P-23270**	Screen—Pump Strainer -	
	54	**P-23271**	Spring Clip—Pump Strainer Screen -	
	55	**P-24041**	Link—Pump -	
	56	**P-2290**	Nut—Pump Lever -	
	57	**P-19374**	Cotter Pin—Pump Link	
	58	**P-23273**	Spring—Float Fulcrum Pin	
	59	**P-16722**	Elbow Union	
	60	**P-24045**	Vent Tube	
	61	**P-21700**	Lead Ball—Vacuum Channel ---	
	62	**P-24067**	Reducer—Vacuum Channel -	
	63	**P-15459**	Plug—Drive (¼") -	
	64	**P-23901**	Bleeder—High Speed No 65 ---	**(NOT VAR)**
	65	**P-3292**	Plug—Gov Conn	
	66	**P-23620**	Pin—Throttle Stop --------	
	67	**P-7170**	Cotter Pin—Fast Idle Cam Lever ---	
	68	**P-24908**	Spacer—Main Body ---	
	69	**P-24060**	Rod—Fast Idle -----	
	70	**P-23622**	Cam—Fast Idle ---	
	71	**P-23621**	Lever—Fast Idle Cam --- ----	
	72	**112-S-22**	Cotter Pin—Fast Idle Rod	
	73	**P-2714**	Street Elbow—Vac Spark	
	74	**P-21987**	Automatic Choke Wire	
	75	**P-24611**	Bleeder—Idle Air No 68 -	**(NOT VAR)**
	76	**P-2866**	Screw—Elect Unit Attach Scr ---	
	77	**P-23932**	Washer—Elect Unit Attach Scr ------	
	78	**P-24442**	Choke Housing --	
	79	**P-23297**	Gasket—Choke Housing Boss --------	
	*80	**382049**	Assy —Thermostat and Electric Unit----	
	81	**P-24445**	Screw—Ch Housing Attach	
	82	**P-24346**	Vacuum Ch Piston and Link	
	83	**P-15875**	Lockwasher—Vac Choke Piston Lever Attach Nut	
	84	**P-16571**	Nut—Vac Choke Piston Lever Attach ---	
	85	**P-4**	Cotter Pin—Thermostat Post -	
	86	**382050**	Thermostat--- -	

*For Carburetors with Code No 6 91 and using P 23432 Thermostat Assembly set Thermostat 12 notches rich

BENDIX PRODUCTS DIVISION

SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

STROMBERG BXV-2 CARBURETOR

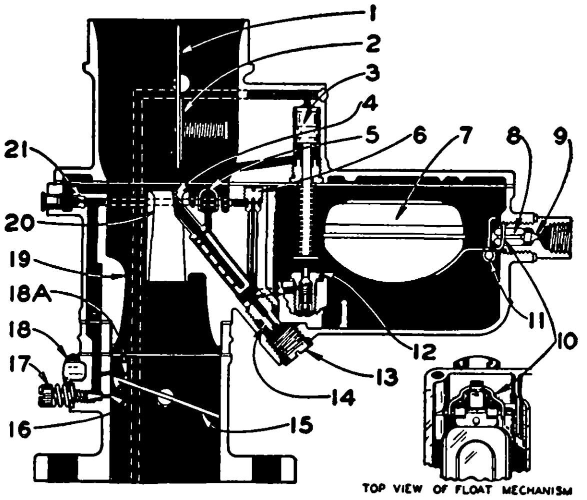
1939-40
Studebaker
MODEL
CHAMPION
3″ x 3-7/8″—6 cyl.
(Replacement Equipment)

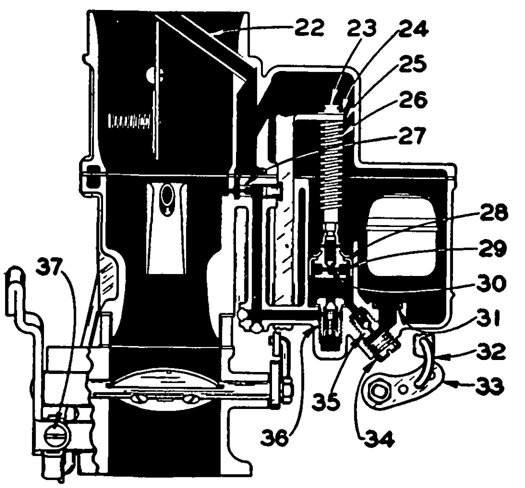
STROMBERG NO. A-19272 (CODE NO. 6-90)

SIZE: 1-1/4″ D. D. S.A.E. 2-11/16″ FLANGE CENTERS

PARTS ILLUSTRATED

1. Choke Valve
2. Choke Relief Valve
3. Vacuum Power Piston
4. Main Discharge Jet
5. High Speed Bleeder
6. Idle Tube
7. Float
8. Float Needle Valve
9. Float Needle Valve Seat
10. Float Fulcrum Pin Clip
11. Float Fulcrum Pin
12. Power By-Pass Jet
13. Main Jet Plug
14. Main Metering Jet
15. Throttle Valve
16. Idle Discharge Holes
17. Idle Needle Valve
18. Vacuum Spark Conn
18A. Vacuum Spark Hole
19. Primary Venturi
20. Auxiliary Venturi
21. Idle Air Bleed
22. Float Chamber Vent
23. Piston Conn. Rod
24. Cotter Pin
25. Pump Piston Rod
26. Pump Duration Spring
27. Pump Discharge Nozzle
28. Pump Piston
29. Pump Piston Exp Spring
30. Pump Relief Valve
31. Pump Inlet Strainer
32. Pump Link
33. Pump Lever
34. Pump Inlet Plug
35. Pump Inlet Check Valve
36. Pump By Pass Jet
37. Throttle Stop Screw





Note—Specifications below are for latest production; previous major changes listed on parts page.

FUEL LEVEL—Measure **5/8″** below top surface of float chamber (without gasket) at 3 lbs. pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level).

MAIN METERING SYSTEM — Venturi **1-3/32″**; Main Discharge Jet **No. 28-36** 382041 (**Tool T-24967**); High Speed Bleeder **No. 65** P-23901. Main Metering Jet **.054″** P-19442 (**Tool T-24924**); Use **Tool T-19099** Screwdriver for removing main jet plug. Main metering system controls the flow of fuel up to approximately 65 to 70 M.P.H.

POWER SYSTEM — Power By-Pass Jet **No. 57** P-23348; Power jet to come into operation at **4″** to **6″** of manifold vacuum, which is approximately 65 to 70 M.P.H. (**Tool T-24733**) used to remove vacuum power piston.

ACCELERATION—Pump Discharge Reducer **No. 70** P-24067, Pump By-Pass Jet **No. 63**; Pump capacity **11** to **14** c.c. per 10 slow strokes with pump rod link set in middle setting. Pump action takes place during acceleration period only. (**Tool T-24972.**)

IDLE SYSTEM—Idle Discharge holes **Nos. 58-66.** With throttle valve fully closed and **No. 66** drill in idle hole, edge of valve is located **.010″ + — .004″** from **No. 66** drill; Idle Air Bleed **No. 68** P-24611; Idle Tube **No. 72** P-24917. Adjustment· Adjust to smooth running, **OUT** to make richer and **IN** to make leaner, throttle at 7 to 8 M P.H

VACUUM SPARK CONTROL—With throttle fully closed and **No. 60** drill in spark hole, edge of valve is located **Flush** with **No. 60** drill. (**2 No. 60** spark holes drilled above throttle valve and **1 No.** 60 hole drilled at random below.)

FLANGE GASKET—P-24314.

SPECIAL TOOLS REQUIRED — Use Studebaker complete Tool Kit **SER 386** T-24733 Float. Adj. and power piston wrench T-24967 Main Discharge Jet Remover; T-24924 Main Metering Jet Wrench; T-24970 By-Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burrette Gauge; T-24968 Handle. T-19099 Main jet plug screwdriver.

MOTOR TUNE-UP DATA

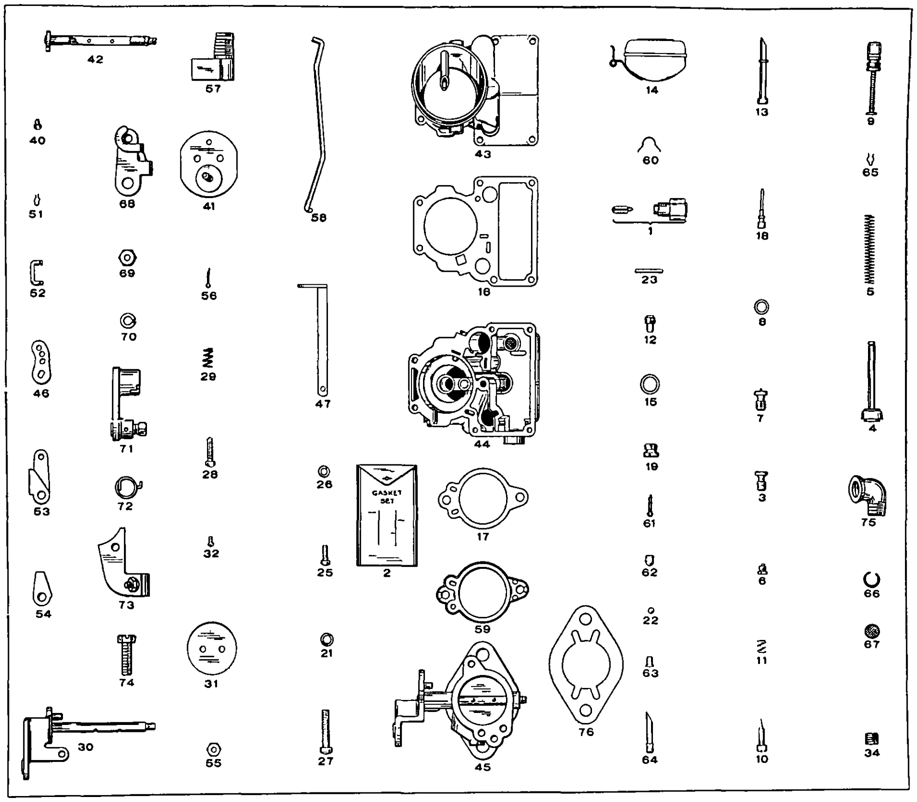
SPARK PLUG—.025″.
Clean and adjust at regular intervals.

DISTRIBUTOR—.020″.
Breaker gap set .020″. Replace if necessary.

IGNITION TIMING—Use timing light.
Breaker contacts to open for No. 1 cylinder when "IGN" mark on flywheel is in line with pointer in engine rear plate.

VALVES—Intake: .016″. Exhaust: .016″.
Engine cold.

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No	Part No	Part Name	
	1	**P-24063**	Float Needle Valve Clip and Seat	**(NOT VAR)**
	2	**J-5409-G**	Complete Gasket Set	
	3	**P-23742**	Pump By Pass Jet **No 63**	**(NOT VAR)**
	4	**P-24039**	Pump Piston Link	**(Complete)**
	5	**P-24287**	Spring—Pump Duration	
	6	**P-18144**	Pump Inlet Check Valve	
	7	**P-23348**	Power By Pass Jet **No 57**	**(NOT VAR)**
	8	**P-19448**	Gasket—By Pass Jet	
	9	**P-24043**	Vacuum Power Piston	
	10	**P-17402**	Idle Needle Valve	
	11	**P-15481**	Spring—Idle Needle Valve	
	12	**P-19442**	Metering Jet **054″**	**(VAR)**
	13	**382041**	Main Discharge Jet **No 28-36**	**(NOT VAR)**
	14	**P-22081**	Float with Lever	
	15	**P-10666**	Gasket—Float Needle Valve Seat	
	16	**P-24624**	Gasket—Air Horn	
	17	**P-24037**	Gasket—Main Body	
	18	**P-24917**	Idle Tube	
	19	**P-23902**	Plug—Main Discharge Jet	
	21	**P-3157**	Lockwasher—Main Body Attach Screw	
	22	**P-18772**	Lead Ball	
	23	**P-23272**	Fulcrum Pin—Float Lever	
	25	**P-3199**	Screw—Air Horn Attaching	
	26	**P-1791**	Lockwasher—Air Horn Attaching Screw	
	27	**P-22025**	Screw—Main Body Attaching	
	28	**P-15456**	Screw—Throttle Stop	
	29	**P-15831**	Spring—Throttle Stop Screw	
	30	**P-24234**	Throttle Lever and Stem	
	31	**P-24312**	Throttle Valve	
	32	**P-4522**	Screw—Throttle Valve Attaching	
	34	**P-23269**	Plug—Check Valve	
	40	**P-22573**	Screw—Choke Valve Attach	
	41	**P-24046**	Choke Valve	
	42	**P-24077**	Choke Stem and Lever	
	43	**P-24709**	Assy —Air Horn	
	44	**P-24915**	Assy —Main Body **1-3/32″** Vent **No. 65** H S Bleed **No 70** Pump Disch **No 68** Idle Air Bleed	
	45	**P-24919**	Assy —Throttle Body **No 58-66** Idle Disch Holes **No 60** Spark Hole	
	46	**P-21774**	Pump Lever	
	47	**P-24042**	Pump Rod	
	51	**P-19374**	Cotter Pin—Pump Link	
	52	**P-24041**	Link—Pump	
	53	**P-23621**	Lever—Fast Idle Cam	
	54	**P-23622**	Cam—Fast Idle	
	55	**P-2290**	Nut—Pump Lever	
	56	**112-S-22**	Cotter Pin—Fast Idle Rod	
	57	**P-16722**	Union Elbow	
	58	**P-24060**	Rod—Fast Idle	
	59	**P-24908**	Spacer—Main Body	
	60	**P-23273**	Spring—Float Fulcrum Pin	
	61	**P-7170**	Cotter Pin—Fast Idle Cam Lever	
	62	**P-23901**	Bleeder—Hi Speed **No. 65**	**(NOT VAR)**
	63	**P-15459**	Plug—Drive ¼″	
	64	**P-24045**	Vent Tube	
	65	**P-21338**	Cotter Pin—Pump Stem	
	66	**P-23271**	Clip—Spring—Pump Strainer Screen	
	67	**P-23270**	Screen—Pump Strainer	
	68	**P-24052**	Lever—Fast Idle	
	69	**P-16571**	Nut—Fast Idle Lever Attach	
	70	**P-6668**	Lockwasher—Fast Idle Lever Attach Nut	
	71	**P-24081**	Manual Choke Lever	
		P-12867	Screw—Choke Wire Clamp	
	72	**P-24080**	Spring—Manual Choke Lever	
	73	**P-24086**	Choke Tube Holder	
	74	**P-24087**	Screw—Choke Tube Holder Attach	
	75	**P-2714**	Street Elbow—Vac Spark	
	76	**P-24314**	Gasket—Flange	

BENDIX PRODUCTS DIVISION
SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

Printed in U S A

STROMBERG "AAO-161" CARBURETOR

STROMBERG NO A-18611 (CODE NO 6-85) STUDEBAKER SYMBOL NO 198493

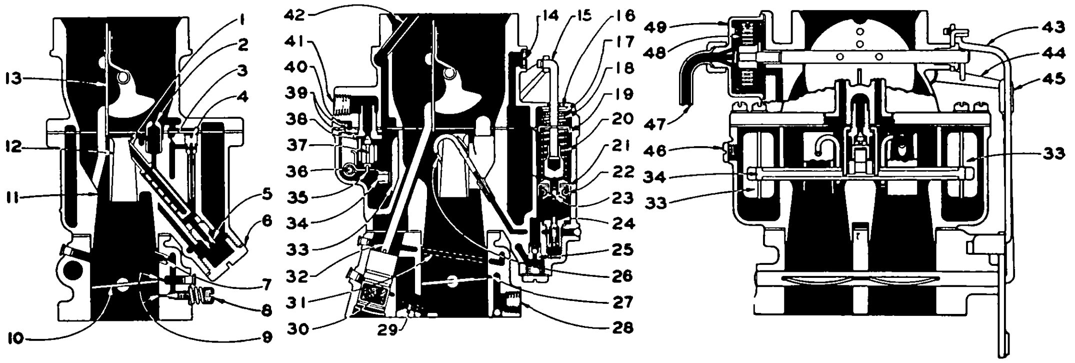
SIZE 1′ DUAL D D 4-HOLE FLANGE **THIS AS A UNIT WILL REPLACE 1938 AND 1939 MODELS**

1940
Studebaker

MODEL
PRESIDENT 6C
3-1/16″ x 4-1/4″—8 cyl.

PARTS ILLUSTRATED

1	Main Discharge Jet
2	High Speed Bleeder
3	Idle Air Bleeder
4	Idle Tube
5	Main Metering Jet
6	Main Discharge Jet Plug
7	Secondary Idle Air Bleeder
8	Idle Needle Valve
9	Idle Discharge Holes
10	Throttle Valve
11	Primary Venturi
12	Auxiliary Venturi
13	Choke Valve
14	Float Chamber Vent Screw
15	Pump Piston Link
16	Felt Dust Washer
17	Retainer Washer
18	Dust Washer Spring
19	Spring Ret Washer
20	Pump Dur Spring
21	Pump Piston
22	Piston Exp Spring
23	Pump Relief Valve
24	Power By Pass Jet
25	Pump Inlet Check Valve
26	Pump Discharge Nozzle
27	Vacuum Spark Hole
28	Vacuum Spark Conn
29	Vacuum Channel
30	Vacuum Piston
31	Fast Idle Channel
32	Vacuum Piston Link
33	Float
34	Float Lever
35	Float Needle Valve Clip
36	Float Fulcrum Pin
37	Float Needle Valve
38	Float Needle Valve Seat
39	Float Hanger Gaskets
40	Float Hanger
41	Gas Line Conn
42	Float Cham Bal Tube
33	Float
34	Float Lever
43	Choke Valve Release Rod
44	Pump Fulcrum Arm
45	Pump Rod
46	Fuel Level Sight Plug
47	Exhaust Heat Tube
48	Automatic Choke Thermostat
49	Thermostat Housing



Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **5/8″** below top surface of float chamber (without gasket) at 3 lbs pressure, or level with bottom of the level sight hole To correct fuel level, hold air horn in inverted position Place **Tool T-24971** on gasket Top of floats should be level with tops of vertical guides, which will give approximate fuel level, change if necessary Sides of floats should be tangent to guides of tool without drag

MAIN METERING SYSTEM—Venturi **1-1/32″**; Main Discharge Jet **No. 36** P 23485 (**Tool T-24967**); High Speed Bleeder **No. 60** P 22369 Main Metering Jet **.047″** P-22660 (**Tool T-24924**); Use **Tool T-19099** Screw Driver for removing main jet plug Main Metering system controls the flow of fuel up to approximately 65 to 70 M P H

POWER SYSTEM—Combination Power and Pump By-Pass Jet **No. 65** P-20467 The Power Jet is brought into action at approximately 65 to 70 M P H Pump piston to rest on seat of by pass jet (less over-travel) with throttle valve opened **23/64″** + — **1/64″** drill (minimum pump setting) (measure with shank end of **23/64″** drill) bend pump lever fulcrum arm at ball joint end to obtain correct setting

ACCELERATION—Pump Discharge Nozzles **No. 65** in body, Pump capacity **6** to **10** c c per 10 fast strokes, and **16 to 20** c c per 10 slow strokes Use **Tool T-24972.** Pump action takes place during acceleration period only

IDLE SYSTEM—Idle Discharge holes **Nos. 54-60.** With throttle valve fully closed and **No. 60** drill in idle hole, edge of valve is located **.020″** + — **.004″** from **No. 60** drill, Idle Air Bleed **No. 66** in main body, **No. 50** in throttle body, Idle Tube **No. 68** P 21962 **Adjustment:** Adjust to smooth running, one barrel at a time, OUT to make richer and IN to make leaner, throttle at 7 to 8 M P H

VACUUM SPARK CONTROL—With throttle fully closed and **No. 50** drill in spark hole, edge of valve is located **Flush to .006″ above** from **No. 50** drill (**2 No. 50** spark holes)

FLANGE GASKET—P-18165

SPECIAL TOOLS REQUIRED—Use Studebaker complete Tool Kit **SER-386**; T-24971 Float Gauge T 24967 Main Discharge Jet Remover, T-24924 Main Metering Jet Wrench, T-24970 By-Pass Jet and Check Valve Tester, T 24972 Pump Capacity Burrette Gauge T-24968 Handle T-19099 Main Jet Plug Screw Driver, T 20140 Float Needle Valve Seat Socket Wrench

MOTOR TUNE-UP DATA

SPARK PLUG—.025″.
Clean and adjust at regular intervals.

DISTRIBUTOR—.018″ to .024″. Breaker gap set .018″ to .024″. Replace if necessary.

VALVES—Intake: .016″; Exhaust: .016″. Engine cold.

IGNITION TIMING—Stationary contacts to open for No. 1 cylinder when top dead center "UDC-1-8" mark is in line with pointer.

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

Printed in U S A

AUTOMATIC CHOKE CONTROL

GENERAL DESCRIPTION

In the Stromberg Model "AAO 161" Carburetor the automatic choke control is built integral with the carburetor The principles of operation are the same as previously used on the Studebaker President cars, namely manifold vacuum, heat on a thermostat spring and offset choke valve in the carburetor The vacuum piston which is used to open the choke valve, when the engine begins to fire, is connected to the choke valve, while the thermostat spring is connected to the choke stem The fast idle feature is accomplished by internal channels which feed a mixture of fuel and air below the throttle during the cranking period and keeps the engine from stalling while warming up This design eliminates all external parts and adjustments used in the previous method of fast idle Figs 1-4 show the automatic choke control and fast idle in the various stages of operation

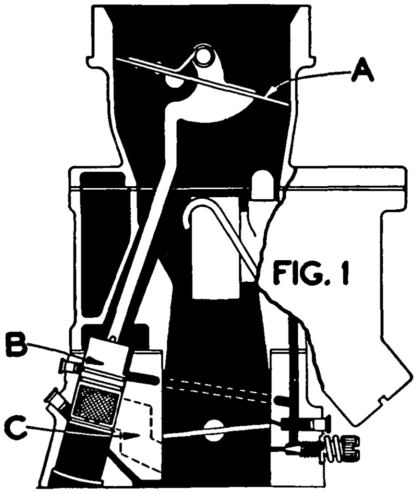


FIG. 1

Operation and Adjustments

CHOKE CLOSED—FAST IDLE—COLD ENGINE

When the engine becomes cold, the thermostat spring also cools and gradually gains sufficient tension to close the choke valve "A" With this action, vacuum piston "B" being directly connected to the choke valve is raised to its upper position Fuel and air are taken through the vacuum piston and delivered below the throttle valve through passage "C" While the engine is being cranked, the choke valve and vacuum piston remain in the position shown in Fig 1

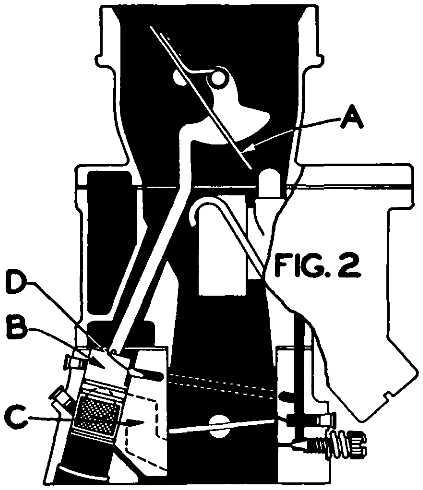


FIG. 2

CHOKE PARTIALLY OPEN—ENGINE FIRING—FAST IDLE

When the engine begins to fire and manifold vacuum is created vacuum piston "B" is pulled down and opens choke valve "A" to admit sufficient air for a running mixture To accomplish the fast idle feature, air is drawn through the vacuum piston "B" and channel "C" which is equivalent to increasing the opening of the throttle valve The flow of air through the vacuum piston restricts the amount of air that is admitted into channel "D" and enriches the idle mixture to compensate for the additional air entering below the throttle valve

NOTE: When servicing the carburetor it is necessary that the vacuum piston is assembled in the throttle valve body with the slot in the side of the piston coinciding with channel "D."

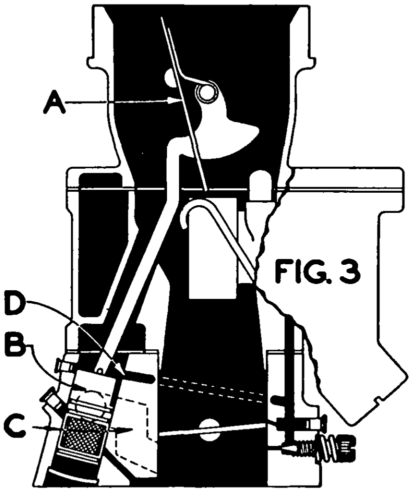


FIG. 3

ENGINE WARM—SLOW IDLE

The choke valve in the carburetor being off center continues to open by the force of the inrushing air. The amount of opening is controlled by the tension of the thermostat spring, until the thermostat absorbs sufficient heat so that it will not offer any resistance. As the choke valve "A" opens, it allows the vacuum piston "B" to lower until the piston closes passage "C," cutting off the supply of air through the vacuum piston for fast idle and allowing air to bleed into channel 'D' for the idle system.

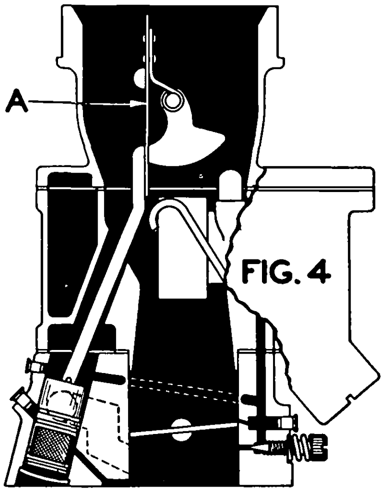


FIG. 4

CHOKE WIDE OPEN—SLOW IDLE

When engine reaches normal operating temperature, the choke valve "A" will be in wide open position and engine at slow idle. Fig. 4. The throttle stop screw should be adjusted at 6-8 M. P. H. This is the only adjustment necessary.

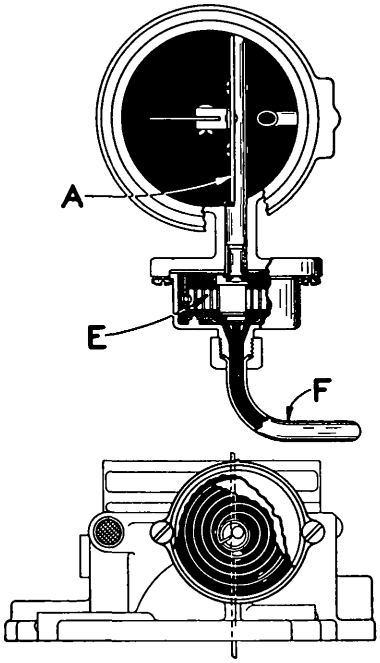
DEFLOODER ADJUSTMENT

With throttle held in wide open position, choke valve should be open so that a **7/32″** drill can be placed between choke valve and air horn. The amount of opening can be changed by bending the choke stem pin or deflooder rod.

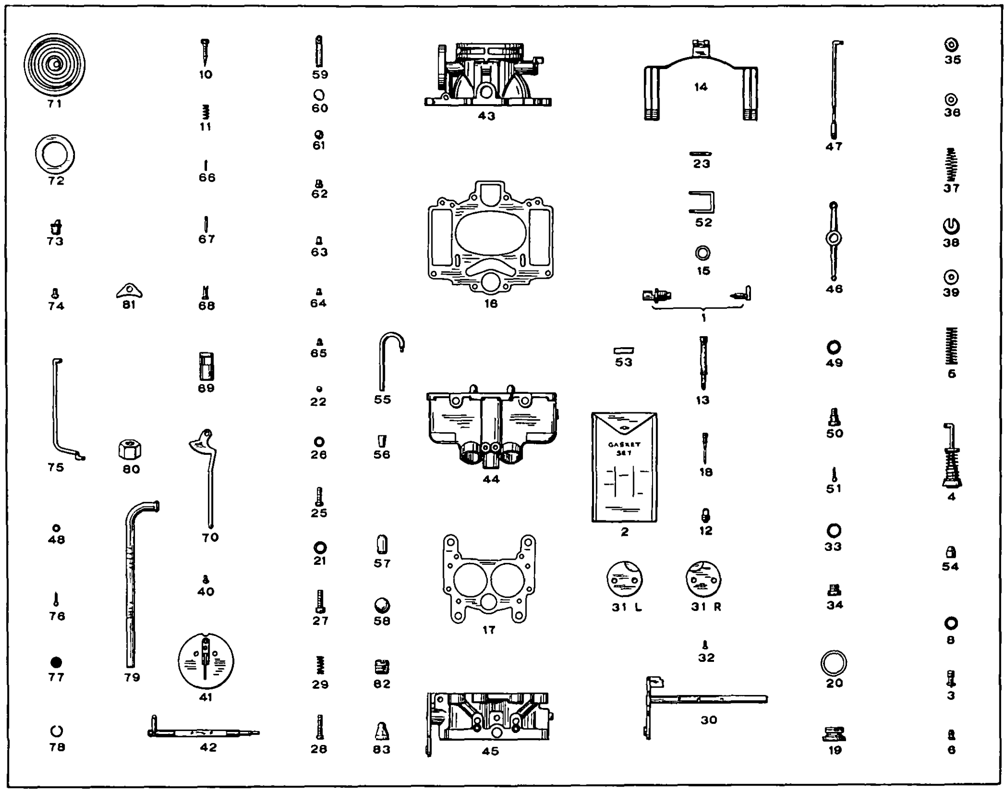
THERMOSTAT ADJUSTMENT

The thermostat spring is set at the factory to give satisfactory performance under normal conditions. To compensate for the wide range in volatility of the various brands of gasoline, three markings are incorporated on the outside of the thermostat cover, namely H, M and R. The standard setting at the factory is with "R" coinciding with the highest projection on the thermostat housing flange and is for use with regular or commercial brands of gasoline. If by having the cover set at "R" the engine tends to load up or over choke, the cover should be moved to "M" which provides a leaner setting. Where high volatile fuels are continuously used, it may be desirable to set the cover plate on "H". The thermostat that is originally installed need not be changed unless it is tampered with. In such cases the entire assembly should be replaced.

For checking the thermostat, it can be done by submerging the thermostat assembly in water of 70° temperature for approximately 10 minutes so that it can assume a natural position. The air horn should be cooled or warmed to as near 70° as possible. Place the thermostat assembly onto the housing and rotate it until the choke valve just closes. In this position "R" on the cover should **approximately** coincide with the projection on the housing flange.



STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No.	Part No.	Part Name
	1	**P-22499**	Float Needle Valve Clip and Seat 101 **(NOT VAR)**
	2	**J-5318-G**	Complete Gasket Set
	3	**P-20467**	Power By Pass Jet No 65 **(NOT VAR)**
	4	**P-23487**	Pump Piston Link and Spring (Complete)
	5	**P-19458**	Spring—Pump Duration
	6	**P-18144**	Pump Inlet Check Valve
	8	**P-19448**	Gasket—By Pass Jet
	10	**P-15478**	Idle Needle Valve
	11	**P-18710**	Spring—Idle Needle Valve
	12	**P-22660**	Metering Jet **047"** **(VAR)**
	13	**P-23485**	Main Discharge Jet No 36 **(NOT VAR)**
	14	**P-22433**	Float with Lever
	15	**P-2885**	Gasket—Float Needle Valve Seat
	16	**P-22885**	Gasket—Air Horn
	17	**P-23494**	Gasket—Main Body
	18	**P-21962**	Idle Tube
	19	**P-21767**	Plug—Main Discharge Jet
	20	**P-22851**	Gasket—Main Discharge Jet Plug
	21	**P-3157**	Lockwasher—Main Body Attach Screw
	22	**P-18772**	Lead Ball
	23	**P-22439**	Fulcrum Pin—Float Lever
	25	**P-2475**	Screw—Air Horn Attaching
	26	**P-6668**	Lockwasher—Air Horn Attaching Screw
	27	**P-709**	Screw—Main Body Attaching
	28	**P-16586**	Screw—Throttle Stop
	29	**P-15831**	Spring—Throttle Stop Screw
	30	**P-23496**	Throttle Lever and Stem
	31 R	**P-22806**	Throttle Valve (5°) (Right) **(NOT VAR)**
	31-L	**P-23504**	Throttle Valve (5°) (Left) **(NOT VAR)**
	32	**P-20904**	Screw—Throttle Valve Attaching
	33	**P-7338**	Gasket—Check Valve Plug
	34	**P-19716**	Plug—Check Valve
	35	**P-17380**	Washer—Felt
	36	**P-17060**	Washer—Splash—Pump Link
	37	**P-22643**	Spring—Packing Retainer
	38	**P-22045**	Washer—Cup
	39	**P-22046**	Washer—Spring Retainer
	40	**P-22573**	Screw—Choke Valve Attach
	41	**P-23451**	Choke Valve
	42	**P-23453**	Choke Stem and Lever
	43	**P-24804**	Assy —Air Horn
	44	**P-24800**	Assy —Main Body **1-1/32"** Venturi, **No. 60** H S Bleeder **No. 66** Idle Air Bleed, **No. 65** Pump Disch Tubes **(VAR.)**
	45	**P-24801**	Assy —Throttle Body **No. 54-60**, Idle Disch Holes **No 50** Idle Air Bleed **(VAR.)**
	46	**P-22430**	Pump Lever
	47	**P-23491**	Pump Rod
	48	**P-9394**	Washer—Pump Rod
	49	**P-19820**	Spring—Washer—Pump Lever Fulcrum Screw
	50	**P-19433**	Fulcrum Screw—Pump Lever
	51	**P-7170**	Cotter Pin—Pump Link and Pump Rod
	52	**P-22441**	Float Hanger
	53	**P-22523**	Clip—Float Needle Valve
	54	**P-24806**	Reducer—Vacuum Channel
	55	**P-21561**	Pump Discharge Tube No 65 **(NOT VAR)**
	56	**P-19430**	Wedge—Pump Discharge Tube
	57	**P-22369**	High Speed Bleeder **No. 60** **(VAR)**
	58	**P-8495**	Expansion Plug—Main Body
	59	**P-23458**	Vent Tube
	60	**P-23507**	Plug—Fast Idle By Pass Chan Expansion
	61	**P-17953**	Plug—Fast Idle Vacuum Chan Drive
	62	**P-6406**	Plug—Float Level Sight
	63	**P-21949**	Plug—Vac Spark Control Chan (Side Away)
	64	**P-20884**	Plug—Vac Spark Control Chan (Side Toward)
	65	**P-15458**	Plug—Channel Drive No 10
	66	**P-17623**	Pin—Thermostat Drive
	67	**P-22642**	Pin—Choke Valve
	68	**P-22579**	Pin—Fast Idle Link Fulcrum
	69	**P-23463**	Vacuum Piston
	70	**P-23457**	Link—Fast Idle Piston
	71	**P-24807**	Thermostat Unit
	72	**P-23597**	Gasket—Thermostat Housing
	73	**P-23471**	Spool—Thermostat
	74	**P-21596**	Screw—Thermostat Attach
	75	**P-23495**	Deflooder Rod
	76	**112-S-1**	Cotter Pin—Deflooder Rod
	77	**P-23270**	Vent Strainer
	78	**P-23271**	Spring Clip—Vent Strainer
	79	**P-23472**	Heat Tube
	80	**P-23596**	Nut—Heat Tube Connecting
	81	**P-24179**	Washer—Thermostat Attach Screw
	82	**P-6387**	Plug—Vacuum Piston Channel
	83	**P-23858**	Strainer—Pump Check Valve

BENDIX PRODUCTS DIVISION
SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

STROMBERG "AAO-161" CARBURETOR

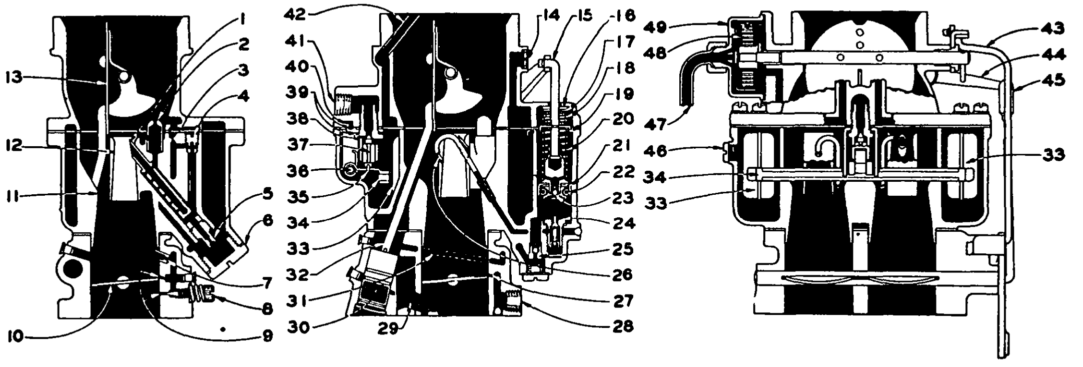
1938-39
Studebaker
MODEL
PRESIDENT 4C
3-1/16"x4-1/4"—8 cyl.

STROMBERG NO. A-18371 (CODE NO. 6-70A) STUDEBAKER SYMBOL 192467

SIZE: 1⅛" DUAL D. D. 4-HOLE FLANGE

PARTS ILLUSTRATED

1 Main Discharge Jet
2. High Speed Bleeder
3 Idle Air Bleeder
4 Idle Tube
5 Main Metering Jet
6 Main Discharge Jet Plug
7 Secondary Idle Air Bleeder
8 Idle Needle Valve
9 Idle Discharge Holes
10 Throttle Valve
11 Primary Venturi
12 Auxiliary Venturi
13 Choke Valve
14 Float Chamber Vent Screw
15 Pump Piston Link
16 Felt Dust Washer
17 Retainer Washer
18 Dust Washer Spring
19 Spring Ret Washer
20 Pump Dur Spring
21 Pump Piston
22. Piston Exp Spring
23. Pump Relief Valve
24 Power By-Pass Jet
25 Pump Inlet Choke Valve
26 Pump Discharge Nozzle
27. Vacuum Spark Hole
28. Vacuum Spark Conn
29 Vacuum Channel
30 Vacuum Piston
31 Fast Idle Channel
32 Vacuum Piston Link
33 Float
34 Float Lever
35 Float Needle Valve Clip
36 Float Fulcrum Pin
37 Float Needle Valve
38 Float Needle Valve Seat
39 Float Hanger Gaskets
40 Float Hanger
41 Gas Line Conn
42 Float Cham Bal Tube
33 Float
34 Float Lever
43 Choke Valve Release Rod
44 Pump Fulcrum Arm
45 Pump Rod
46 Fuel Lever Sight Plug
47 Exhaust Heat Tube
48 Automatic Choke Thermostat
49 Thermostat Housing



Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **5/8"** below top surface of float chamber (without gasket) at 3 lbs. pressure, or level with bottom of the level sight hole. To correct fuel level, hold air horn in inverted position. Place **Tool T-24971** on gasket. Top of floats should be level with tops of vertical guides, which will give approximate fuel level; change if necessary. Sides of floats should be tangent to guides of tool without drag.

MAIN METERING SYSTEM—Venturi **1-1/32"**; Main Discharge Jet **No. 36** P-23485 **(Tool T-24967)**; High Speed Bleeder **No. 60** P-22369. Main Metering Jet **.047"** P-22660 **(Tool T-24924)**; Use **Tool T-19099** Screw Driver for removing main jet plug. Main metering system controls the flow of fuel up to approximately 65 to 70 M. P. H.

POWER SYSTEM—Combination Power and Pump By-Pass Jet **No. 65** P-20467. The Power Jet is brought into action at approximately 65 to 70 M. P. H. Pump piston to rest on seat of by-pass jet (less over-travel) with throttle valve opened **23/64" + — 1/64"** drill (minimum pump setting) (measure with shank end of **23/64"** drill); bend pump lever fulcrum arm at ball joint end to obtain correct setting.

ACCELERATION—Pump Discharge Nozzles **No. 65** in body; Pump capacity **6** to **10** c.c. per 10 fast strokes, and **16 to 20** c.c. per 10 slow strokes. Use **To l T-24972.** Pump action takes place during acceleration period only.

IDLE SYSTEM—Idle Discharge holes **Nos. 54-60.** With throttle valve fully closed and **No. 60** drill in idle hole, edge of valve is located **.020" + — .004"** from **No. 60** drill; Idle Air Bleed **No. 66** in main body; **No. 50** in throttle body; Idle Tube **No. 68** P-21962. **Adjustment:** Adjust to smooth running, one barrel at a time, OUT to make richer and IN to make leaner; throttle at 7 to 8 M. P. H.

VACUUM SPARK CONTROL—With throttle fully closed and **No. 50** drill in spark hole, edge of valve is located **Flush to .006" above** from **No. 50** drill. **(2 No. 50** spark holes).

FLANGE GASKET—P-18165.

SPECIAL TOOLS REQUIRED—Use Studebaker complete Tool Kit **SER-386**; T-24971 Float Gauge; T-24967 Main Discharge Jet Remover; T-24924 Main Metering Jet Wrench; T-24970 By-Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burrette Gauge; T-24968 Handle; T-19099 Main Jet Plug Screw Driver; T-20140 Float Needle Valve Seat Socket Wrench.

MOTOR TUNE-UP DATA

SPARK PLUG—.025".
Clean and adjust at regular intervals.

DISTRIBUTOR—.018" to .024".
Breaker gap set .018" to .024".
Replace if necessary.

VALVES—Intake: .016".
Exhaust: .016". **Engine cold.**

IGNITION TIMING—Stationary contacts to open for No. 1 cylinder when top dead center "UDC-1-8" mark is in line with pointer.

SERVICE RECOMMENDATION — Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

AUTOMATIC CHOKE CONTROL

GENERAL DESCRIPTION

In the Stromberg Model "AAO-161" Carburetor the automatic choke control is built integral with the carburetor. The principles of operation are the same as previously used on the Studebaker President cars, *namely: manifold vacuum, heat on a thermostat spring and* offset choke valve in the carburetor. The vacuum piston which is used to open the choke valve, when the engine begins to fire, is connected to the choke valve, while the thermostat spring is connected to the choke stem. The fast idle feature is accomplished by internal channels which feed a mixture of fuel and air below the throttle during the cranking period and keeps the engine from stalling while *warming up.* This design eliminates all external parts and adjustments used in the previous method of fast idle. Figs. 1-4 show the automatic choke control and fast idle in the various stages of operation.

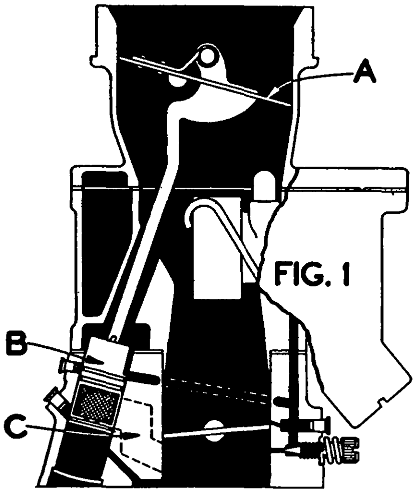


FIG. 1

Operation and Adjustments

CHOKE CLOSED — FAST IDLE — COLD ENGINE

When the engine becomes cold, the thermostat spring also cools and gradually gains sufficient tension to close the choke valve "A". With this action, vacuum piston "B" being directly connected to the choke valve is raised to its upper position. Fuel and air are taken through the vacuum piston and delivered below the throttle valve through passage "C". While the engine is being cranked, the choke valve and vacuum piston remain in the position shown in Fig. 1.

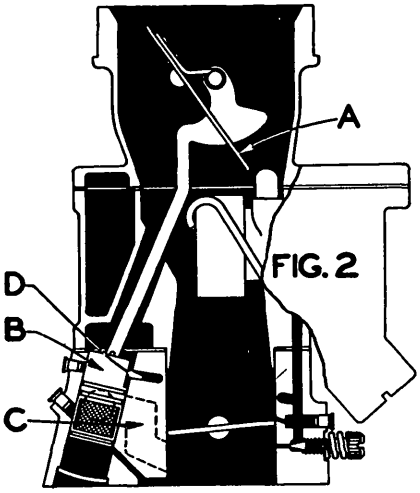


FIG. 2

CHOKE PARTIALLY OPEN — ENGINE FIRING — FAST IDLE

When the engine begins to fire and manifold vacuum is created, vacuum piston "B" is pulled down and opens choke valve "A" to admit sufficient air for a running mixture. To accomplish the fast idle feature, air is drawn through the vacuum piston "B" and channel "C" which is equivalent to increasing the opening of the throttle valve. The flow of air through the vacuum piston restricts the amount of air that is admitted into channel "D" and enriches the idle mixture to compensate for the additional air entering below the throttle valve.

NOTE: When servicing the carburetor it is necessary that the vacuum piston is assembled in the throttle valve body with the slot in the side of the pist n coinciding with channel "D".

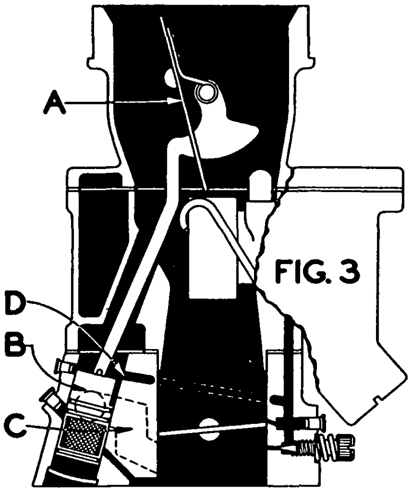


FIG. 3

ENGINE WARM — SLOW IDLE

The choke valve in the carburetor being off center continues to open by the force of the inrushing air The amount of opening is controlled by the tension of the thermostat spring, until the thermostat absorbs sufficient heat so that it will not offer any resistance As the choke valve "A" opens, it allows the vacuum piston "B" to lower until the piston closes passage "C", cutting off the supply of air through the vacuum piston for fast idle and allowing air to bleed into channel "D" for the idle system

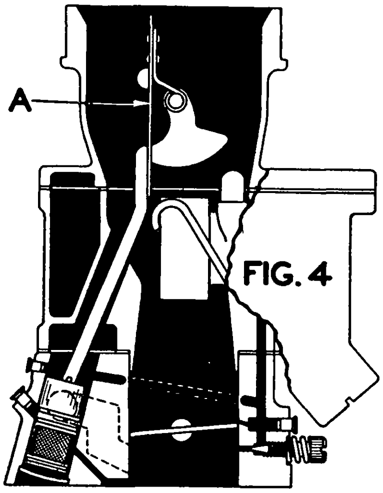


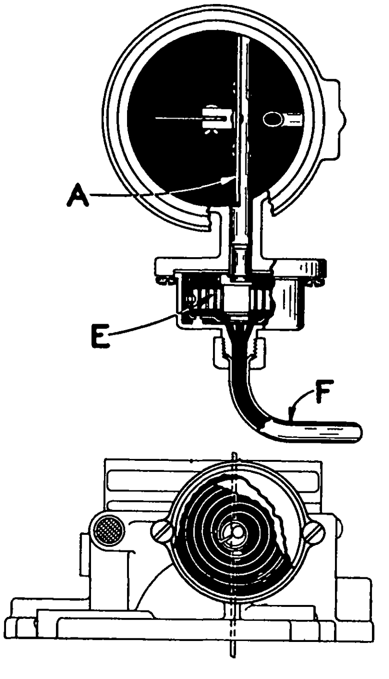
FIG. 4

CHOKE WIDE OPEN — SLOW IDLE

When engine reaches normal operating temperature, the choke valve "A" will be in wide open position and engine at slow idle Fig 4 The throttle stop screw should be adjusted at 6-8 M. P H This is the only adjustment necessary.

DEFLOODER ADJUSTMENT

With throttle held in wide open position, choke valve should be open so that a **7/32"** drill can be placed between choke valve and air horn The amount of opening can be changed by bending the choke stem pin or deflooder rod.

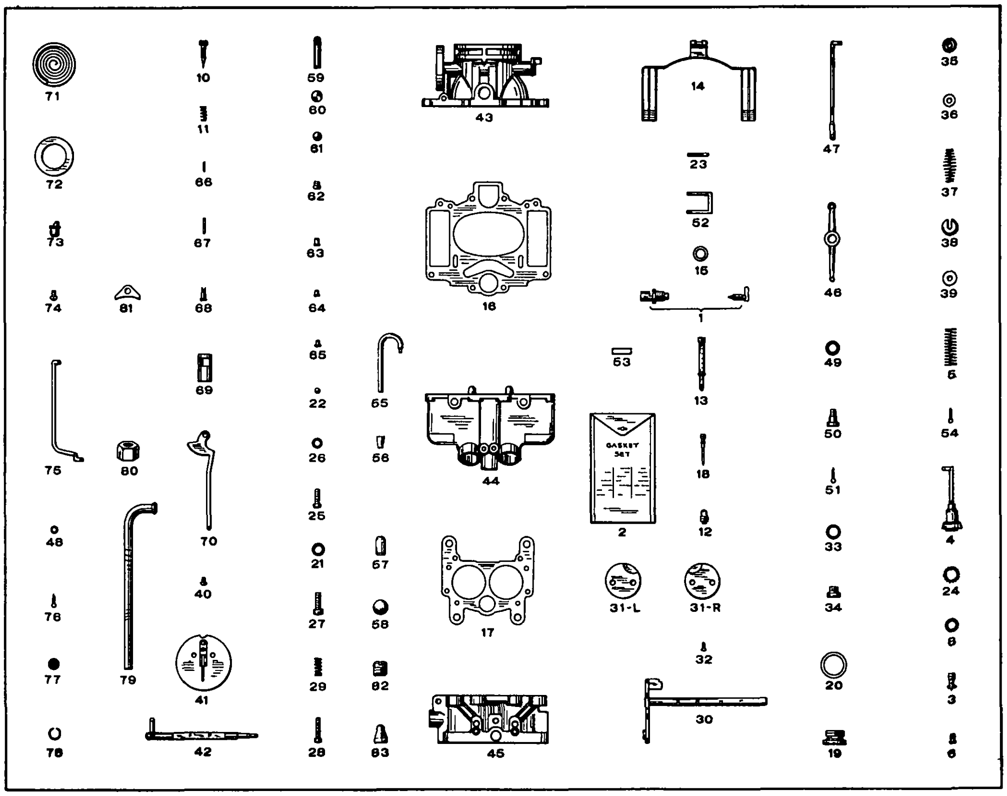


THERMOSTAT ADJUSTMENT

The thermostat spring is set at the factory to give satisfactory performance under normal conditions To compensate for the wide range in volatility of the various brands of gasoline, three markings are incorporated on the outside of the thermostat cover, namely H, M and R The standard setting at the factory is with "R" coinciding with the highest projection on the thermostat housing flange and is for use with regular or commercial brands of gasoline If by having the cover set at "R" the engine tends to load up or over choke, the cover should be moved to "M" which provides a leaner setting Where high volatile fuels are continuously used, it may be desirable to set the cover plate on "H" The thermostat that is originally installed need not be changed unless it is tampered with. In such cases the entire assembly should be replaced

For checking the thermostat, it can be done by submerging the thermostat assembly in water of 70° temperature for approximately 10 minutes so that it can assume a natural position. The air horn should be cooled or warmed to as near 70° as possible Place the thermostat assembly onto the housing and rotate it until the choke valve just closes In this position "R" on the cover should **approximately** coincide with the projection on the housing flange.

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No.	Part No.	Part Name
	1	**P-22499**	Float Needle Valve and seat— 101 **(NOT VAR.)**
	2	**J-5318-G**	Complete Gasket Set
	3	**P-20467**	Power By Pass Jet—No 65 **(NOT VAR.)**
	4	**P-23488**	Pump Piston and Link **(Includes P-16960)**
	4-A	**P-23487**	Pump Piston Link and Spring (Complete)
	5	**P-19458**	Spring--Pump Duration
	6	**P-18144**	Pump Inlet Check Valve
	8	**P-19448**	Gasket—By Pass Jet
	10	**P-15478**	Idle Needle Valve
	11	**P-18710**	Spring—Idle Needle Valve
	12	**P-22660**	Metering Jet—**.047"** **(VAR.)**
	13	**P-23485**	Main Discharge Jet—No 36 **(NOT VAR.)**
	14	**P-22433**	Float With Lever
	15	**P-2885**	Gasket—Float Needle Valve Seat
	16	**P-22885**	Gasket—Air Horn
	17	**P-23494**	Gasket—Main Body
	18	**P-21962**	Idle Tube
	19	**P-21767**	Plug--Main Discharge Jet
	20	**P-22851**	Gasket—Main Discharge Jet Plug
	21	**P-3157**	Lockwasher--Main Body Attaching Screw
	22	**P-18772**	Lead Ball
	23	**P-22439**	Fulcrum Pin—Float Lever
	24	**P-16960**	Spring—Pump Piston Leather Expansion
	25	**P-2475**	Screw—Air Horn Attaching
	26	**P-6668**	Lockwasher--Air Horn Attaching Screw
	27	**P-709**	Screw—Main Body Attaching
	28	**P-16586**	Screw—Throttle Stop
	29	**P-15831**	Spring—Throttle Stop Screw
	30	**P-23496**	Throttle Lever and Stem
	31-R	**P-22806**	Throttle Valve (5°) (Right) **(NOT VAR.)**
	31-L	**P-23504**	Throttle Valve (5°) (Left) **(NOT VAR.)**
	32	P-20904	Screw—Throttle Valve Attaching
	33	**P-7338**	Gasket—Check Valve Plug
	34	**P-19716**	Plug—Check Valve
	35	**P-17380**	Washer—Felt
	36	**P-17060**	Washer—Splash—Pump Link
	37	**P-22643**	Spring—Packing Retainer
	38	**P-22045**	Washer—Cup
	39	**P-22046**	Washer—Spring Retainer
	40	**P-22573**	Screw—Choke Valve Attaching
	41	**P-23451**	Choke Valve and Bracket
	42	**P-23453**	Choke Stem and Pin
	43	**P-23448-T**	Air Horn
		P-23455	Bushing—Choke Stem
		P-17996	Bushing—Loose Lever
		P-23456	Loose Lever
	43-A	**P-23450**	Assembly—Air Horn and Valve
	44	**P-23483**	Assembly Main Body **1-1/32"** Venturi **No. 60** H S Bleeder and Pump Discharge Tube **No. 66** Idle Air Bleed **(VAR.)**
	45	**P-23839**	Throttle Body **No. 54-60** Idle Discharge Holes—**No. 38-No. 50** Idle Air Bleeder **(VAR.)**
	46	**P-22430**	Pump Lever
	47	**P-23491**	Pump Rod
	48	**P-9394**	Washer - Pump Rod
	49	**P-19820**	Spring Washer—Pump Lever Fulcrum Screw
	50	**P-19433**	Fulcrum Screw—Pump Lever
	51	**P-7170**	Cotter Pin -Pump Rod
	52	**P-22441**	Float Hanger
	53	**P 22523**	Clip -Float Needle Valve
	54	**P-7170**	Cotter Pin—Pump Link
	55	**P 21561**	Pump Discharge Tube No 65 **(NOT VAR.)**
	56	**P-19430**	Wedge—Pump Discharge Tube
	57	**P-22369**	High Speed Bleeder —**No. 60** **(VAR.)**
	58	**P-8495**	Expansion Plug
	59	**P-23458**	Vent Tube
	60	**P-23507**	Plug- Fast Idle By Pass Channel Expansion
	61	**P-17953**	Plug—Fast Idle Vacuum Channel Drive 1/8"
	62	**P-6406**	Plug—Full Level Sight
	63	**P-21949**	Plug—Vacuum Spark Control Channel 1/4' (Side Away)
	64	**P-20884**	Plug—Vacuum Spark Control Channel ¼" (Side Away)
	65	**P-15458**	Plug—Channel Drive No 10
	66	**P-17623**	Pin —Thermostat Drive
	67	**P-22642**	Pin -Choke Valve
	68	**P-22579**	Pin—Fast Idle Link Fulcrum
	69	**P-23463**	Vacuum Piston
	70	**P-23457**	Link--Fast Idle Piston
	71	**P-23459**	Thermostat Unit (Complete)
		P-23462	Thermostat
		P-23599	Rivet—Thermostat
		P-23460-T	Housing—Thermostat
		P-23598	Pin—Shoulder
		P-23600	Cup—Thermostat
	72	**P-23597**	Gasket--Thermostat Housing
	73	**P-23471-T**	Spool—Thermostat
	74	**P-21596**	Screw—Thermostat Attaching
	75	**P-23495**	Rod—Deflooder
	76	**112-S-1**	Cotter Pin—Deflooder Rod
	77	**P-23270**	Vent Strainer
	78	**P-23271**	Spring Clip—Vent Strainer
	79	**P-23472**	Heat Tube
	80	**P-23596**	Nut—Heat Tube Connecting
	81	**P-24179**	Washer—Thermostat Attaching Screw
	82	**P-6387**	Plug—Vacuum Piston Channel No 10
	83	**P-23858**	Strainer—Pump Check Valve

NOTE—For parts marked (VAR.) size must be specified when ordering.

BENDIX PRODUCTS DIVISION
SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

STROMBERG "BXO-26" CARBURETOR

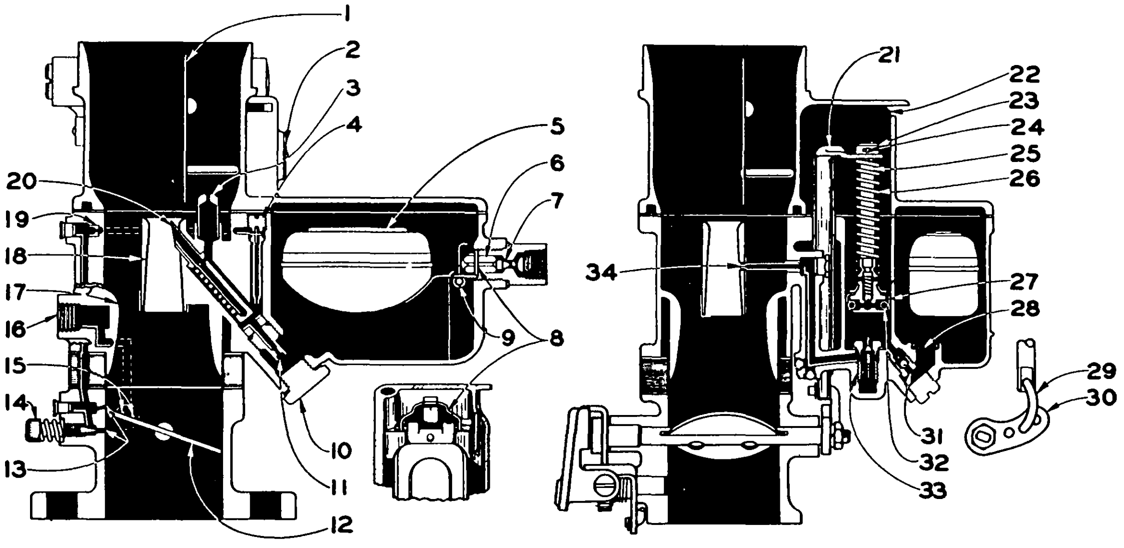
1938-39
Studebaker
MODEL
1938 COMM. 8A
AND STUDE. SIX 7A
1939 COMM. 9A
3-5/16"x4-3/8"—6 cyl.

STROMBERG NO. A-18652 (CODE NO. 6-69A) STUDEBAKER SYMBOL 192466

SIZE: 1⅜" D. D. S.A.E. 2-11/16" FLANGE CENTERS

PARTS ILLUSTRATED

1. Choke Valve
2. Code Plate
3. High Speed Bleeder
4. Idle Tube
5. Float
6. Float Needle Valve
7. Float Needle Valve Seat
8. Float Fulcrum Pin Clip
9. Float Fulcrum Pin
10. Main Discharge Jet Plug
11. Main Metering Jet
12. Throttle Valve
13. Idle Discharge Holes
14. Idle Needle Valve
15. Vacuum Spark Holes
16. Vacuum Spark Connection
17. Primary Venturi
18. Auxiliary Venturi
19. Idle Air Bleeder
20. Main Discharge Jet
21. Pump Rod
22. Float Chamber Vent
23. Power Jet Adj Nut
24. Cotter Pin
25. Piston Connecting Rod
26. Pump Duration Spring
27. Pump Piston
28. Pump Inlet Screen
29. Pump Lever Link
30. Pump Lever
31. Pump Inlet Check Valve
32. Piston Exp Spring
33. Power By-Pass Jet
34. Pump Disch Nozzle



Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **5/8"** below top surface of float chamber (without gasket) at 3 lbs pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level).

MAIN METERING SYSTEM—Venturi **1-3/16"**; Main Discharge Jet **No. 28-36** P-23264 **(Tool T-24967)** High Speed Bleeder **No. 70** P-22369; Main Metering Jet **.059"** P-19442 **(Tool T-24924);** Use **Tool T-19099** Screw Driver for removing main jet plug. Main metering system controls the flow of fuel up to approximately 65 to 70 M. P. H.

POWER SYSTEM—Combination Power and Pump By-Pass Jet **2 No. 56** P 21776. The Power Jet is brought into action at approximately 65 to 70 M. P. H. Pump piston to rest on seat of by-pass jet (less over-travel) with throttle valve opened **27/64" + — 1/64"** drill (maximum pump setting) (measure with shank end of **27/64"** drill); adjust pump stem nut to obtain correct setting.

ACCELERATION—Pump Discharge Nozzle **No. 64** P-23262; Pump capacity **11** to **14** c.c. per 10 fast strokes, and **17** to **22** c.c. per 10 slow strokes with pump rod link set in middle setting. Use **Tool T-24972.** Pump action takes place during acceleration period only.

IDLE SYSTEM—Idle Discharge holes **Nos. 56-60.** With throttle valve fully closed and **No. 60** drill in idle hole, edge of valve is located **.010" + — .004"** from **No. 60** drill; Idle Air Bleed **No. 54** in main body P-20470; Idle Tube **No. 70** P-21778. **Adjustment:** Adjust to smooth running, OUT to make richer and IN to make leaner; throttle at 7 to 8 M. P. H.

VACUUM SPARK CONTROL—With throttle fully closed and **No. 56** drill in spark hole, edge of valve is located **Flush** from **No. 56** drill. **(2 No. 56** holes and **1 No. 60** hole below valve drilled at random.)

FLANGE GASKET—P-23444.

SPECIAL TOOLS REQUIRED—Use Studebaker complete Tool Kit **SER-386;** T-24733 Float Adjuster Wrench; T-24967 Main Discharge Jet Remover; T-24924 Main Metering Jet Wrench; T-24970 By-Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burrette Gauge, T-24968 Handle; T-19099 Main Jet Plug Screw Driver.

MOTOR TUNE-UP DATA

SPARK PLUG—.025".
Clean and adjust at regular intervals.

DISTRIBUTOR—.020".
Breaker gap set .020".
Replace if necessary.

VALVES—Intake: .016".
Exhaust: .016". ***Engine cold.***

IGNITION TIMING—Breaker contacts to open for No. 1 cylinder when the "IGN" mark on vibration damper is in line with pointer on timing gear cover.

SERVICE RECOMMENDATION — Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

Printed in U S A

AUTOMATIC CHOKE CONTROL

GENERAL DESCRIPTION

The Automatic Choke Control is built integral with the carburetor The principles of operation are the same as previously used, namely manifold vacuum heat on a thermostat spring and offset choke valve in the carburetor The vacuum piston and thermostat are directly connected to the carburetor choke valve and accurately control the opening and closing of the choke valve under varying operating temperatures A tube leading from the exhaust manifold to the thermostat chamber transmits heat to govern the tension of the thermostat spring A fast idle cam for the throttle screw prevents the engine from stalling during the warming up period

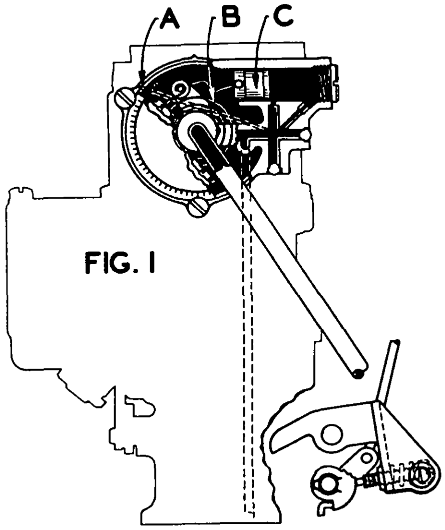


FIG. 1

Operation and Adjustments

CHOKE CLOSED — FAST IDLE

When starting a cold or warm engine it is necessary to depress the foot accelerator momentarily This allows the choke valve to close and the fast idle cam revolves under the stop screw for proper starting position Fig 1 shows the position of the mechanism after this has been done The choke valve A is held in closed position during the cranking period by the tension of the thermostat spring 'B

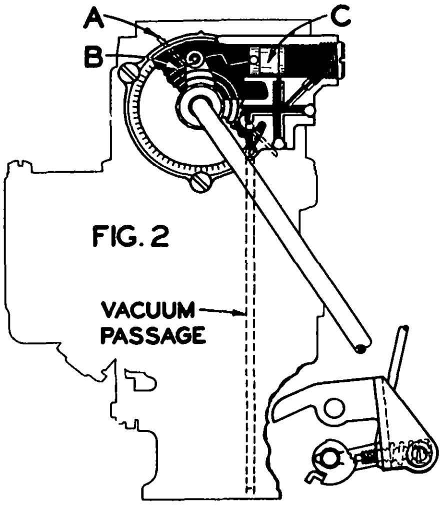


FIG. 2

CHOKE PARTIALLY OPEN — ENGINE FIRING

As the engine begins to fire the manifold vacuum which is created pulls vacuum piston 'C" and opens choke valve 'A" against the tension of the thermostat spring "B" Sufficient air is thereby admitted to give a satisfactory running mixture With this action the fast idle cam is allowed to revolve to a lower step Fig 2

ENGINE WARM — SLOW IDLE

While the engine continues to run the choke valve "A" is forced open by the inrushing air against the tension of the thermostat spring "B' Heat is transmitted into the thermostat chamber, and the thermostat spring gradually absorbs heat so that its tension decreases until it does not offer any further resistance to the choke valve opening The choke valve continues to open and allows the fast idle cam to rotate until the throttle stop screw is at normal idle position See Fig 3

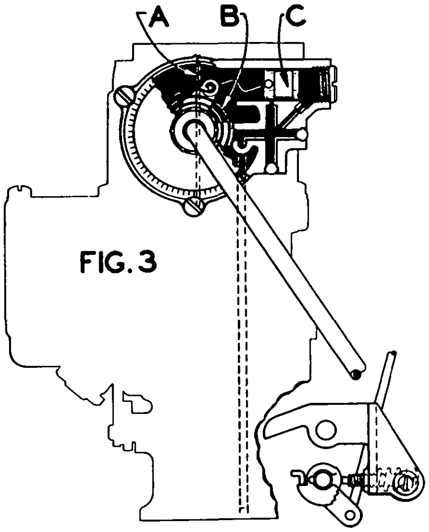


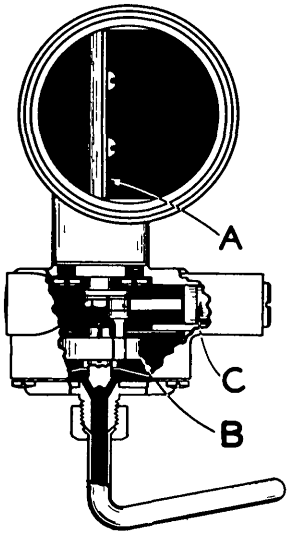
FIG. 3

DEFLOODER ADJUSTMENT

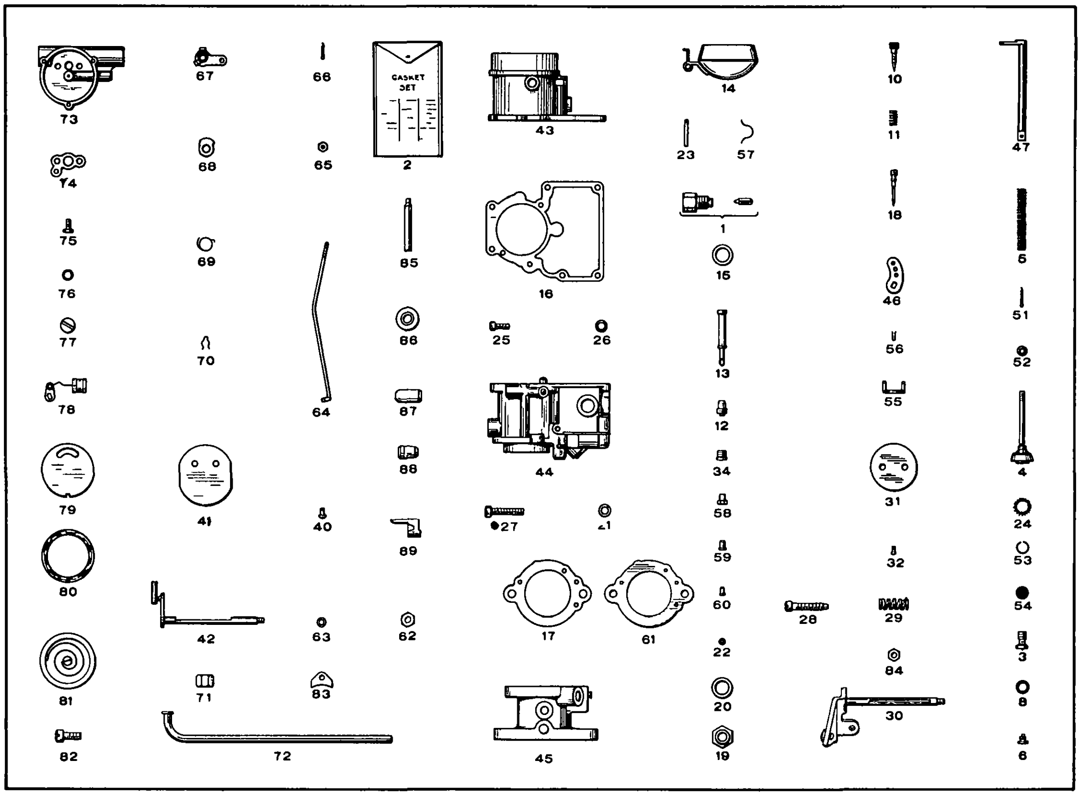
With throttle held in wide open position choke valve should be open so that a **5/32"** drill can be placed between choke valve and air horn The amount of opening can be changed by bending the lip on the fast idle lever

THERMOSTAT ADJUSTMENT

The thermostat spring is set at the factory to give satisfactory performance under normal conditions To compensate for the wide range in volatility of the various brands of gasoline, three markings are incorporated on the outside of the thermostat cover, namely H, M and R The standard setting at the factory is with "R" coinciding with the highest projection on the thermostat housing flange and is for use with regular or commercial brands of gasoline If by having the cover set at "R" the engine tends to load up or over-choke, the cover should be moved to "M" which provides a leaner setting Where high volatile fuels are continuously used it may be desirable to set the cover plate on "H" The thermostat that is originally installed need not be changed unless it is tampered with When installing a new thermostat the following procedure can be used, which will provide an **approximate** setting After assembling the thermostat onto the cover, submerge the unit in water of 70° temperature Allow a few minutes for the thermostat to position itself and place a marking with a pencil on the cover to coincide with the center of the hook of the thermostat "H" setting can then be indicated two graduations from the new marking, "M' four graduations and "R' six Thoroughly dry the assembly and place on thermostat housing It may be necessary to vary the adjustment slightly to obtain best possible performance



STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No.	Part No.	Part Name
	1	**P-21918**	Float Needle Valve and Seat 093 **(NOT VAR.)**
	2	**J-5319-G**	Complete Gasket Set
	3	**P-21776**	Power By Pass Jet No 56 **(NOT VAR.)**
	4	**P-19565**	Pump Piston and Stem **(Includes P 16960)**
	5	**P-22020**	Spring—Pump Duration
	6	**P-18144**	Pump Inlet Check Valve
	8	**P-19448**	Gasket--By-Pass Jet
	10	**P-17402**	Idle Needle Valve
	11	**P-15481**	Spring—Idle Needle Valve
	12	**P-19442**	Metering Jet **.059"** **(VAR.)**
	13	**P-23264**	Main Discharge Jet No 28 36 **(NOT VAR.)**
	14	**P-22081**	Float and Lever
	15	**P-10666**	Gasket—Float Needle Valve Seat
	16	**P-23312**	Gasket—Air Horn
	17	**P-23267**	Gasket—Main Body
	18	**P-21778**	Idle Tube No 70 **(NOT VAR.)**
	19	**P-23265**	Plug—Main Discharge Jet
	20	**P-60308**	Gasket—Main Discharge Jet Plug
	21	**P 3157**	Lockwasher—Main Body Attach Screw
	22	**P-18772**	Lead Ball
	23	**P-23272**	Pin—Fulcrum—Float Lever
	24	**P-16960**	Spring—Pump Piston—Leather Expansion
	25	**P-3199**	Screw—Air Horn Attaching
	26	**P-1791**	Lockwasher—Air Horn Attaching Screw and Pump Lever Nut
	27	**P-22867**	Screw—Main Body Attaching
	28	**P-23277**	Screw—Throttle Stop
	29	**P-15831**	Spring—Throttle Stop Screw
	30	**P-23274**	Throttle Lever and Stem
	31	**P-23282**	Throttle Valve (20°) **(NOT VAR.)**
	32	**P-4522**	Screw—Throttle Valve Attaching
	34	**P-23269**	Plug—Pump Check Valve
	40	**P-22573**	Screw—Choke Valve Attaching
	41	**P-23295**	Choke Valve
	42	**P-23291**	Air Horn Lever and Stem
		P-19575	Ball Joint
	43	**P-23290-T**	Air Horn
	43 A	**P-24176**	Assy—Air Horn, Valve and Choke Housing (Supersedes P 23289)
	44	**P-23261**	Assy—Main Body **1-3/16"** Venturi (Complete with **No. 70** H S Bleeder **No. 64** Pump Disch Tube and **No. 54** Idle Air Bleeder) **(VAR.)**
	45	**P-23278**	Throttle Body **No. 56-60** Idle Disch Holes—**No. 56** and **No. 60** Spark Control Hole **(VAR.)**
		P-23279	Pin—Fast Idle Cam
	46	**P-21774**	Pump Lever
	47	**P-23268**	Pump Rod
	51	**P-4**	Cotter Pin—Pump Rod

NOTE—For parts marked (VAR.) size must be specified when ordering.

Bin Location	Key No.	Part No.	Part Name
	52	**P-18135**	Nut--Pump Rod
	53	**P 23271**	Spring Clip—Pump Strainer
	54	**P-23270**	Screen Pump Strainer
	55	**P-20958**	Pump Link
	56	**P-19374**	Cotter Pin - Pump Link
	57	**P 23273**	Spring—Float Fulcrum Pin
	58	**P 21949**	Plug– Pump Channel Drive ¼
	59	**P-15459**	Plug -Drive -Idle Air Bleed Channel ¼
	60	**P 15458**	Plug Idle Disch Channel No 10
	61	**P 23266**	Insulator Gasket -Main Body
	62	**P 16571**	Nut Vacuum Piston and Link Attaching
	63	**P-15875**	Lockwasher--Vac Piston & Link Attach Nut
	64	**P 23285**	Fast Idle Rod
	65	**P-19587**	Nut—Fast Idle Rod
	66	**112-S-1**	Cotter Pin—Fast Idle Rod
	67	**P-23286**	Fast Idle Cam Lever
	68	**P-23283**	Fast Idle Cam
	69	**P-23284**	Torsion Spring---Fast Idle Cam
	70	**P-21338**	Cotter Pin– Fast Idle Cam
	71	**P 23596**	Nut Heat Tube Connecting
	72	**P-23309**	Heat Tube
	73	**P-24178**	Auto Choke Housing (Supersedes P-23298)
	74	**P-23297**	Gasket--Auto Choke Housing
	75	**P-12016**	Screw -Auto Choke Housing Attaching
	76	**P-15346**	Lockwasher—Auto Choke Housing Attach Screw
	77	**P-23158**	Screw Plug—Vac Piston Bore
	78	**P-23300**	Vacuum Piston, Link and Lever
	79	**P-23051**	Baffle Plate
	80	**P-23052**	Insulator—Thermostat Housing
	81	**P-23302**	Thermostat Cover with Thermostat
	82	***P-2866**	Screw Therm Cover Attaching
	83	***P-23932**	Washer—Therm Cover Attaching Screw
	84	**P-2290**	Nut—Pump Lever
	85	**P-23262**	Tube—Pump Discharge No 64 **(NOT VAR.)**
	86	**P-19480**	Wedge—Pump Discharge Tube
	87	**P-22369**	• High Speed Bleeder **No. 70** **(VAR.)**
	88	**P 20470**	Idle Air Bleeder No 54 **(NOT VAR.)**
	89	**P-23263**	Cup—Small Venturi

NOTE When servicing or ordering parts for carburetors with code number 6-9 , when thermostat housing is replaced, the following parts must be used in conjunction

P-2866 Thermostat Cover Attach Screw
P-23932 Thermostat Cover Attach Screw Washer

If Thermostat Cover Attach Screws or Thermostat Cover Attach Screw Washers are ordered for carburetors with '6 9' code number use following number.

P-21596 Screw
P-23815 Washer

BENDIX PRODUCTS DIVISION
South Bend **Of Bendix Aviation Corporation** Indiana

Printed in U. S A

STROMBERG "EE-1" CARBURETOR

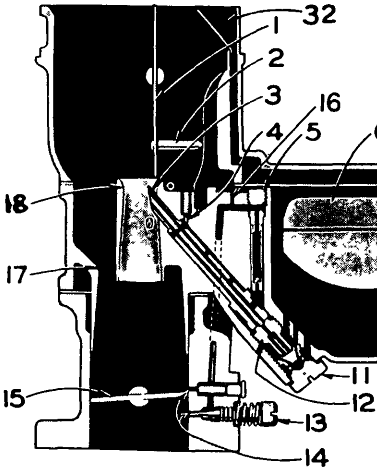
STROMBERG NO. A-18401 (CODE NO. 6-63) STUDEBAKER SYMBOL 190108

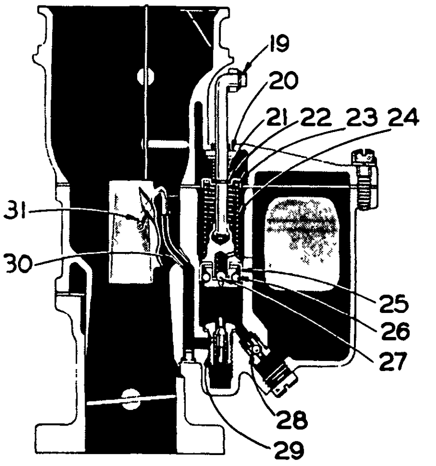
SIZE: 1" DUAL D. D. 3-HOLE FLANGE

1937
Studebaker
MODEL
"3-C"
3-1/16"x4-1/4"—8 cyl.

PARTS ILLUSTRATED

1. Choke Valve
2. Poppet Valve
3. Main Discharge Jet
4. High Speed Bleeder
5. Idle Air Bleeder
6. Idle Tube
7. Float
8. Float Needle Valve
9. Float Needle Valve Seat
10. Gasoline Inlet
11. Float Fulcrum Pin
12. Main Discharge Jet Plug
13. Main Metering Jet
14. Idle Needle Valve
15. Idle Discharge Holes
16. Throttle Valve
17. Primary Venturi
18. Auxiliary Venturi
19. Pump Link
20. Dust Washer
21. Dust Washer Spring
22. Retainer Washer Lock
23. Duration Spring Retainer Washer
24. Pump Duration Spring
25. Pump Piston
26. Pump Piston Expansion Spring
27. Pump Relief Valve
28. Pump Inlet Check Valve
29. Power By-Pass Jet
30. Pump Discharge Nozzle Holder
31. Pump Discharge





Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **15/32"** below top surface of float chamber (without gasket) at 3 lbs. pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level).

MAIN METERING SYSTEM—Venturi **1-1/32"; ** Main Discharge Jet **No. 32-36** P-20646 **(Tool T-24967);** High Speed Bleeder **No. 70** in body. Main Metering Jet **.047"** P-19442 **(Tool T-24924);** Use **Tool T-19099** Screw Driver for removing main jet plug. Main metering system controls the flow of fuel up to approximately 65 to 70 M. P. H.

POWER SYSTEM—Combination Power and Pump By-Pass Jet **No. 63** P-19447. The Power Jet is brought into action at approximately 65 to 70 M. P. H. Pump piston to rest on seat of by-pass jet (less over-travel) with throttle valve opened **21/64" + — 1/64"** drill (measure with shank end of **21/64"** drill); bend pump lever fulcrum arm at ball joint end to obtain correct setting.

ACCELERATION—Pump Discharge Nozzles **No. 65** in main body; Pump capacity **9** to **12** c.c. per 10 fast strokes, and **14** to **18** c.c. per 10 slow strokes. Use **Tool T-24972.** Pump action takes place during acceleration period only.

IDLE SYSTEM—Idle Discharge holes **Nos. 56-60.** With throttle valve fully closed and **No. 60** drill in idle hole, edge of valve is located **.030" + — .004"** from **No. 60** drill; Idle Air Bleed **No. 44** in main body; Idle Tube **No. 70** P-20614. **Adjustment:** Adjust to smooth running, one barrel at a time, OUT to make richer and IN to make leaner; throttle at 7 to 8 M. P. H.

VACUUM SPARK CONTROL—With throttle fully closed and **No. 50** drill in spark hole, edge of valve is located **Flush** from **No. 50** drill. **(2 No. 50** spark holes.)

FLANGE GASKET—P-20466.

SPECIAL TOOLS REQUIRED—Use Studebaker complete Tool Kit **SER-386;** T-24733 Float Adjuster Wrench; T-24967 Main Discharge Jet Remover; T-24924 Main Metering Jet Wrench; T-24970 By-Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burrette Gauge; T-24968 Handle; T-19099 Main Jet Plug Screw Driver.

MOTOR TUNE-UP DATA

SPARK PLUG—.025".
Clean and adjust at regular intervals.

DISTRIBUTOR—.018" to .024".
Breaker gap set .018" to .024".
Replace if necessary.

VALVES—Intake: .016".
Exhaust: .016". Engine cold.

IGNITION TIMING—Stationary contacts to open for No. 1 cylinder when top dead center "UDC 1-8" mark is in line with pointer.

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

AUTOMATIC CHOKE CONTROL — FAST IDLE

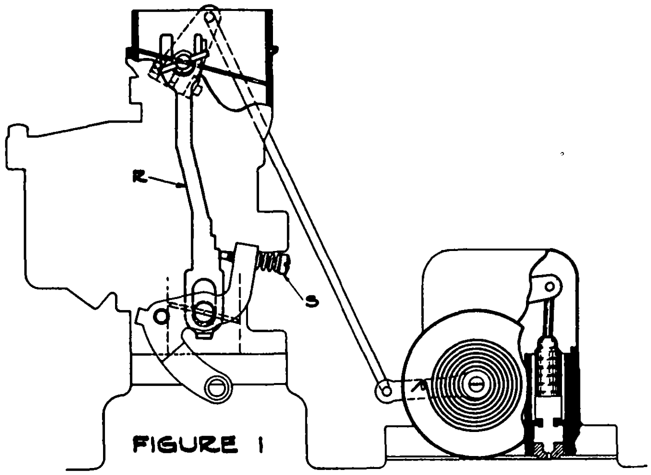


FIGURE 1

CHOKE CLOSED — FAST IDLE

The purpose of the fast idle mechanism is to prevent the throttle valve from closing tightly while cranking the engine, and also from stalling during the warming up period. Figures 1 to 4 show th automatic choke control and fast idle mechanism in the various stages of operation.

To make a start, it is necessary to OPEN THROTTLE TO 20 MILES HOUR SPEED. With this action, adjustment screw "S" is lifted away from rod "R" and the tension of the thermostat spring entirely closes the choke valve. Screw then comes to rest on extreme fast idle position as shown in Fig. 1. During the cranking of the engine, the carburetor and choke control remain in this position.

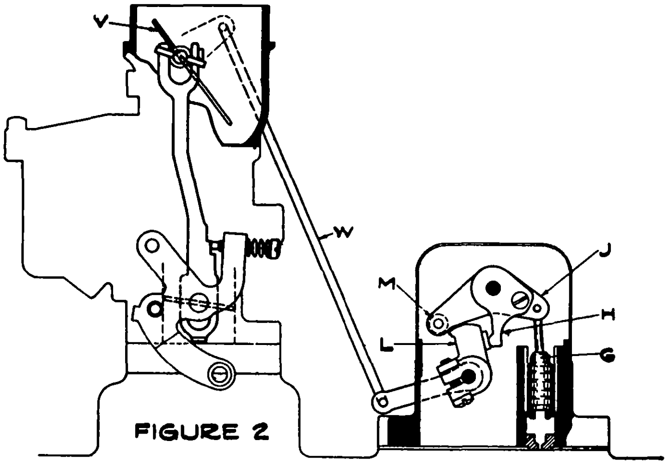


FIGURE 2

ENGINE FIRING — INTERMEDIATE IDLE

As soon as the engine begins to fire, the manifold vacuum pulls down piston "G", unlocking cam "L" and roller "M". Kick lever "H" comes in contact with cam "L" and forces the choke valve "V" open against the tension of the thermostat spring, admitting sufficient air for proper running mixture. As the engine warms up, the thermostat becomes weakened from the heat of the exhaust manifold, and the carburetor choke valve being off center is opened entirely by the inrushing air.

The fast idle rod is free to drop of its own weignt and the adjusting screw comes to rest on the intermediate idle shown in Fig. 2.

CHOKE OPEN—SLOW IDLE—ENGINE HOT OR COLD

The slow and fast idle of the engine is governed by the location of idle adjusting screw "S" on the three steps of fast idle rod "R". Fig. 3 shows the choke valve "V" in wide open position which it will be when a hot motor is stopped and the throttle valve allowed to close. In this illustration, adjustment screw "S" is shown at slow or curb idle which should be set at seven miles per hour with the engine warm. As the engine becomes cold the thermostat also cools to gradually gain tension and tend to close the carburetor choke valve. Pin "T" which is fastened to the choke valve shaft makes contact with ear "U" of fast idle rod "R", lifting the rod until its travel is stopped by adjusting screw "S".

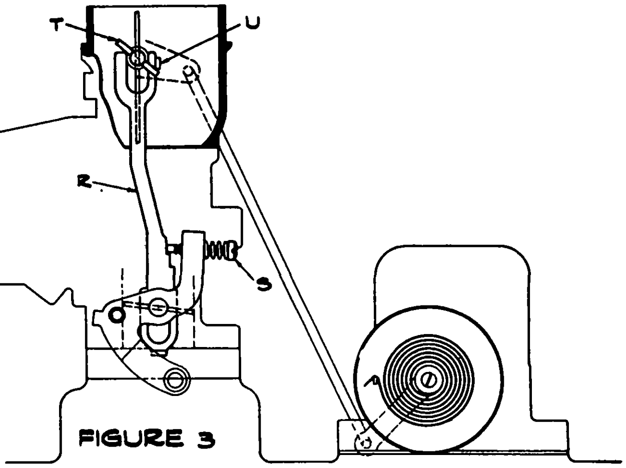


FIGURE 3

FAST IDLE ADJUSTMENT

(Note: The foregoing illustration covers the carburetors which have a combination fast idle rod and cam. For carburetors No. A-17931 and A-18401 the fast idle rod is used in conjunction with a separate fast idle cam.) **ADJUSTMENT:** With fast idle screw in contact with second step of fast idle cam (at shoulder of third step), choke valve to be open to a No. 6 drill. Adjust by screwing fast idle rod "IN" or "OUT" of ball joint to obtain correct choke valve opening.

ENGINE FLOODED — THROTTLE WIDE OPEN

Should the engine become flooded for any reason and fail to start, it can be cleaned out by holding the accelerator pedal in wide open position and allowing the starter to turn over the engine a few times.

Opening the throttle wide, revolves lever "X" so that it contacts with ear "Y" on bottom of rod "R" which forces rod down, bringing lug "U" in contact with pin "T" to force choke valve open.

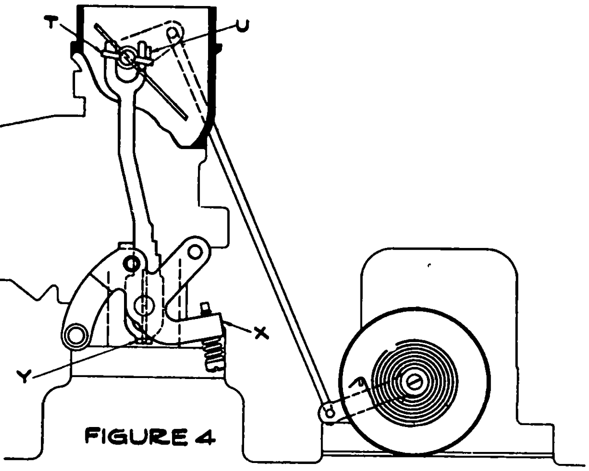
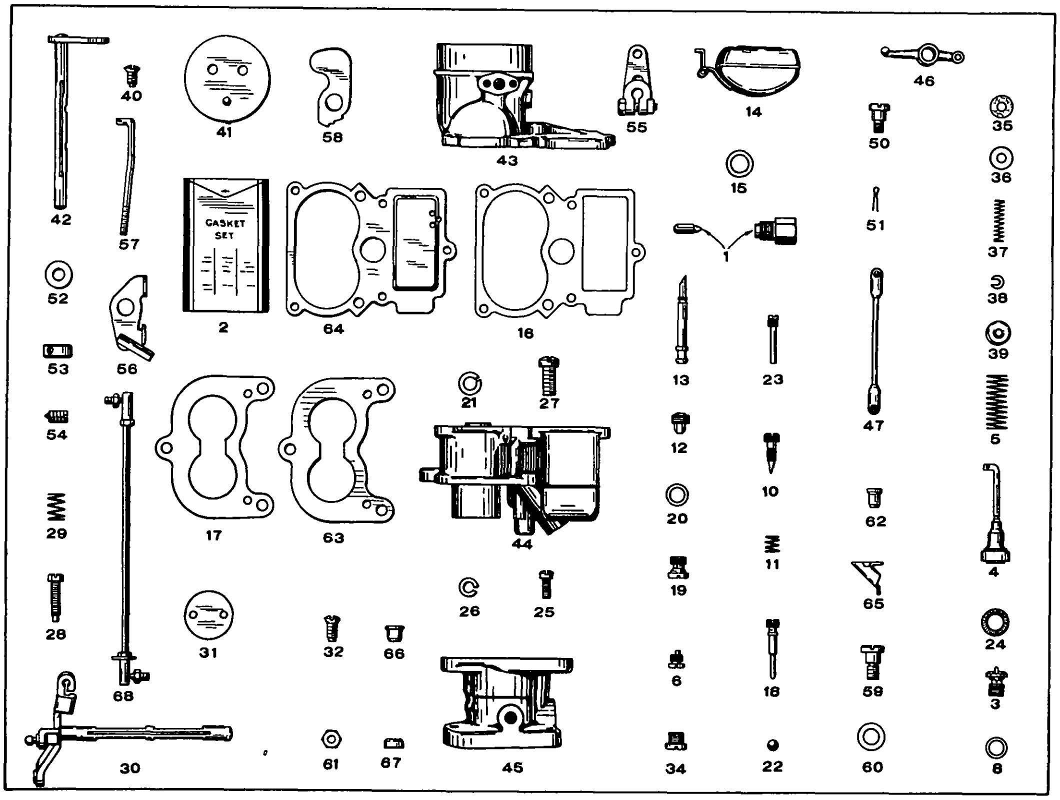


FIGURE 4



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No.	Part No.	Part Name	
	1	P-21519	Float Needle Valve and Seat 101 '	(NOT VAR.)
	2	J-4780-G	Complete Gasket Set	
	3	P-19447	Power By-Pass Jet No 63	(NOT VAR.)
	4	P-20440	Pump Piston and Link	(Includes P-16960)
	4-A	P-20441	Pump Piston, Link and Spring (Complete)	
	5	P-19458	Spring—Pump Duration	
	6	P-18144	Pump Inlet Check Valve	
	8	P-19448	Gasket—By-Pass Jet	
	10	P-17402	Idle Needle Valve	
	11	P-15481	Spring—Idle Needle Valve	
	12	P-19442	Metering Jet .047"	(VAR.)
	13	P-20646	Main Discharge Jet No 32-36	(NOT VAR.)
	14	P-19825	Float with Lever	
	15	P-10666	Gasket—Float Needle Valve Seat	
	16	P-19428	Gasket—Air Horn	
	17	P 19432	Gasket—Main Body	
	18	P-20614	Idle Tube No 70	(NOT VAR.)
	19	P-19441	Plug—Main Discharge Jet	
	20	P-7338	Gasket—Main Disch Jet Plug & Ck Valve Plug	
	21	P 3157	Lockwasher—Main Body Attaching Screw	
	22	P 18772	Lead Ball	
	23	P-18125	Screw—Float Lever Fulcrum	
	24	P-16960	Spring—Pump Piston Leather Expansion	
	25	P-3199	Screw—Air Horn Attaching	
	26	P-1791	Lockwasher—Air Horn Attaching Screw	
	27	P-22025	Screw—Main Body Attaching	
	28	P-21141	Screw —Throttle Stop	
	29	P-15831	Spring—Throttle Stop Screw	
	30	P-20719	Throttle Lever and Stem	
		P-19509	Ball—Connector	
	31	P 19435	Throttle Valve (5°)	(VAR.)
	32	P-4522	Screw—Throttle Valve Attaching	
	34	P-19716	Plug—Check Valve	
	35	P-17380	Washer—Felt	
	36	P-17060	Washer—Splash—Pump Link	
	37	P-19488	Spring—Packing Retainer	
	38	P-22045	Washer—Horseshoe	
	39	P-22046	Washer—Spring Retainer	
	40	P-4522	Screw—Choke Valve Attaching	
	41	P-20607	Choke Valve	
	42	P-22033	Choke Stem and Lever	
	43	P-22037	Air Horn	
	43-A	P-22036	Assy —Air Horn and Valve	
	44	P-22029	Main Body **1-1/32** Venturi **No. 70** High Speed Bleeder **No. 44** Idle Air Bleeder—Pump Disch Tubes	(VAR.)
		P-20435	Pump Disch Tube (Right) No 65	(NOT VAR.)
		P-20436	Pump Disch Tube (Left) No 65	(NOT VAR.)
		P-19430	Pump Tube Wedge	
		P-20709	Pin—Fast Idle Lever Stop	
	45	P-22648	Throttle Body **No. 56-60** Idle Disch Holes	(VAR.)
	46	P-19427	Pump Lever	
	47	P-22026	Pump Rod	
	50	P 19433	Screw —Pump Lever Fulcrum	
	51	P 7170	Cotter Pin—Pump Link and Fast Idle Rod	
	52	P-22034	Washer—Spacer—Choke Lever	
	53	P-17081	Collar—Choke Stem	
	54	P-16161	Set Screw—Choke Stem Collar	
	55	P-18110	Assy Choke Lever	
		P-18300	Screw—Choke Lever Clamp	
		P-18299	Nut—Choke Lever Clamp Screw	
	56	P-20715	Fast Idle Lever	
		P-19575	Ball Joint	
	57	P-22032	Fast Idle Rod	
	58	P-20713	Fast Idle Cam	
	59	P-20745	Screw—Fast Idle Lever Fulcrum	
	60	P-20744	Washer– Fast Idle Fulcrum Screw	
	61	P-19587	Nut—Fast Idle Rod	
	62	P-15458	Plug Idle Disch Holes No 10	
	63	P-22024	Insulator Gasket—Main Body	
	64	P-21738	Gasket—Air Horn	
	65	P-20608	Vent—Float Chamber	
	66	P-20454	Plug—Spark and Idle Drilling Hole	
	67	P-20884	Plug—Vacuum Spark Control Boss	
			FURNISHED ONLY WHEN SPECIFIED ON ORDER	
	68	P 20489	Assy —Choke Rod	
		P-17060	Washer—Choke Rod Nut	
		P-16639	Nut—Choke Rod Lock	
		P-17761	Ball Joint	

NOTE—For parts marked (VAR.) size must be specified when ordering.

BENDIX PRODUCTS DIVISION
SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

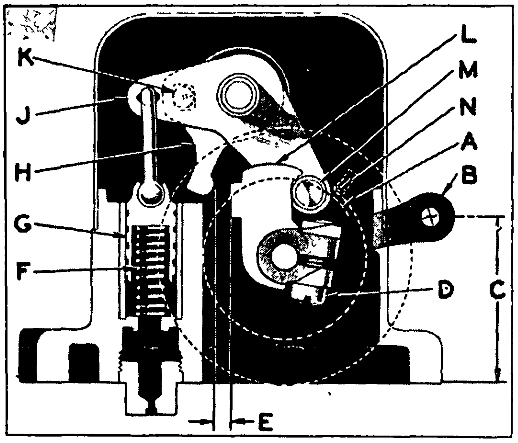
STROMBERG MODEL "C" AUTOMATIC CHOKE

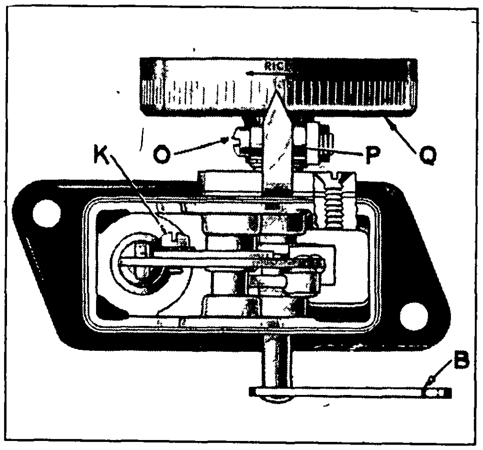
STROMBERG NO. A-17950 (CODE NO. 6-64) STUDEBAKER SYMBOL 190109

1937
STUDEBAKER
MODEL
"3-C"
3-1/16"x4-1/4"—8 cyl.

PARTS ILLUSTRATED

A. Thermostat
B. Control Lever
C. Distance between lever hole and base of choke. (See instructions)
D. Cam Clamp Lever
E. Distance between lever and cam (See instructions)
F. Vacuum Piston Spring
G. Vacuum Piston
H. Kick Lever
J. Vacuum Piston Lever
K. Kick Lever Adj. Screw.
L. Locking Cam
M. Piston Lever Roller
N. Thermostat Case Prong
O. Case Clamp Screw
P. Pointer
Q. Thermostat Case





GENERAL DESCRIPTION

The Stromberg Automatic Choke Control is a device that eliminates all methods of hand operated chokes. Its operation is wholly governed by vacuum and heat of the engine, which makes it positive acting under any conditions. It acts quicker than any choke can be operated by hand and allows the carburetor choke valve to open the correct amount during the warming-up period of the engine.

PRINCIPLE OF OPERATION

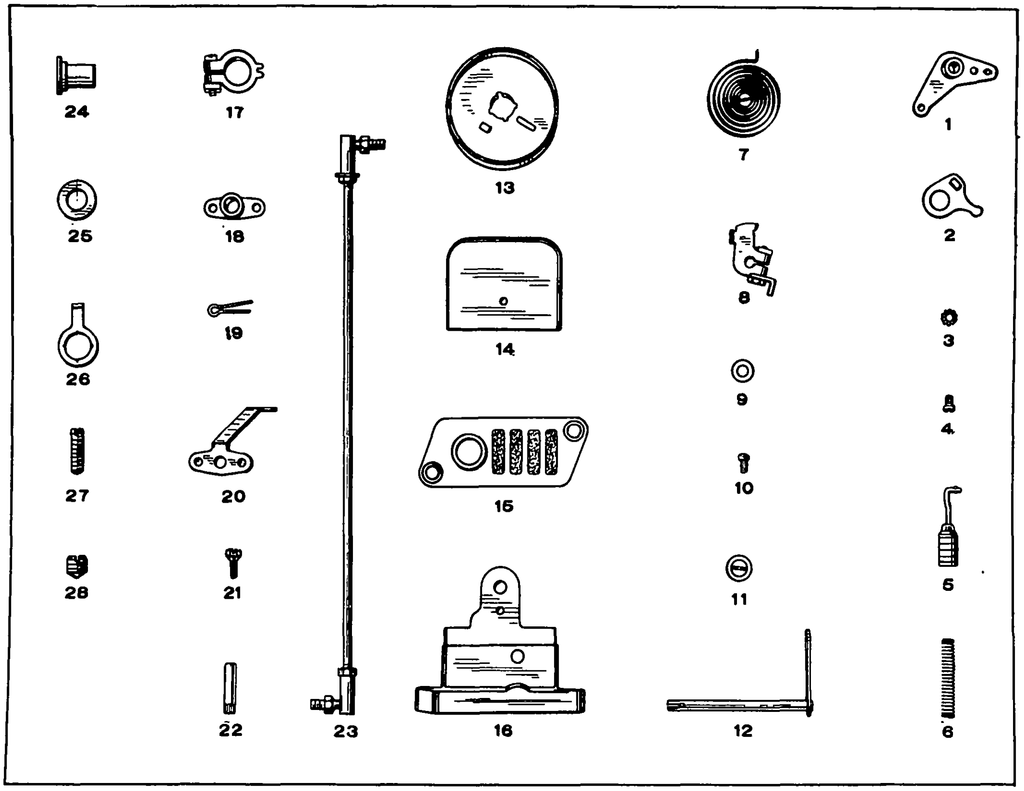
The thermostat "A" returns the choke valve in the carburetor to closed position when the thermostat reaches a temperature of 70°. The choke valve is closed during the cranking of the engine and held so by the locking of roller "M" against cam "L". When the engine fires and a manifold vacuum is created, vacuum piston "G" is pulled partly down, unlocking cam "L" and roller "M". As soon as the engine fires steadily and an even vacuum is present, piston travels the remaining distance. Lever "H" then comes in contact with cam "L" opening the choke a pre-determined distance against the tension of thermostat spring. The distance between lever and cam is adjustable by screw "K". When the motor has reached a water temperature of 120°, the choke valve should be in wide open position.

ADJUSTMENTS

The choke is not a delicate instrument, but when servicing, it should be given the same consideration as any fine part of the engine.

For adjusting the Automatic Choke Control for any reason whatever, it can be quickly and accurately done by following very carefully the procedure outlined below:

1. Remove automatic choke from motor by disassembling the carburetor choke rod and attaching screws.
2. Under any conditions, the thermostat "A" should be allowed to cool or warm until it has reached a temperature of 70°. This is very important, and if the car has been running, it is necessary to allow the automatic choke to stand long enough to cool off, or on the other hand, if the place or garage where the choke is to be adjusted is colder than 70°, the choke should be taken into a room of normal temperature.
3. Remove housing cover and see that all working parts operate freely.
4. With roller "M" in locked position against first notch of cam "L", distance "C" should be 1-1/16"; if it is not so, it can be readjusted by loosening screw "D" and setting accordingly.
5. Distance "E" is set at the factory to a No. 20 drill with the cam in locked position. It can be readjusted by loosening screw "K" and set to the proper distance.
6. Unhook thermostat "A" from prong "N". Loosen clamp screw "O", and revolve thermostat case "Q" so that the zero marking is under the pointer. When in this position, the hook of the thermostat should be flush with the prong.
7. Place hook on prong and revolve case 8 graduations rich. Fasten clamp screw "O" securely.
8. Piston "G" should operate freely and show no signs of sticking in any position.
9. Assemble cover on body.
10. Assemble choke control on manifold making certain gasket is in good condition. Draw down bolts evenly.
11. Assemble connecting rod between choke control and carburetor so that there is only .006" backlash between levers. If it is necessary to adjust, loosen clamp screw of carburetor choke lever.
12. Assemble air cleaner so that it will not interfere with the carburetor choke lever.



SERVICE REPLACEMENT PARTS LIST

Key No.	Part No.	Part Name
1	**P-17978**	Vacuum Piston Lever
2	**P-17992**	Kick Lever
3	**P-18043**	Lockwasher—Kick Lever Set Screw
4	**P-2369**	Set Screw—Kick Lever
5	**P-17976**	Vacuum Piston and Link
6	**P-18318**	Spring—Vacuum Piston
7	**P-21608**	Thermostat
8	**P-18773**	Kick Lever Cam and Screw
	P-18309	Cam
	P-18770	Bracket
	P-18769	Cam Clamp Screw
	P-18299	Cam Clamp Screw Nut
9	**P-16426**	Washer—Thermostat Stem
10	**P-2866**	Screw—Cover Attaching
11	**P-22050**	Bushing—Vacuum Reducer
12	**P-19976**	Thermostat Stem and Lever
13	**P-22663**	Housing—Thermostat
14	**P-17983**	Cover
15	**P-19313**	Gasket—Flange
16	**P-19154**	Main Body
17	**P-18849**	Clamp—Thermostat Housing
	P-16894	Clamp
	P-9025	Clamp Screw
	P-4517	Clamp Screw Nut
18	**P-22664**	Bracket—Thermostat Housing
19	**P-4**	Cotter Pin—Thermostat Stem
20	**P-19157**	Pointer—Thermostat Adjusting
21	**P-22662**	Screw—Thermostat Bracket Attaching
22	**P-17985**	Stem—Vacuum Piston Lever
23	**P-19972**	Choke Rod
	P-17761	Ball Joint
	P-16639	Nut—Choke Rod Adjusting
	P-17060	Washer—Choke Rod Adjusting Nut
	P-19973	Rod
24	**P-22665**	Bushing—Coil Hook Lever Attaching
25	**P-22666**	Washer—Coil Hook Lever
26	**P-22667**	Lever—Coil Hook
27	**P-19989**	Set Screw—Kick Lever Cam
28	**P-12866**	Lock Screw—Kick Lever Cam Set Screw

NOTE—For parts marked (VAR.) size must be specified when ordering.

STROMBERG "EX-23" CARBURETOR

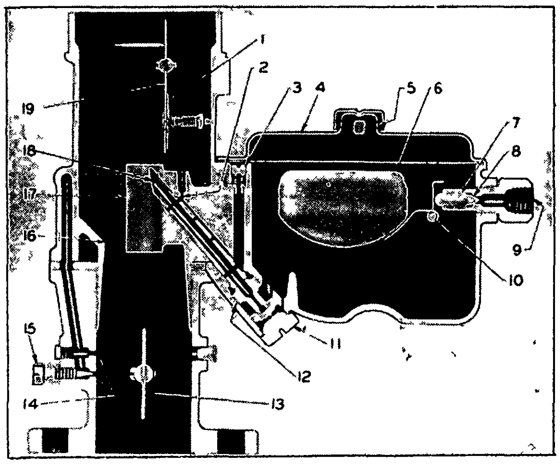
STROMBERG NO. A-18402 (CODE NO. 6-62A) STUDEBAKER SYMBOL 189766

SIZE: 1¼" D. D. S.A.E. 2-11/16" FLANGE CENTERS. **REPLACE WITH BXO-25 EQPT. J-5470**

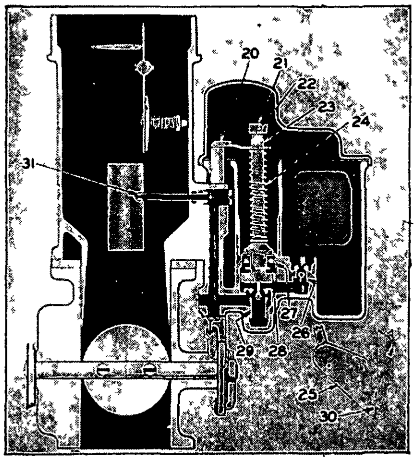
1937
Studebaker
MODEL
5A & 6A DICTATOR
3¼"x4⅜"—6 cyl.

PARTS ILLUSTRATED

1 Poppet Valve
2 High Speed Bleed
3 Idle Tube
4 Float Chamber Cover
5 Float Chamber Vent
6 Float
7 Float Needle Valve
8 Float Needle Valve Seat
9 Gasoline Inlet
10 Float Fulcrum Pin
11 Main Discharge Jet Plug
12 Main Metering Jet
13 Throttle Valve
14 Idle Discharge Holes
15 Idle Needle Valve
16 Primary Venturi
17 Auxiliary Venturi
18 Main Discharge Jet
19 Choke Valve
20 Pump Rod
21 Power Adjustment Nut
22 Cotter Pin
23 Piston Connecting Rod
24 Connecting Rod Spring
25 Pump Lever



26 Check Valve
27 Pump Piston
28 Pump Piston Spring
29 Power By-Pass Jet



30 Pump Lever Link
31 Pump Discharge Nozzle

Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **5/8"** below top surface of float chamber (without gasket) at 3 lbs. pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level).

MAIN METERING SYSTEM—Venturi **1-5/32";** Main Discharge Jet **No. 28-32** P-21687 **(Tool T-24967).** Use new P-20630 Lead Gasket assembled on lower shoulder of main discharge jet; High Speed Bleeder **No. 70** in body. Main Metering Jet **.058"** P-17004 **(Tool T-23844);** Use **Tool T-19099** Screw Driver for removing main jet plug. Main metering system controls the flow of fuel up to approximately 65 to 70 M. P. H.

POWER SYSTEM—Combination Power and Pump By-Pass Jet **4 No. 56** P-18149. The Power Jet is brought into action at approximately 65 to 70 M. P. H. Pump piston to rest on seat of by-pass jet (less over-travel) with throttle valve opened **7/16" + — 1/64"** drill (maximum pump setting) (measure with shank end of **7/16"** drill); adjust pump stem nut to obtain correct setting.

ACCELERATION — Pump Discharge Nozzle **No. 66** P-18126; Pump capacity **12** to **14** c c. per 10 fast strokes, and **17** to **19** c c per 10 slow strokes with pump rod link set in middle setting. Use **Tool T-24972.** Pump action takes place during acceleration period only.

IDLE SYSTEM—Idle Discharge holes **Nos. 56-58.** With throttle valve fully closed and **No. 58** drill in idle hole, edge of valve is located **.012" + — .004"** from **No. 58** drill; Idle Air Bleed **No. 70** in idle tube; **No. 55** in throttle body P-21714; Idle Tube **No. 52** P-21688. **Adjustment:** Adjust to smooth running, OUT to make richer and IN to make leaner; throttle at 7 to 8 M. P. H.

VACUUM SPARK CONTOL—With throttle fully closed and **No. 50** drill in spark hole, edge of valve is located **Flush + — .006"** from **No. 50** drill; **2 No. 50** spark holes.

FLANGE GASKET—P-4752.

SPECIAL TOOLS REQUIRED—Use Studebaker complete Tool Kit **SER-386;** T-24733 Float Adjuster Wrench; T-24967 Main Discharge Jet Remover; T-23844 Main Metering Jet Wrench; T-24970 By-Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burrette Gauge; T-24968 Handle; T-19099 Main Jet Plug Screw Driver.

MOTOR TUNE-UP DATA

SPARK PLUG—.025".
Clean and adjust at regular intervals.

DISTRIBUTOR—.020".
Breaker gap set .020".
Replace if necessary.

VALVES—Intake: .016".
Exhaust: .016". **Engine cold,**

SERVICE RECOMMENDATION — Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

IGNITION TIMING—Breaker contacts to open for No. 1 cylinder when the "IGN" mark on vibration damper is in line with pointer on timing gear case.

GENERAL DESCRIPTION AND ADJUSTMENT OF AUTOMATIC CHOKE CONTROL AND FAST IDLE MECHANISM

In the Stromberg EX-23 Model carburetor, the automatic choke control with the exception of the thermostat unit "R" is built into the throttle valve body. The thermostat is attached to the manifold riser where it can absorb heat from the exhaust gasses which govern its tension. The design of the automatic choke control in the EX 23 carburetor does not require the choke control be "locked" in closed position while cranking the engine

CHOKE CLOSED — FAST IDLE

To make a start it is necessary to OPEN THROTTLE TO 20 MILE HOUR SPEED With this movement adjustment screw "E" is lifted away from the fast idle cam "C" and allows choke valve "H" to close With this actoin choke lever "D" is raised and pin "Q" which is on the same pivotal shaft, makes contact with ear "P" of loose lever arm "K" and raises the vacuum piston "J". With the raising of lever "D", ear "B", which is a part of the lever, lifts fast idle cam "C" so that adjustment screw "E" comes to rest on the extreme fast idle position of cam "C" During the cranking of the engine the carburetor and choke control remain in the closed position as shown in Fig 1.

ADJUSTING THERMOSTAT

To adjust the thermostat it is necessary to remove the complete unit "R" from the manifold and proceed as follows.

1. Allow the thermostat to cool or warm until it has reached the temperature of 70°.

2 After it has reached this temperature, unhook the thermostat from the prong "G", revolve indicator point "L" to the zero marking of the thermostat plate In this position the hook of the thermostat should come flush with the prong "G" of the indicator.

3 Thermostat pointer should then be revolved to the prick punch marking which is seven graduations rich and is the original setting made at the factory

   If the thermostat hook does not come against prong "G" when the pointer "L" is at the zero marking, it will be necessary to recalibrate the thermostat as follows

4. Revolve pointer so that the hook of the thermostat comes flush with prong "G", with lever held against screw "T". This will then place pointer "L" at a different position and will be the new zero location This should be stamped on the plate and the old marking obliterated

5 From this point hook the spring onto prong "G" and revolve pointer "L" seven notches rich and lock in position.

6. Reinstall thermostat unit "R" to manifold and with choke valve "H" in closed position, attach rod "W" to lever "U", holding lever against screw "T"

The purpose of the fast idle mechanism is to prevent the throttle valve from closing tightly while cranking the engine and also from stalling during the warming up period. Figures 1 to 4 show the automatic choke control and fast idle mechanism in the various stages of operation

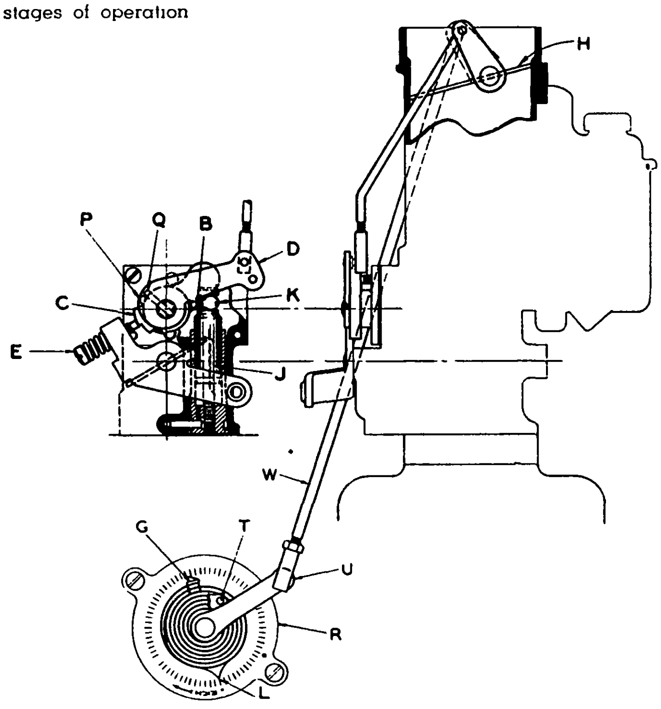


Fig. 1—Choke Closed—Fast Idle

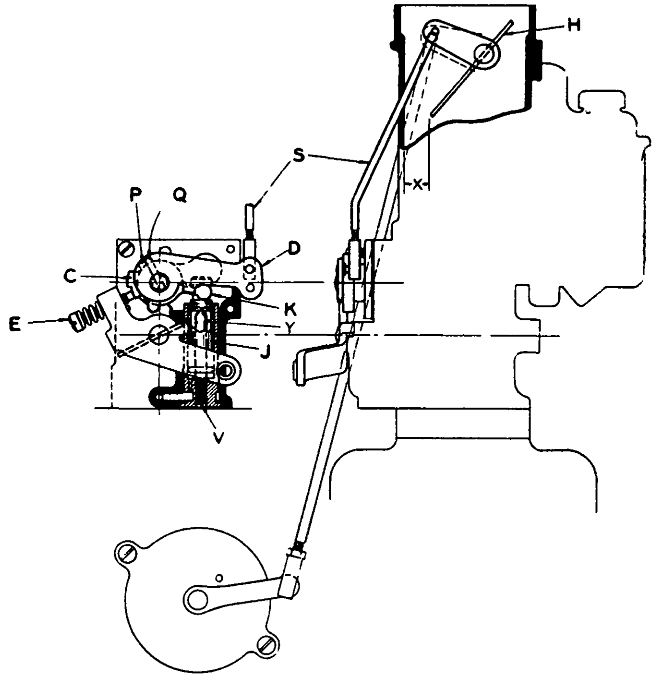


Fig. 2—Choke Partially Open—Engine Warm—Intermediate Idle

CHOKE PARTIALLY OPEN — ENGINE WARM — INTERMEDIATE IDLE

As soon as the engine begins to fire and a manifold vacuum is created, vacuum piston "J" is pulled down Ear "P" of loose arm "K" comes in contact with dowel pin "Q" to rotate shaft and assembly in clockwise direction, lever "D" being on the same shaft as pin "Q" rotates with it and pulls down connecting rod "S", which forces choke valve "H" to open a predetermined amount.

Fast idle cam "C' is a weighted lever and is free to drop by its own weight from this position on, allowing adjustment screw 'E' to gradually close the throttle valve until it reaches the slow idle position The choke valve in the carburetor continues to open by the inrushing air, which works against the tension of the thermostat until the thermostat absorbs enough heat so that it will not offer any resistance until the choke valve 'H' reaches the position as shown in Fig. No. 3 with a hot engine If for any reason it is necessary to replace piston sleeve or pin "Y", the pin should be adjusted so that a 27/64" drill can be placed between the choke valve and body shown as "X", with piston "J' in the down position. After pin is adjusted, lead ball "V' should be used to lock pin in position.

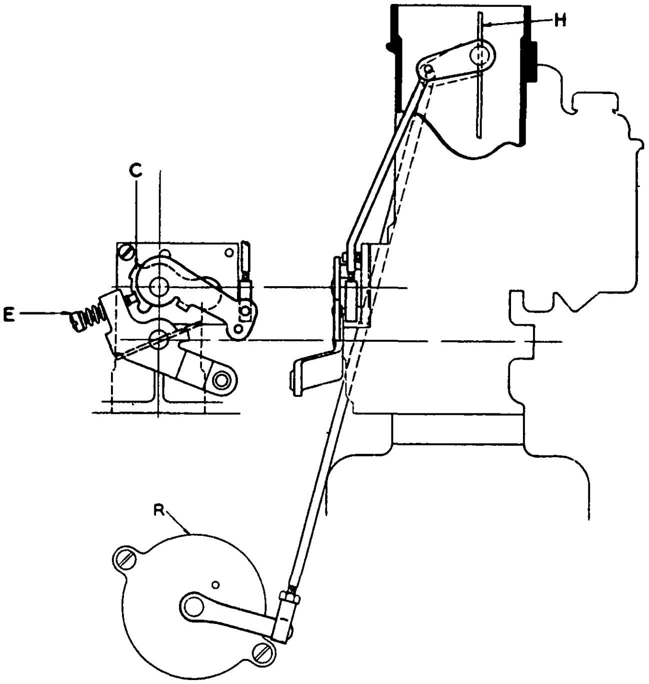


Fig. 3—Choke Open—Slow Idle—Engine Hot or Cold

CHOKE OPEN—SLOW IDLE—ENGINE HOT OR COLD

Figure 3 shows the choke valve "H" in wide open position which it will be when a hot motor is stopped and the throttle valve is allowed to close In this illustration adjustment screw "E' is shown at slow or curb idle which should be set at 7 miles per hour with the engine warm As the engine becomes cold the thermostat also cools to gradually gain tension and tend to close the carburetor choke valve It is prevented from doing so by the fast idle adjustment screw "E" coming in contact with the notch on the fast idle cam "C".

FAST IDLE ADJUSTMENT

With fast idle screw in contact with middle step of cam and against shoulder of third step, choke valve to be open to a 11/64" drill (measure as shown in Fig 2 "X') Adjust by screwing fast idle rod 'IN' or "OUT" of ball joint to obtain correct choke valve opening

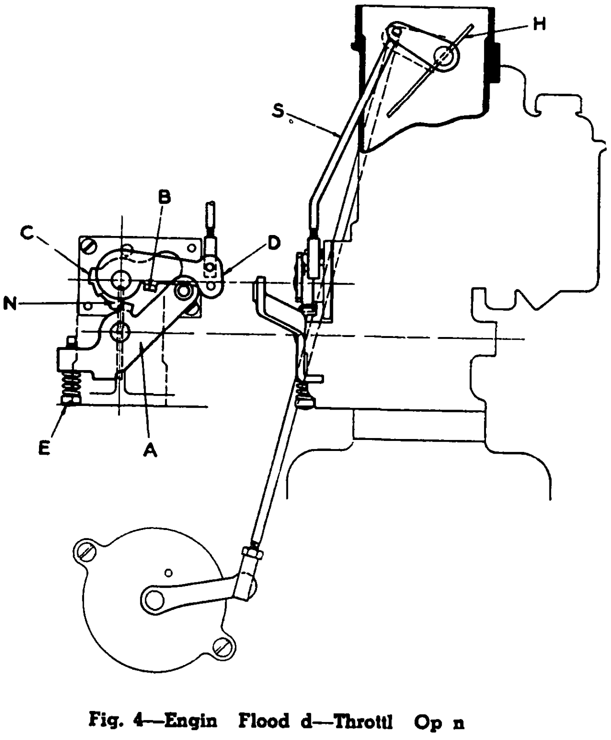
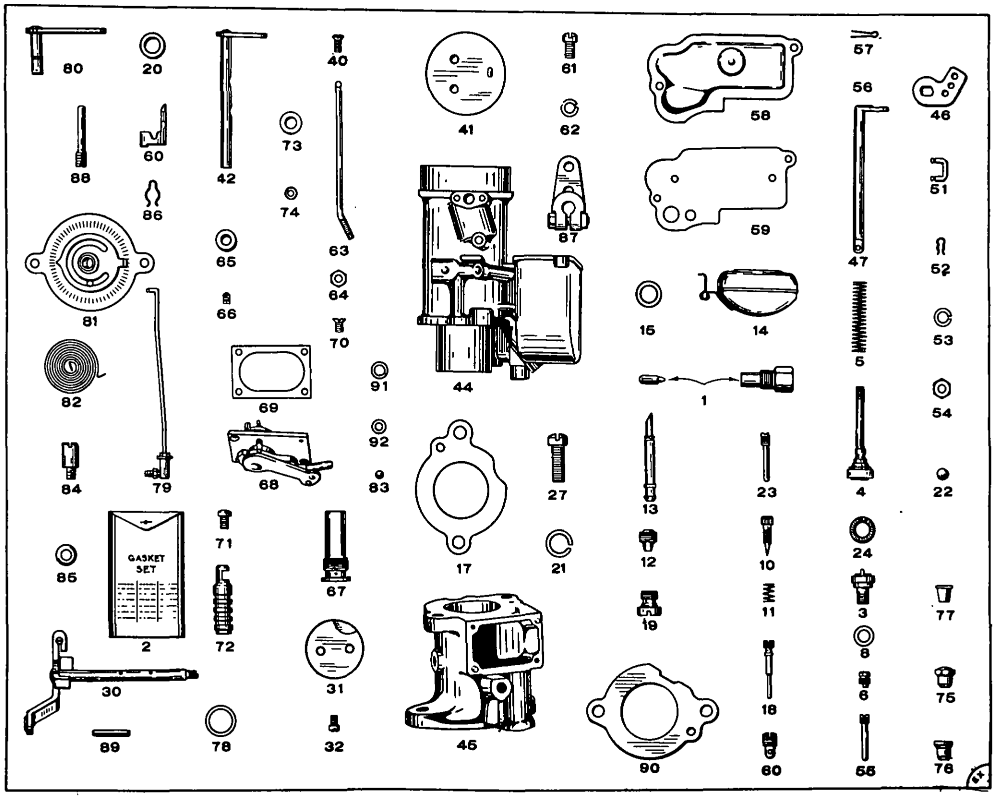


Fig. 4—Engine Flooded—Throttle Open

ENGINE FLOODED — THROTTLE OPEN

Should the engine become flooded for any reason, the choke valve "H" can be manually opened by kicking the throttle pedal wide open This action rotates throttle lever "A" in anti-clockwise direction to bring it in contact with ear "N" of fast idle cam "C'. The weighted end of the cam hits against ear "B" of choke lever "D', which pulls down connecting rod "S" and forces choke valve "H" to open.

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No.	Part No.	Part Name
	1	P-21518	Float Needle Valve and Seat—.093"....(**NOT VAR.**)
	2	J-4610-G	Complete Gasket Set
	3	P-18149	Power By-Pass Jet—No. 56 ....(**NOT VAR.**)
	4	P-19565	Pump Piston and Stem ....(**Includes P-16960**)
	5	P-18215	Spring—Pump Duration
	6	P-18144	Pump Inlet Check Valve
	8	P-6855	Gasket—By-Pass Jet
	10	P-17402	Idle Needle Valve
	11	P-15481	Spring—Idle Needle Valve
	12	P-17004	Metering Jet **.058"** ....(**VAR.**)
	13	P-21687	Main Disch. Jet No. 28-32 ....(**NOT VAR.**)
	14	P-17486	Float with Lever
	15	P-10666	Gasket—Float Needle Valve Seat
	17	P-19323	Gasket—Main Body
	18	P-21688	Idle Tube
	19	P-21697	Plug—Main Disch. Jet
	20	P-60308	Gasket—Main Disch. Jet Plug
	21	P-6592	Lockwasher—Main Body Attach. Screw
	22	P-18772	Lead Ball 3/16"
	23	P-18125	Screw—Fulcrum—Float Lever
	24	P-16960	Spring—Pump Piston Leather Expansion
	27	P-19339	Screw—Main Body Attach.
	30	P-21695	Throttle Lever and Stem
		P-19103	Screw—Idle Adj.
		P-15831	Spring—Idle Adj. Screw
	31	P-22673	Throttle Valve—(18½°) ....(**VAR.**)
	40	P-4522	Screw—Throttle Valve & Choke Valve Attach.
	41	P-20221	Choke Valve
	42	P-20602	Choke Stem & Lever
	44	P-21693-T	Main Body—**1-5/32"** Venturi—**No. 70** High Speed Bleed ....(**VAR.**)
	45	P-22768	Throttle Body—**No. 56-58** Idle Disch. Holes—**No. 50** Spark Holes **No. 55** Idle Air Bleed..(**VAR.**)
		P-18970	Pin—Auto Choke Guide
		P-21714	Idle—Air Bleed
	46	P-20628	Pump Lever
	47	P-19165	Pump Rod
	51	P-20203	Pump Link
	52	P-19374	Cotter Pin—Pump Link
	53	P-1791	Lockwasher—Pump Lever Attach. Nut
	54	P-2290	Nut—Pump Lever Attach.
	55	P-18126	Nozzle—Pump Disch.—**No. 66** ....(**VAR.**)
	56	P-18135	Nut—Pump Rod
	57	P-4	Cotter Pin—Pump Rod Nut—Fast Idle Rod
	58	P-18124-F	Float Cover
	59	P-17778	Gasket—Float Cover
	60	P-20603	Cup—Small Venturi
	61	P-2866	Screw—Float Cover Attach.
	62	P-12167	Lockwasher—Float Cover Attach. Screw
	63	P-21698	Rod—Fast Idle
	64	P-19587	Nut—Fast Idle Rod
	65	P-17081	Collar—Choke Stem
	66	P-16161	Set Screw—Choke Stem Collar
	67	P-21176	Sleeve—Vac. Piston
	68	P-20605	Auto. Choke Unit
		P-19539	Pin—Lever Stop
		P-19575	Ball Joint
	69	P-19124	Gasket—Auto. Choke Unit
	70	P-19105	Screw—Auto. Choke Unit Attach.
	71	P-2369	Screw—Piston Stop
	72	P-21350	Vacuum Piston
	73	P-22868	Spring—Choke Stem
	74	P-17259	Spacer—Choke Stem
	75	P-21053	Plug—Pump Disch. Channel
	76	P-15458	Plug—Idle Disch. Holes
	77	P-15459	Plug—Idle Disch. Drilling Hole
	78	P-19662	Gasket—Vac. Piston Sleeve
	79	P-21678	Rod—Choke
		P-21679	Choke Rod
		P-16639	Nut—Choke Rod
		P-17060	Washer—Ball Joint
		P-17761	Assy.—Ball Joint
	80	P-19975	Thermostat Stem and Lever
	81	P-22629	Thermostat Plate and Bushing
	82	P-21370	Thermostat
	83	P-19983	Lead Ball—⅛"
	84	P-22634	Screw—Thermostat Lock Screw
	85	P-16426	Washer—Thermostat
	86	P-21338	Cotter Pin—Thermostat Stem
		P-22527	Assy.—Thermostat Complete
	87	P-17712	Choke Lever
		P-17711	Lever
		P-18300	Lever Clamp Screw
		P-18299	Lever Clamp Screw Nut
	88	P-19986	Pin—Piston Adj.
	89	P-4499	Pin—Choke Stem Separator
	90	P-19322	Insulator—Main Body
	91	P-20630	Gasket—Main Disch. Jet—Lead
	92	P-22071	Gasket—Idle Tube—Copper

NOTE—For parts marked (VAR.) size must be specified when ordering.

BENDIX PRODUCTS DIVISION
SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

Printed in U. S. A.

STROMBERG "EE-1" CARBURETOR

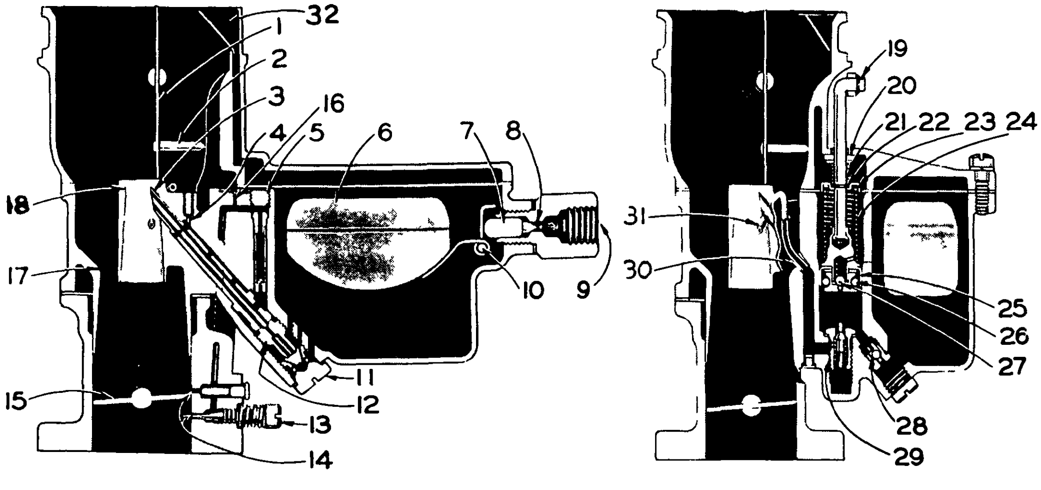
STROMBERG NO. A-17931 (CODE NO. 6-52) STUDEBAKER SYMBOL 188782

SIZE: 1" DUAL D. D. 3-HOLE FLANGE

1936
Studebaker
MODEL
PRESIDENT
3-1/16"x4-1/4"—8 cyl.

PARTS ILLUSTRATED

1 Choke Valve
2 Poppet Valve
3 Main Discharge Jet
4 High Speed Bleeder
5 Idle Air Bleeder
6 Idle Tube
7 Float
8 Float Needle Valve
9 Float Needle Valve Seat
10 Gasoline Inlet
11 Float Fulcrum Pin
12 Main Discharge Jet Plug
13 Main Metering Jet
14 Idle Needle Valve
15 Idle Discharge Holes
16 Throttle Valve
17 Primary Venturi
18 Auxiliary Venturi
19 Pump Link
20 Dust Washer
21 Dust Washer Spring
22 Retainer Washer Lock
23 Duration Spring Retainer Washer
24 Pump Duration Spring
25 Pump Piston



26 Pump Piston Expansion Spring
27 Pump Relief Valve
28 Pump Inlet Check Valve
29 Power By-Pass Jet
30. Pump Discharge Nozzle Holder
31. Pump Discharge

Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **15/32"** below top surface of float chamber (without gasket) at 3 lbs. pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level).

MAIN METERING SYSTEM—Venturi **1-1/32"**; Main Discharge Jet **No. 32-36** P-20646 **(Tool T-24967)**; High Speed Bleeder **No. 70** in body. Main Metering Jet **.047"** P-19442 **(Tool T-24924)**; Use **Tool T-19099** Screw Driver for removing main jet plug. Main metering system controls the flow of fuel up to approximately 65 to 70 M. P. H.

POWER SYSTEM—Combination Power and Pump By-Pass Jet **No. 63** P-19447. The Power Jet is brought into action at approximately 65 to 70 M. P. H. Pump piston to rest on seat of by-pass jet (less over-travel) with throttle valve opened **21/64" + — 1/64"** drill (measure with shank end of **21/64"** drill); bend pump lever fulcrum arm at ball joint end to obtain correct setting.

ACCELERATION—Pump Discharge Nozzles **No. 65** in main body; Pump capacity **9** to **12** cc.. per 10 fast strokes, and **14** to **18** c.c. per 10 slow strokes. Use **Tool T-24972.** Pump action takes place during acceleration period only.

IDLE SYSTEM—Idle Discharge holes **Nos. 56-60.** With throttle valve fully closed and **No. 60** drill in idle hole, edge of valve is located **.030" + — .004"** from **No. 60** drill; Idle Air Bleed **No. 44** in main body; Idle Tube **No. 70** P-20614. **Adjustment:** Adjust to smooth running, one barrel at a time, OUT to make richer and IN to make leaner; throttle at 7 to 8 M. P. H.

FLANGE GASKET—P-20466.

SPECIAL TOOLS REQUIRED—Use Studebaker complete Tool Kit **SER-386;** T-24733 Float Adjuster Wrench; T-24967 Main Discharge Jet Remover; T-24924 Main Metering Jet Wrench; T-24970 By-Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burrette Gauge; T-24968 Handle; T-19099 Main Jet Plug Screw Driver.

MOTOR TUNE-UP DATA

SPARK PLUG—.025".
Clean and adjust at regular intervals.

DISTRIBUTOR—.018" to .024".
Breaker gap set .018" to .024".
Replace if necessary.

VALVES—Intake: .016".
Exhaust: .016". **Engine cold.**

IGNITION TIMING—Stationary contacts to open for No. 1 cylinder when top dead center mark is in line with pointer.

SERVICE RECOMMENDATION — Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

Printed in U S A

AUTOMATIC CHOKE CONTROL — FAST IDLE

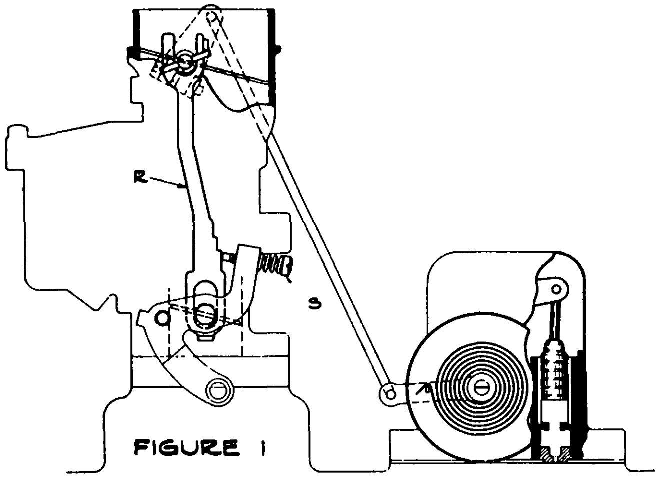


FIGURE 1

CHOKE CLOSED — FAST IDLE

The purpose of the fast idle mechanism is to prevent the throttle valve from closing tightly while cranking the engine, and also from stalling during the warming up period Figures 1 to 4 show the automatic choke control and fast idle mechanism in the various stages of operation.

To make a start, it is necessary to OPEN THROTTLE TO 20 MILES HOUR SPEED. With this action, adjustment screw "S" is lifted away from rod "R" and the tension of the thermostat spring entirely closes the choke valve. Screw then comes to rest on extreme fast idle position as shown in Fig. 1. During the cranking of the engine, the carburetor and choke control remain in this position.

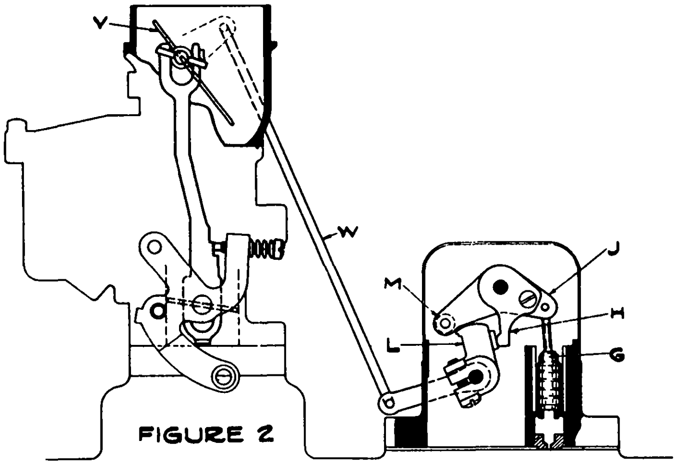


FIGURE 2

ENGINE FIRING — INTERMEDIATE IDLE

As soon as the engine begins to fire, the manifold vacuum pulls down piston "G", unlocking cam "L" and roller "M". Kick lever "H" comes in contact with cam "L" and forces the choke valve "V" open against the tension of the thermostat spring, admitting sufficient air for proper running mixture. As the engine warms up, the thermostat becomes weakened from the heat of the exhaust manifold, and the carburetor choke valve being off center is opened entirely by the inrushing air.

The fast idle rod is free to drop of its own weight and the adjusting screw comes to rest on the intermediate idle shown in Fig. 2.

CHOKE OPEN—SLOW IDLE—ENGINE HOT OR COLD

The slow and fast idle of the engine is governed by the location of idle adjusting screw "S" on the three steps of fast idle rod "R" Fig 3 shows the choke valve "V" in wide open position which it will be when a hot motor is stopped and the throttle valve allowed to close In this illustration, adjustment screw S' is shown at slow or curb idle which should be set at seven miles per hour with the engine warm As the engine becomes cold the thermostat also cools to gradually gain tension and tend to close the carburetor choke valve Pin 'T" which is fastened to the choke valve shaft makes contact with ear "U" of fast idle rod 'R", lifting the rod until its travel is stopped by adjusting screw "S".

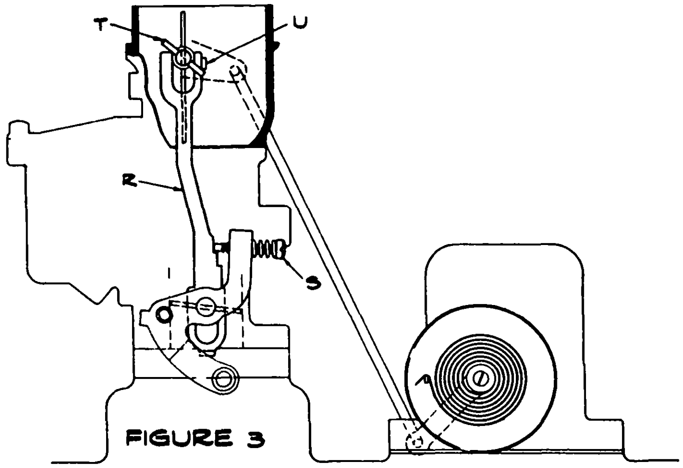


FIGURE 3

FAST IDLE ADJUSTMENT

(Note The foregoing illustration covers the carburetors which have a combination fast idle rod and cam For carburetors No A-17931 and A 18401 the fast idle rod is used in conjunction with a separat fast idle cam) **ADJUSTMENT:** With fast idle screw in contact with second step of fast idle cam (at shoulder of third step), choke valv to be open to a No 6 drill Adjust by screwing fast idle rod "IN" or "OUT" of ball joint to obtain correct choke valve opening

ENGINE FLOODED — THROTTLE WIDE OPEN

Should the engine become flooded for any reason and fail to start, it can be cleaned out by holding the accelerator pedal in wide open position and allowing the starter to turn over the engine a few times

Opening the throttle wide, revolves lever "X" so that it contacts with ear "Y" on bottom of rod "R" which forces rod down, bringing lug "U" in contact with pin "T" to force choke valve open.

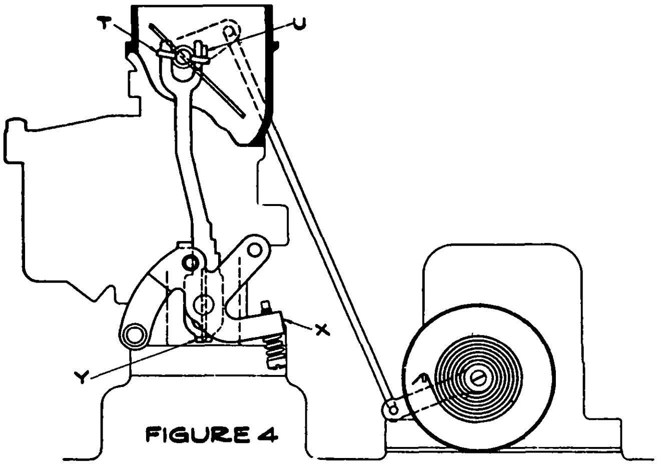
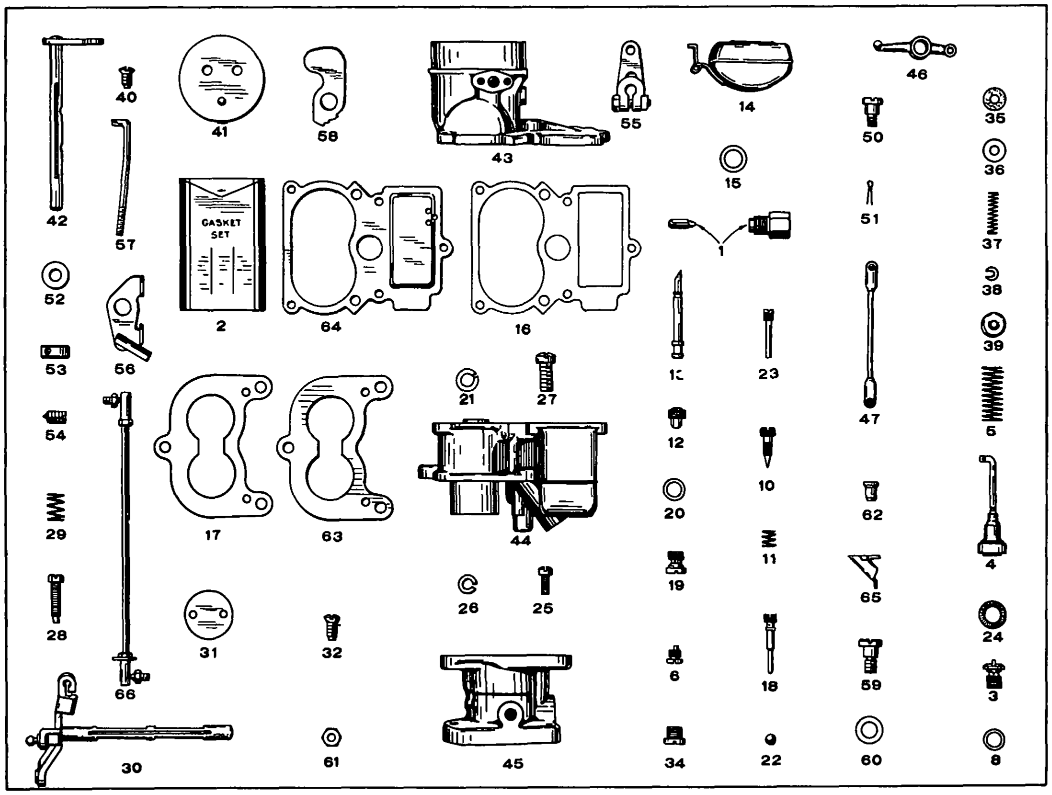


FIGURE 4



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key N .	Part No.	Part Name
	1	P-21519	Float Needle Valve and Seat- 101 ' (NOT VAR.)
	2	J-4780-G	Complete Gasket Set
	3	P-19447	Power By-Pass Jet No 63 (NOT VAR.)
	4	P-20440	Pump Piston and Link (Includes P 16960)
	4 A	P-20441	Pump Piston, Link and Spring (Complete)
	5	P-19458	Spring—Pump Duration
	6	P-18144	Pump Inlet Check Valve
	8	P-19448	Gasket—By-Pass Jet
	10	P-17402	Idle Needle Valve
	11	P-15481	Spring—Idle Needle Valve
	12	P-19442	Metering Jet **No. .047"** (VAR.)
	13	P-20646	Main Discharge Jet No 32 36 (NOT VAR.)
	14	P-19825	Float with Lever
	15	P-10666	Gasket—Float Needle Valve Seat
	16	P-19428	Gasket—Air Horn
	17	P-19432	Gasket—Main Body
	18	P-20614	Idle Tube No 70 (NOT VAR.)
	19	P-19441	Plug—Main Discharge Jet
	20	P-7338	Gasket—Main Disch Jet Plug and Check Valve Plug
	21	P-3157	Lockwasher—Main Body Attaching Screw
	22	P-18772	Lead Ball
	23	P-18125	Screw—Float Lever Fulcrum
	24	P-16960	Spring—Pump Piston Leather Expansion
	25	P-3199	Screw—Air Horn Attaching
	26	P-1791	Lockwasher—Air Horn Attaching Screw
	27	P-22025	Screw—Main Body Attaching
	28	P-21141	Screw—Throttle Stop
	29	P-15831	Spring—Throttle Stop Screw
	30	P-20719	Throttle Lever and Stem
		P-19509	Ball Connector
	31	P-19435	Throttle Valve (5°) (VAR.)
	32	P-4522	Screw—Throttle Valve Attaching
	34	P-19716	Plug—Check Valve
	35	P-17380	Washer—Felt
	36	P-17060	Washer—Splash—Pump Link
	37	P-19488	Spring—Packing Retainer
	38	P-22045	Washer—Horseshoe
	39	P-22046	Washer—Spring Retainer

NOTE—For parts marked (VAR.) size must be specified when ordering.

Bin Location	Key No.	Part No.	Part Name
	40	P 4522	Screw—Choke Valve Attaching
	41	P-20607	Choke Valve
	42	P-22033	Choke Stem and Lever
	43	P-22037	Assy —Air Horn
		P-20608	Vent—Float Chamber
	43 A	P-22036	Assy Air Horn and Valve
	44	P 22029	Assy Main Body **1-1/32** Venturi **No. 70** High Speed Bleeder, **No. 44** Idle Air Bleed—Pump Disch Tubes (VAR.)
		P-20435	Pump Disch Tube (Right) No 65 (NOT VAR.)
		P-20436	Pump Disch Tube (Left) No 65 (NOT VAR.)
		P-19430	Pump Tube Wedge
		P-20709	Pin— Fast Idle Lever Stop
	45	P 22031	Throttle Body **No. 56-60** Idle Disch Holes (VAR.)
	46	P-19427	Pump Lever
	47	P-22026	Pump Rod
	50	P-19433	Screw—Pump Lever Fulcrum
	51	P-7170	Cotter Pin—Pump Link and Fast Idle Rod
	52	P-22034	Washer- Spacer—Choke Lever
	53	P-17081	Collar —Choke Stem
	54	P-16161	Set Screw—Choke Stem Collar
	55	P-18110	Choke Lever
		P-18300	Screw—Choke Lever Clamp
		P-18299	Nut —Choke Lever Clamp Screw
	56	P 20715	Fast Idle Lever
		P-19575	Ball Joint
	57	P-22032	Fast Idle Rod
	58	P-20713	Fast Idle Cam
	59	P-20745	Screw Fast Idle Lever Fulcrum
	60	P-20744	Washer— Fast Idle Lever Fulcrum Screw
	61	P-19587	Nut—Fast Idle Rod
	62	P-15458	Plug—Idle Disch Holes No 10
	63	P-22024	Insulator Gasket—Main Body
	64	P-21738	Gasket—Air Horn
	65	P-20608	Vent—Float Chamber
			FURNISHED ONLY WHEN SPECIFIED ON ORDER
	66	P-20489	Assy —Choke Rod
		P-17060	Washer—Choke Rod Nut
		P-16639	Nut—Choke Rod Lock
		P-17761	Ball Joint

BENDIX PRODUCTS DIVISION
SOUTH BEND **OF BENDIX AVIATION CORPORATION** **INDIANA**

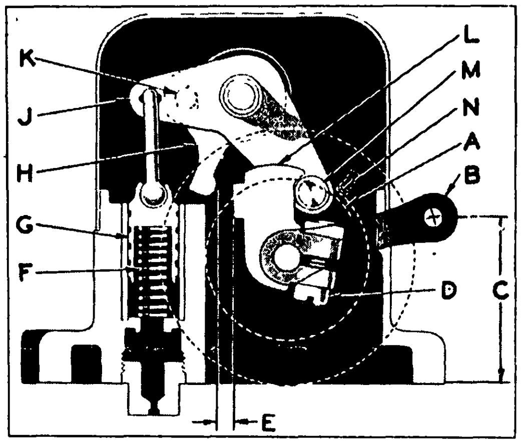
STROMBERG MODEL "C" AUTOMATIC CHOKE

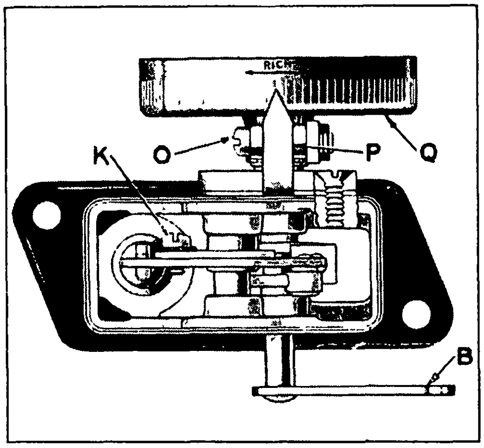
STROMBERG NO. A-17940 (CODE NO. 6-56) STUDEBAKER SYMBOL 188920

1936
STUDEBAKER
MODEL
PRESIDENT
3-1/16"x4-1/4"—8 cyl.

PARTS ILLUSTRATED

A. Thermostat
B. Control Lever
C. Distance between lever hole and base of choke. (See instructions)
D Cam Clamp Lever
E. Distance between lever and cam (See instructions)
F. Vacuum Piston Spring
G. Vacuum Piston
H Kick Lever
J. Vacuum Piston Lever
K. Kick Lever Adj. Screw.
L. Locking Cam
M Piston Lever Roller
N. Thermostat Case Prong
O Case Clamp Screw
P. Pointer
Q. Thermostat Case





GENERAL DESCRIPTION

The Stromberg Automatic Choke Control is a device that eliminates all methods of hand operated chokes. Its operation is wholly governed by vacuum and heat of the engine, which makes it positive acting under any conditions. It acts quicker than any choke can be operated by hand and allows the carburetor choke valve to open the correct amount during the warming-up period of the engine.

PRINCIPLE OF OPERATION

The thermostat "A" returns the choke valve in the carburetor to closed position when the thermostat reaches a temperature of 70°. The choke valve is closed during the cranking of the engine and held so by the locking of roller "M" against cam "L". When the engine fires and a manifold vacuum is created, vacuum piston "G" is pulled partly down, unlocking cam "L" and roller "M". As soon as the engine fires steadily and an even vacuum is present, piston travels the remaining distance. Lever "H" then comes in contact with cam "L" opening the choke a pre-determined distance against the tension of thermostat spring. The distance between lever and cam is adjustable by screw "K". When the motor has reached a water temperature of 120°, the choke valve should be in wide open position.

ADJUSTMENTS

The choke is not a delicate instrument, but when servicing, it should be given the same consideration as any fine part of the engine.

For adjusting the Automatic Choke Control for any reason whatever, it can be quickly and accurately done by following very carefully the procedure outlined below:

1. Remove automatic choke from motor by disassembling the carburetor choke rod and attaching screws.

2. Under any conditions, the thermostat "A" should be allowed to cool or warm until it has reached a temperature of 70°. This is very important, and if the car has been running, it is necessary to allow the automatic choke to stand long enough to cool off, or on the other hand, if the place or garage where the choke is to be adjusted is colder than 70°, the choke should be taken into a room of normal temperature.

3. Remove housing cover and see that all working parts operate freely.

4. With roller "M" in locked position against first notch of cam "L", distance "C" should be 1-1/16"; if it is not so, it can be readjusted by loosening screw "D" and setting accordingly.

5. Distance "E" is set at the factory to a No. 20 drill with the cam in locked position. It can be readjusted by loosening screw "K" and set to the proper distance.

6. Unhook thermostat "A" from prong "N". Loosen clamp screw "O", and revolve thermostat case "Q" so that the zero marking is under the pointer. When in this position, the hook of the thermostat should be flush with the prong.

7. Place hook on prong and revolve case 12 graduations rich. Fasten clamp screw "O" securely.

8. Piston "G" should operate freely and show no signs of sticking in any position.

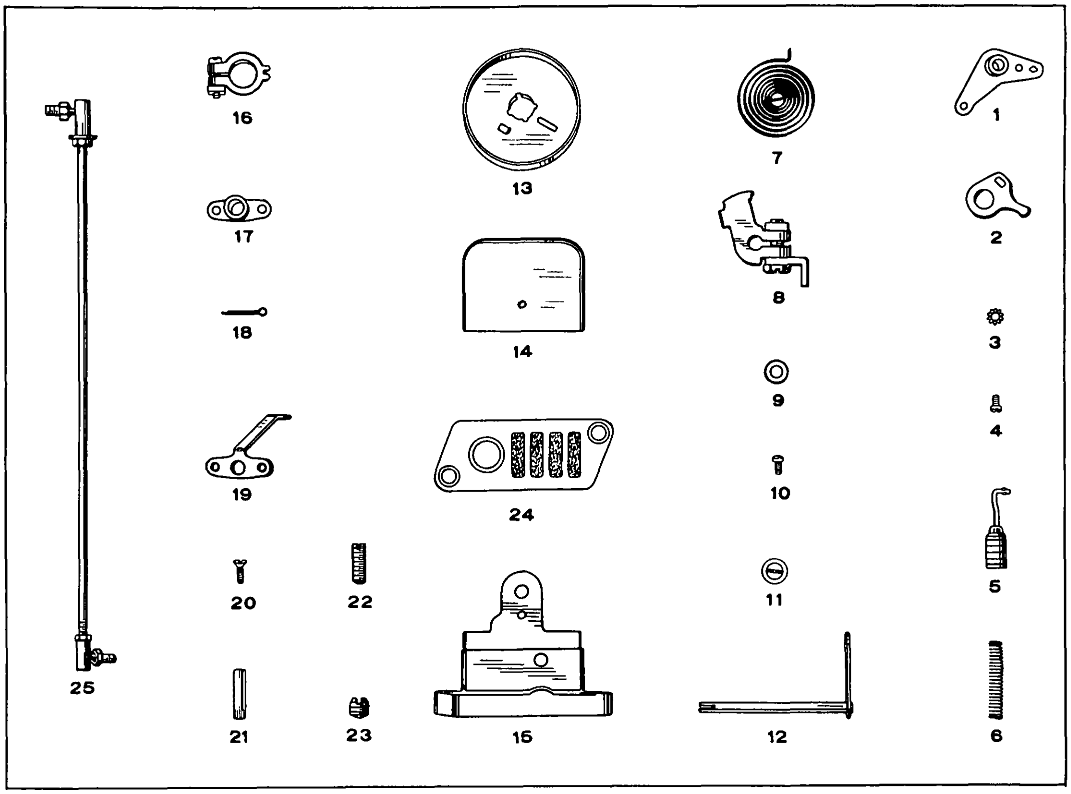
9. Assemble cover on body.

10. Assemble choke control on manifold making certain gasket is in good condition. Draw down bolts evenly.

11. Assemble connecting rod between choke control and carburetor so that there is only .006" backlash between levers. If it is necessary to adjust, loosen clamp screw of carburetor choke lever.

12. Assemble air cleaner so that it will not interfere with the carburetor choke lever.

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Key No.	Part No	Part Name
1	P 17978	Vacuum Piston Lever
2	P 17992	Kick Lever
3	P 18043	Lockwasher—Kick Lever Set Screw
4	P 2369	Set Screw—Kick Lever
5	P 17976	Vacuum Piston and Link
6	P 18318	Spring—Vacuum Piston
7	P 21608	Thermostat
8	P 18773	Kick Lever Cam and Screw
	P 18309	Cam
	P 18770	Bracket
	P 18769	Cam Clamp Screw
	P 18299	Cam Clamp Screw Nut
9	P 16426	Washer— Thermostat Stem
10	P 2866	Screw—Cover Attaching
11	P 22050	Bushing—Vacuum Reducer
12	P 19976	Thermostat Stem and Lever
13	P 17991	Housing—Thermostat
14	P 17983	Cover
15	P 19154	Main Body

NOTE—For parts marked (VAR) size must be specified when ordering.

Key No	Part No	Part Name
16	P 16893	Clamp—Thermostat Housing
	P 16894	Clamp
	P 9025	Clamp Screw
	P 4517	Clamp Screw Nut
17	P 19156	Bracket—Thermostat Housing
18	P-4	Cotter Pin—Thermostat Stem
19	P 19157	Pointer—Thermostat Adjusting
20	P 16887	Screw—Thermostat Bracket Attaching
21	P 17985	Stem—Vacuum Piston Lever
22	P 19989	Set Screw—Kick Lever Cam
23	P 12866	Lock Screw—Kick Lever Cam Set Screw

PARTS SENT SEPARATE

Key No	Part No	Part Name
24	P 19313	Gasket—Flange
25	P 19972	Choke Rod
	P 17761	Ball Joint
	P 16639	Nut—Rod Adjusting
	P 17060	Washer—Rod Adjusting Nut
	P 19973	Rod

BENDIX PRODUCTS DIVISION
SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

STROMBERG "EE-1" CARBURETOR

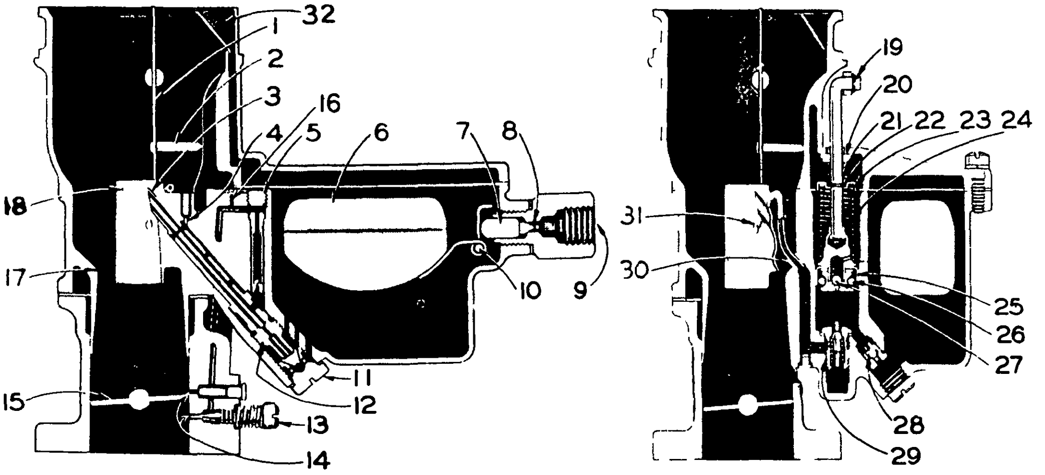
STROMBERG NO. A-17921 (CODE NO. 6-50) STUDEBAKER SYMBOL 188120

SIZE: 1" DUAL D. D. 3-HOLE FLANGE

1936
Studebaker
MODEL
PRESIDENT
3-1/16"x4-1/4"—8 cyl.

PARTS ILLUSTRATED

1 Choke Valve
2 Poppet Valve
3 Main Discharge Jet
4 High Speed Bleeder
5 Idle Air Bleeder
6 Idle Tube
7 Float
8 Float Needle Valve
9 Float Needle Valve Seat
10 Gasoline Inlet
11 Float Fulcrum Pin
12 Main Discharge Jet Plug
13 Main Metering Jet
14 Idle Needle Valve
15 Idle Discharge Holes
16 Throttle Valve
17 Primary Venturi
18 Auxiliary Venturi
19 Pump Link
20 Dust Washer
21 Dust Washer Spring
22 Retainer Washer Lock
23 Duration Spring Retainer Washer
24 Pump Duration Spring
25 Pump Piston



26 Pump Piston Expansion Spring
27 Pump Relief Valve
28 Pump Inlet Check Valve
29 Power By-Pass Jet
30 Pump Discharge Nozzle Holder
31 Pump Discharge

Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **15/32"** below top surface of float chamber (without gasket) at 3 lbs. pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level)

MAIN METERING SYSTEM—Venturi **1-1/32"**; Main Discharge Jet **No. 32-36** P-20646 **(Tool T-24967)**; High Speed Bleeder **No. 70** in body. Main Metering Jet **.047"** P-19442 **(Tool T-24924)**; Use **Tool T-19099** Screw Driver for removing main jet plug. Main metering system controls the flow of fuel up to approximately 65 to 70 M P. H.

POWER SYSTEM—Combination Power and Pump By-Pass Jet **No. 63** P-19447. The Power Jet is brought into action at approximately 65 to 70 M. P. H. Pump piston to rest on seat of by-pass jet (less over-travel) with throttle valve opened **21/64"** + — **1/64"** drill (measure with shank end of **21/64"** drill); bend pump lever fulcrum arm at ball joint end to obtain correct setting.

ACCELERATION—Pump Discharge Nozzles **No. 65** in main body, Pump capacity **9** to **12** c.c. per 10 fast strokes, and **14** to **18** c.c. per 10 slow strokes. Use **Tool T-24972.** Pump action takes place during acceleration period only.

IDLE SYSTEM—Idle Discharge holes **Nos. 56-60.** With throttle valve fully closed and **No. 60** drill in idle hole, edge of valve is located **.030"** + — **.004"** from **No. 60** drill, Idle Air Bleed **No. 44** in main body; Idle Tube **No. 70** P-20614. **Adjustment:** Adjust to smooth running, one barrel at a time, OUT to make richer and IN to make leaner; throttle at 7 to 8 M P H

FLANGE GASKET—P-20466.

SPECIAL TOOLS REQUIRED—Use Studebaker complete Tool Kit **SER-386**; T-24733 Float Adjuster Wrench; T-24967 Main Discharge Jet Remover; T-24924 Main Metering Jet Wrench; T-24970 By-Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burrette Gauge; T-24968 Handle; T-19099 Main Jet Plug Screw Driver.

MOTOR TUNE-UP DATA

SPARK PLUG—.025".
Clean and adjust at regular intervals.

DISTRIBUTOR—.018" to .024".
Breaker gap set .018" to .024".
Replace if necessary.

VALVES—Intake: .016".
Exhaust: .016". **Engine cold.**

IGNITION TIMING—Stationary contacts to open for No. 1 cylinder when top dead center mark is in line with pointer.

SERVICE RECOMMENDATION — Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

AUTOMATIC CHOKE CONTROL — FAST IDLE

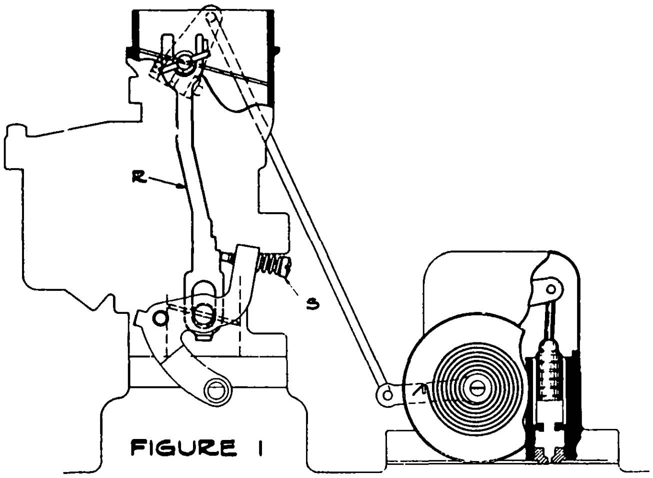


FIGURE 1

CHOKE CLOSED — FAST IDLE

The purpose of the fast idle mechanism is to prevent the throttle valve from closing tightly while cranking the engine and also from stalling during the warming up period Figures 1 to 4 show the automatic choke control and fast idle mechanism in the various stages of operation

To make a start it is necessary to OPEN THROTTLE TO 20 MILES HOUR SPEED With this action, adjustment screw "S" is lifted away from rod "R" and the tension of the thermostat spring entirely closes the choke valve Screw then comes to rest on extreme fast idle position as shown in Fig 1 During the cranking of the engine, the carburetor and choke control remain in this position

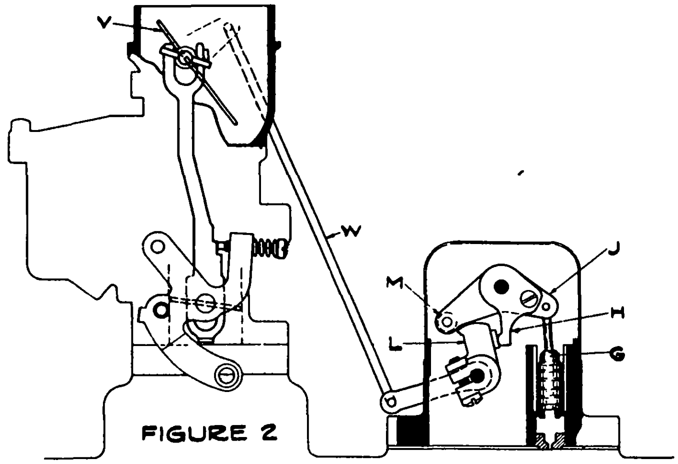


FIGURE 2

ENGINE FIRING — INTERMEDIATE IDLE

As soon as the engine begins to fire the manifold vacuum pulls down piston "G", unlocking cam "L" and roller "M" Kick lever "H" comes in contact with cam "L" and forces the choke valve "V" open against the tension of the thermostat spring, admitting sufficient air for proper running mixture As the engine warms up, the thermostat becomes weakened from the heat of the exhaust manifold, and the carburetor choke valve being off center is opened entirely by the inrushing air.

The fast idle rod is free to drop of its own weight and the adjusting screw comes to rest on the intermediate idle shown in Fig. 2.

CHOKE OPEN—SLOW IDLE—ENGINE HOT OR COLD

The slow and fast idle of the engine is governed by the location of idle adjusting screw S on the three steps of fast idle rod "R". Fig 3 shows the choke valve "V" in wide open position which it will be when a hot motor is stopped and the throttle valve allowed to close In this illustration, adjustment screw "S" is shown at slow or curb idle which should be set at seven miles per hour with the engine warm As the engine becomes cold the thermostat also cools to gradually gain tension and tend to close the carburetor choke valve Pin "T" which is fastened to the choke valve shaft makes contact with ear "U" of fast idle rod "R", lifting the rod until its travel is stopped by adjusting screw "S".

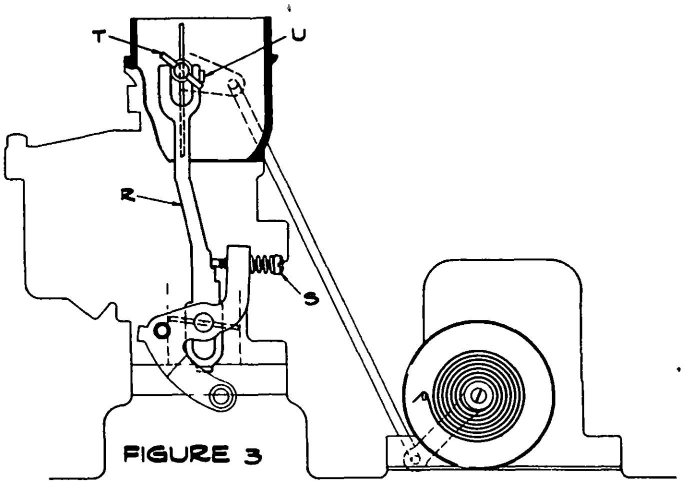


FIGURE 3

FAST IDLE ADJUSTMENT

With fast idle screw in contact with center step of fast idle link with cam, choke valve to be open to a No 38 drill Adjust by bending choke stem pin

ENGINE FLOODED — THROTTLE WIDE OPEN

Should the engine become flooded for any reason and fail to start, it can be cleaned out by holding the accelerator pedal in wide open position and allowing the starter to turn over the engine a few times.

Opening the throttle wide, revolves lever "X" so that it contacts with ear "Y" on bottom of rod "R" which forces rod down, bringing lug "U" in contact with pin "T" to force choke valve open.

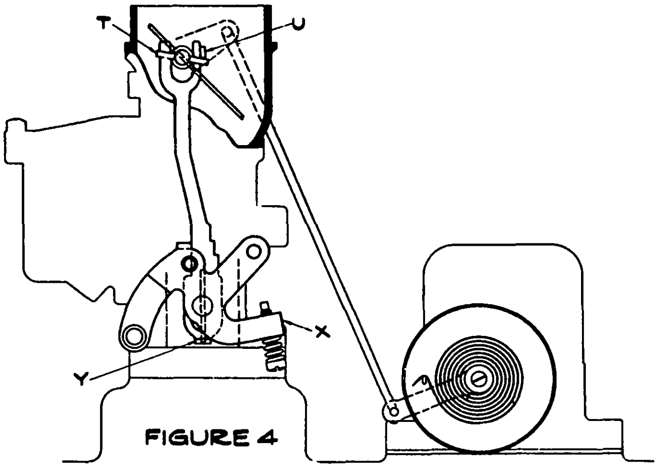
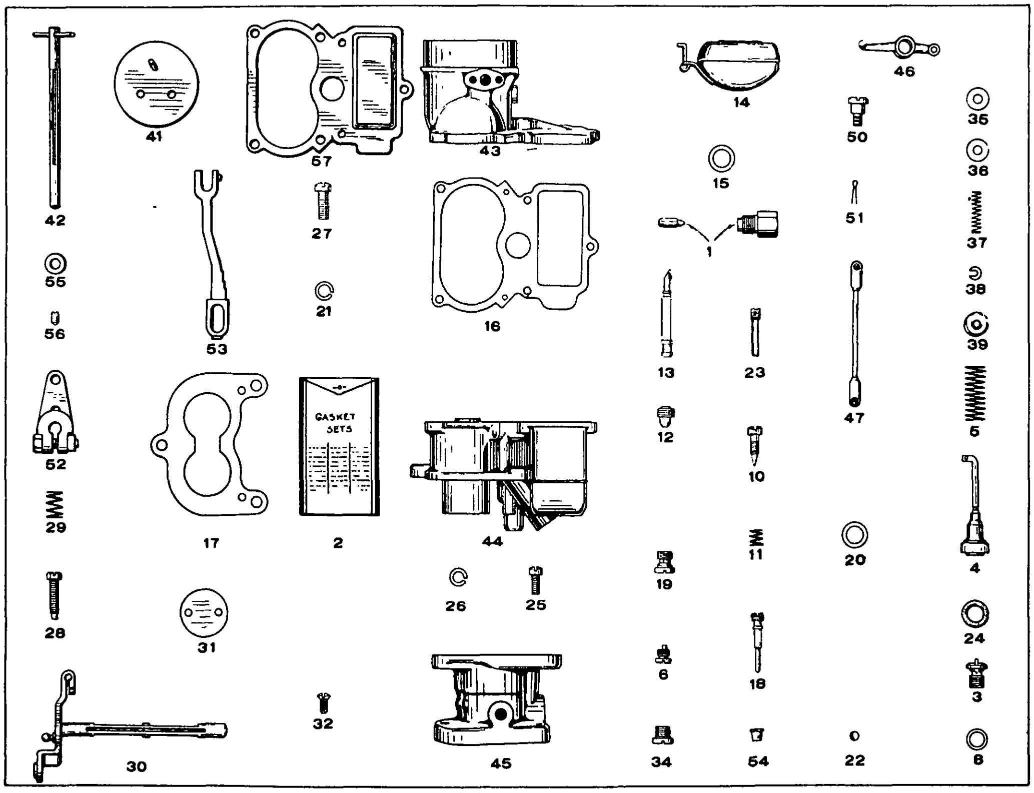


FIGURE 4



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No.	Part No.	Part Name
	1	**P-21519**	Float Needle Valve and Seat .101" ....**(NOT VAR.)**
	2	**J-4780-G**	Complete Gasket Set
	3	**P-19447**	Power By-Pass Jet No 63 **(NOT VAR.)**
	4	**P-20440**	Pump Piston and Link **(Includes P-16960)**
	4-A	**P-20441**	Assy.—Pump Piston Link & Spring (Complete)
	5	**P-19458**	Spring—Pump Duration
	6	**P-18144**	Pump Inlet Check Valve
	8	**P-19448**	Gasket—By-Pass Jet
	10	**P-17402**	Idle Needle Valve
	11	**P-15481**	Spring—Idle Needle Valve
	12	**P-19442**	Metering Jet **.047"** **(VAR.)**
	13	**P-20646**	Main Discharge Jet No. 32-36 **(NOT VAR.)**
	14	**P-19825**	Float with Lever
	15	**P-10666**	Gasket—Float Needle Valve Seat
	16	**P-19428**	Gasket—Air Horn
	17	**P-19432**	Gasket—Main Body
	18	**P-20614**	Idle Tube No. 70 **(NOT VAR.)**
	19	**P-19441**	Plug—Main Discharge Jet
	20	**P-7338**	Gasket—M. Disch. Jet & Check Valve Plug
	21	**P-3157**	Lockwasher—Main Body Attaching Screw
	22	**P-18772**	Lead Ball
	23	**P-18125**	Screw—Float Fulcrum
	24	**P-16960**	Spring—Pump Piston Leather Expansion
	25	**P-3199**	Screw—Air Horn Attaching
	26	**P-1791**	Lockwasher—Air Horn Attaching Screw
	27	**P-709**	Screw—Main Body Attaching
	28	**P-21141**	Screw—Idle Adjusting
	29	**P-15831**	Spring—Idle Adjusting Screw
	30	**P-20497**	Throttle Lever and Stem
		P-19509	Ball Joint Connector
	31	**P-19435**	Throttle Valve (5°) **(VAR.)**
	32	**P-4522**	Screw—Throttle Val. and Choke Val. Attach.
	34	**P-19716**	Plug—Check Valve

NOTE—For parts marked (VAR.) siz must be specified when rdering.

Bin Location	Key No.	Part No.	Part Name
	35	**P-17380**	Washer—Felt Pump Link
	36	**P-17060**	Washer—Splash—Pump Link
	37	**P-19488**	Spring—Felt Retainer
	38	**P-22045**	Washer Horseshoe
	39	**P-22046**	Washer Spring Retainer
	41	**P-20607**	Choke Valve
	42	**P-20610**	Choke Stem and Pin
		P-19501	Pin
	43	**P-21746-T**	Air Horn
		P-21747	Air Horn and Bushing and Vent
		P-17996	Bushing
		P-20608	Vent
	43-A	**P-21740**	Assy.—Air Horn and Valve
	44	**P-20601**	Main Body—**1-1/32"** Venturi **No. 70** H. S. Bleed **No. 44** Idle Air Bleed—**No. 65** Pump Discharge Tubes **(VAR.)**
		P-20435	Pump Disch. Tube (Right) No. 65 ... **(NOT VAR.)**
		P-20436	Pump Disch. Tube (Left) No. 65 .... **(NOT VAR.)**
		P-19430	Wedge—Pump Tube
	45	**P-19519**	Throttle Body—**No. 56-60** Idle Dis. Holes **(VAR.)**
		P-22000	Throttle Body
		P-19502	Bushing—Throttle Stem
	46	**P-19533**	Pump Lever
	47	**P-19420**	Pump Rod
	50	**P-20611**	Screw—Pump Lever Fulcrum
	51	**P-7170**	Cotter Pin—Pump Lever and Link
	52	**P-18110**	Choke Lever
		P-18190	Choke Lever
		P-18300	Choke Lever Clamp Screw
		P-18299	Choke Lever Clamp Screw Nut
	53	**P-20490**	Fast Idle Link
	54	**P-15458**	Plug—Idle—Disch. Channel
	55	**P-17081**	Collar—Choke Stem
	56	**P-16161**	Screw—Choke Stem Collar Set
	57	**P-21738**	Gasket—Air Horn

BENDIX PRODUCTS DIVISION

SOUTH BEND **OF BENDIX AVIATION CORPORATION** **INDIANA**

Printed in U. S. A.

STROMBERG "EE-1" CARBURETOR

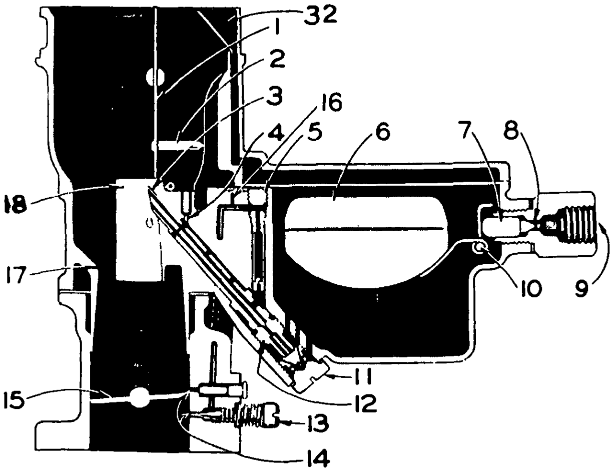
1935
Studebaker
MODELS
"C" PRESIDENT
"B" COMMANDER
3-1/16"x4-1/4"—8 cyl.

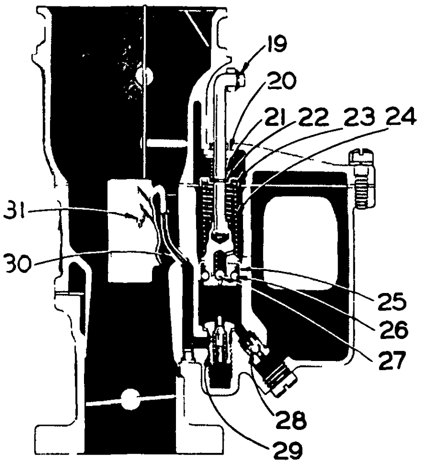
STROMBERG NO. A-17661 (CODE NO. 6-10) STUDEBAKER SYMBOL 184717

SIZE: 1" DUAL D. D. 3-HOLE FLANGE

PARTS ILLUSTRATED

1 Choke Valve
2 Poppet Valve
3 Main Discharge Jet
4 High Speed Bleeder
5 Idle Air Bleeder
6 Idle Tube
7 Float
8 Float Needle Valve
9 Float Needle Valve Seat
10 Gasoline Inlet
11 Float Fulcrum Pin
12 Main Discharge Jet Plug
13 Main Metering Jet
14 Idle Needle Valve
15 Idle Discharge Holes
16 Throttle Valve
17 Primary Venturi
18 Auxiliary Venturi
19 Pump Link
20 Dust Washer
21 Dust Washer Spring
22 Retainer Washer Lock
23 Duration Spring Retainer Washer
24 Pump Duration Spring
25 Pump Piston
26 Pump Piston Expansion Spring
27 Pump Relief Valve
28 Pump Inlet Check Valve
29 Power By Pass Jet
30 Pump Discharge Nozzle Holder
31 Pump Discharge





Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **15 32"** below top surface of float chamber (without gasket) at 3 lbs pressure (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level)

MAIN METERING SYSTEM—Venturi **1-1/32";** Main Discharge Jet **No. 32-36** P-20646 **(Tool T-24967);** High Speed Bleeder **No. 70** in body Main Metering Jet **.047"** P-19442 **(Tool T-24924);** Use **Tool T-19099** Screw Driver for removing main jet plug Main metering system controls the flow of fuel up to approximately 65 to 70 M P H

POWER SYSTEM—Combination Power and Pump By Pass Jet **No. 63** P-19447 The Power Jet is brought into action at approximately 65 to 70 M P H Pump piston to rest on seat of by-pass jet (less over-travel) with throttle valve opened **21/64" + — 1/64"** drill (measure with shank end of **21 64"** drill) bend pump lever fulcrum arm at ball joint end to obtain correct setting

ACCELERATION--Pump Discharge Nozzles **No. 65** in main body, Pump capacity **9** to **12** c c per 10 fast strokes and **14** to **18** c c per 10 slow strokes Use **Tool T-24972.** Pump action takes place during acceleration period only

IDLE SYSTEM—Idle Discharge holes **Nos. 56-60.** With throttle valve fully closed and **No. 60** drill in idle hole, edge of valve is located **.030" + — .004"** from **No. 60** drill Idle Air Bleed **No. 44** in main body, Idle Tube **No. 70** P-20614 **Adjustment:** Adjust to smooth running, one barrel at a time, OUT to make richer and IN to make leaner, throttle at 7 to 8 M P H

FLANGE GASKET—P-20466

SPECIAL TOOLS REQUIRED--Use Studebaker complete Tool Kit **SER-386;** T-24733 Float Adjuster Wrench, T-24967 Main Discharge Jet Remover, T-24924 Main Metering Jet Wrench; T-24970 By-Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burrette Gauge, T-24968 Handle, T-19099 Main Jet Plug Screw Driver.,

MOTOR TUNE-UP DATA

SPARK PLUG—.025".
Clean and adjust at regular intervals.

DISTRIBUTOR—.018" to .024".
Breaker gap set .018" to .024".
Replace if necessary.

VALVES—Intake: .004".
Exhaust: .006" **Engine hot.**

IGNITION TIMING—Stationary contacts to open for No. 1 cylinder when top dead center mark is in line with pointer.

SERVICE RECOMMENDATION — Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

AUTOMATIC CHOKE CONTROL — FAST IDLE

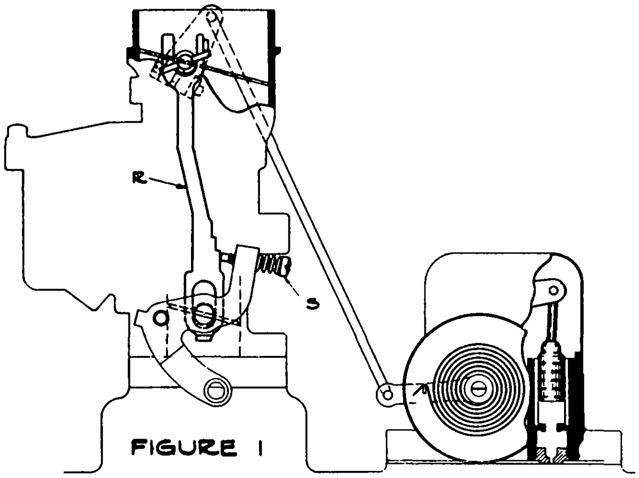


FIGURE 1

CHOKE CLOSED — FAST IDLE

The purpose of the fast idle mechanism is to prevent the throttle valve from closing tightly while cranking the engine and also from stalling during the warming up period Figures 1 to 4 show the automatic choke control and fast idle mechanism in the various stages of operation

To make a start it is necessary to OPEN THROTTLE TO 20 MILES HOUR SPEED With this action adjustment screw 'S is lifted away from rod R and the tension of the thermostat spring entirely closes the choke valve Screw then comes to rest on extreme fast idle position as shown in Fig 1 During the cranking of the engine the carburetor and choke control remain in this position

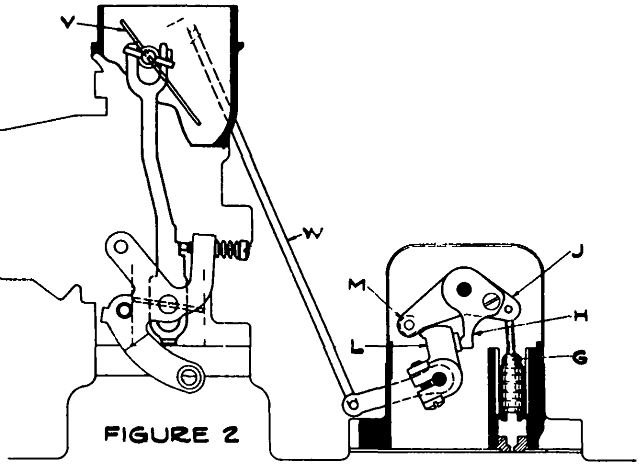


FIGURE 2

ENGINE FIRING — INTERMEDIATE IDLE

As soon as the engine begins to fire the manifold vacuum pulls down piston G' unlocking cam L and roller M Kick lever 'H' comes in contact with cam 'L' and forces the choke valve V open against the tension of the thermostat spring admitting sufficient air for proper running mixture As the engine warms up the thermostat becomes weakened from the heat of the exhaust manifold and the carburetor choke valve being off center is opened entirely by the inrushing air

The fast idle rod is free to drop of its own weight and the adjusting screw comes to rest on the intermediate idle shown in Fig 2

CHOKE OPEN—SLOW IDLE—ENGINE HOT OR COLD

The slow and fast idle of the engine is governed by the location of idle adjusting screw S" on the three steps of fast idle rod "R" Fig 3 shows the choke valve "V" in wide open position which it will be when a hot motor is stopped and the throttle valve allowed to close In this illustration, adjustment screw S" is shown at slow or curb idle which should be set at seven miles per hour with the engine warm As the engine becomes cold the thermostat also cools to gradually gain tension and tend to close the carburetor choke valve Pin "T" which is fastened to the choke valve shaft makes contact with ear "U" of fast idle rod 'R" lifting the rod until its travel is stopped by adjusting screw 'S"

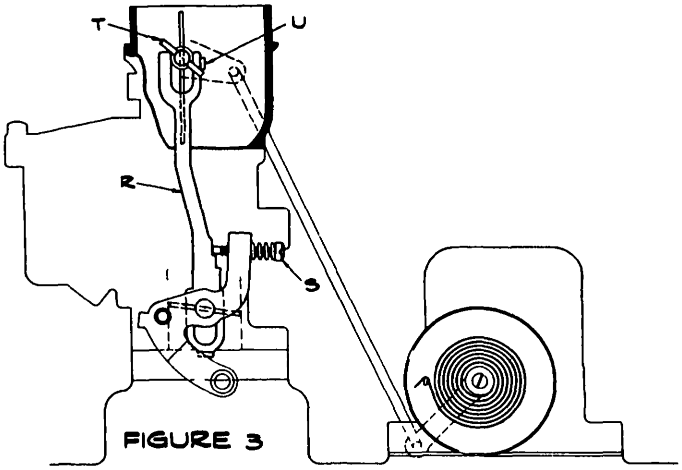


FIGURE 3

FAST IDLE ADJUSTMENT

With fast idle screw in contact with center step of fast idle link with cam choke valve to be open to a No 38 drill Adjust by bending choke stem pin

ENGINE FLOODED — THROTTLE WIDE OPEN

Should the engine become flooded for any reason and fail to start, it can be cleaned out by holding the accelerator pedal in wide open position and allowing the starter to turn over the engine a few times

Opening the throttle wide, revolves lever "X" so that it contacts with ear 'Y" on bottom of rod "R" which forces rod down, bringing lug 'U" in contact with pin "T" to force choke valve open

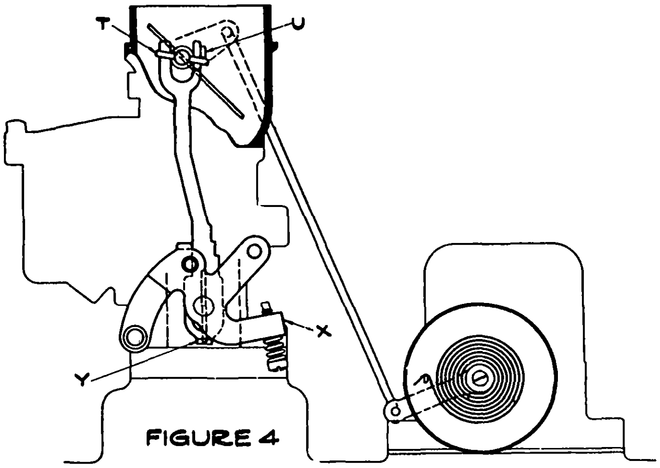
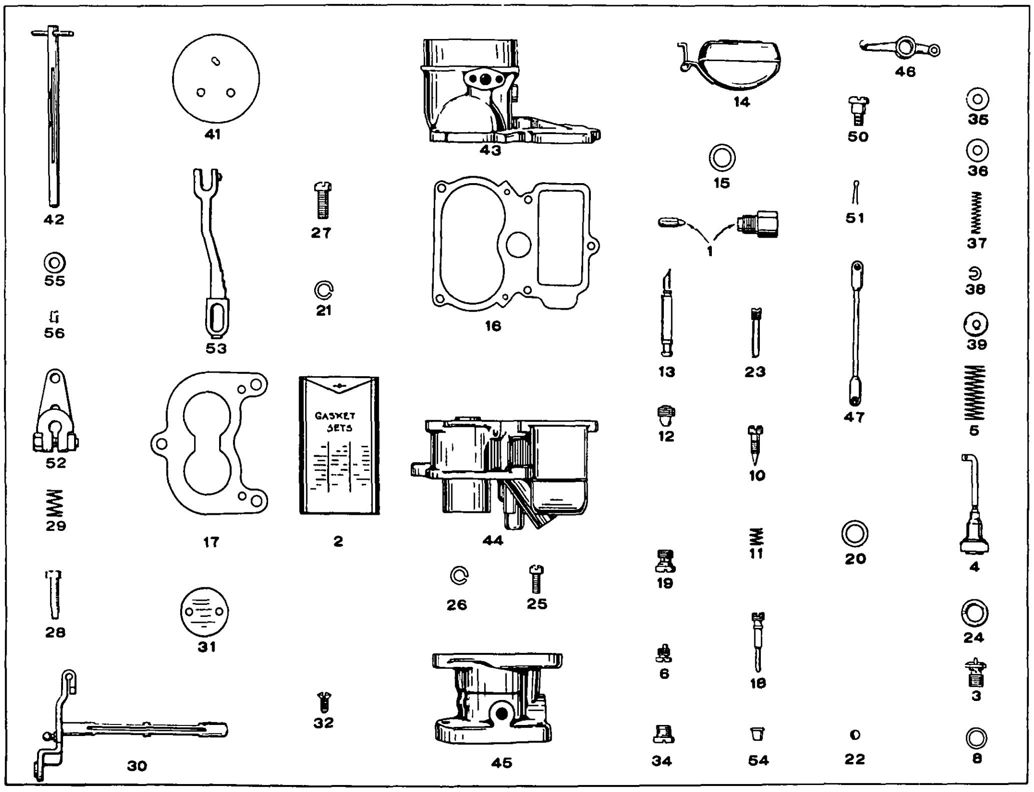


FIGURE 4

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No.	Part No.	Part Name
	1	**P-21519**	Float Needle Valve and Seat 101" **(NOT VAR.)**
	2	**J-4883-G**	Complete Gasket Set
	3	**P-19447**	Power By Pass Jet No 63 **(NOT VAR.)**
	4	**P-20440**	Pump Piston and Link **(Includes P 16960)**
	4A	**P-20441**	Assy —Pump Piston Link & Spring (Complete)
	5	**P-19458**	Spring—Pump Duration
	6	**P-18144**	Pump Inlet Check Valve
	8	**P-19448**	Gasket –By Pass Jet
	10	**P-17402**	Idle Needle Valve
	11	**P-15481**	Spring Idle Needle Valve
	12	**P-19442**	Metering Jet **.047"** **(VAR).**
	13	**P-20646**	Main Disch Jet No 32 36 **(NOT VAR.)**
	14	**P-19825**	Float with Lever
	15	**P-10666**	Gasket--Float Needle Valve Seat
	16	**P-19428**	Gasket--Air Horn
	17	**P-19432**	Gasket– Main Body
	18	**P-20614**	Idle Tube No 70 **(NOT VAR.)**
	19	**P-19441**	Plug– Main Disch Jet
	20	**P-7338**	Gasket Main Disch Jet and Check Valve Plug
	21	**P-3157**	Lockwasher– Main Body Attaching Screw
	22	**P-18772**	Lead Ball
	23	**P-18125**	Screw –Float Fulcrum
	24	**P-16960**	Spring --Pump Piston Leather Expansion
	25	**P-3199**	Screw—Air Horn Attaching
	26	**P-1791**	Lockwasher—Air Horn Attaching Screw
	27	**P-709**	Screw –Main Body Attaching
	28	**P-21141**	Screw—Idle Adjusting
	29	**P-15831**	Spring –Idle Adjusting Screw
	30	**P-20497**	Throttle Lever and Stem
		P-19509	Ball Joint Connector
	31	**P-19435**	Throttle Valve (5°) **(VAR.)**
	32	**P-4522**	Screw—Throt Valve & Choke Valve Attaching
	34	**P-19716**	Plug—Check Valve
	35	**P-17380**	Washer—Felt –Pump Link
	36	**P-17060**	Washer –Splash—Pump Link
	37	**P-19488**	Spring—Felt Retainer
	38	**P-22045**	Washer –Horseshoe
	39	**P-22046**	Washer –Spring Retainer
	41	**P-20607**	Choke Valve
	42	**P-20610**	Choke Stem and Pin
		P-19501	Pin
	43	**P-20485-T**	Air Horn
		P-20486	Air Horn and Bushing and Vent
		P-17996	Bushing
		P-20608	Vent
	43-A	**P-20487**	Assy —Air Horn and Valve
	44	**P-20601**	Main Body **1-1/32"** Venturi **No. 70** High Speed Bleed **No. 44** Idle Air Bleed **No. 65** Pump Discharge Tubes **(VAR.)**
		P-20435	Pump Disch Tube (Right) No 65 **(NOT VAR.)**
		P-20436	Pump Disch Tube (Left) No 65 **(NOT VAR.)**
		P-19430	Wedge—Pump Tube
	45	**P-19519**	Throttle Body—**No. 56-60** Idle Disch Holes **(VAR.)**
		P-22000	Throttle Body
		P-19502	Bushing– Throttle Stem
	46	**P-19533**	Pump Lever
	47	**P 19420**	Pump Rod
	50	**P-20611**	Screw--Pump Lever Fulcrum
	51	**P-7170**	Cotter Pin—Pump Lever and Link
	52	**P-18110**	Choke Lever
		P-18109	Choke Lever
		P 18300	Choke Lever Clamp Screw
		P-18299	Choke Lever Clamp Screw Nut
	53	**P-20490**	Fast Idle Link
	54	**P-15458**	Plug—Idle—Disch Channel
	55	**P-17081**	Collar—Choke Stem
	56	**P-16161**	Screw –Choke Stem Collar Set

NOTE—For parts marked (VAR.) size must be specified when ordering.

BENDIX PRODUCTS DIVISION
SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

STROMBERG MODEL "C" AUTOMATIC CHOKE

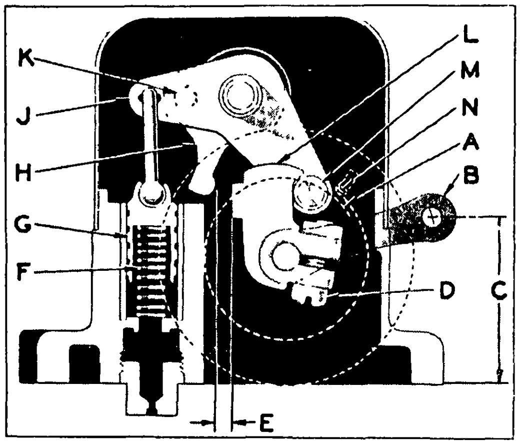
STROMBERG NO. A-17590 (CODE NO. 6-5A) STUDEBAKER SYMBOL 181468

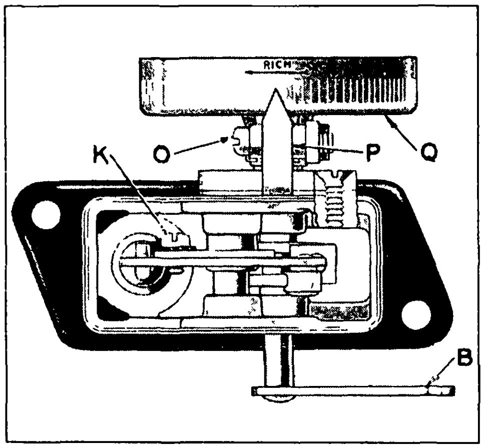
(FOR USE WITH STUDEBAKER EE-1 CARBURETOR NOS. A-17661 & A-17921

1935-36
STUDEBAKER
MODELS
1935 "C" PRES.
1936 "B" COM.
• 1936—PRES.
3-1/16"x4-1/4"—8 cyl.

PARTS ILLUSTRATED

A Thermostat
B. Control Lever
C. Distance between lever hole and base of choke (See instructions)
D. Cam Clamp Lever
E. Distance between lever and cam (See instructions)
F. Vacuum Piston Spring
G. Vacuum Piston
H. Kick Lever
J. Vacuum Piston Lever
K. Kick Lever Adj. Screw.
L. Locking Cam
M Piston Lever Roller
N. Thermostat Case Prong
O. Case Clamp Screw
P. Pointer
Q Thermostat Case





GENERAL DESCRIPTION

The Stromberg Automatic Choke Control is a device that eliminates all methods of hand operated chokes. Its operation is wholly governed by vacuum and heat of the engine, which makes it positive acting under any conditions. It acts quicker than any choke can be operated by hand and allows the carburetor choke valve to open the correct amount during the warming-up period of the engine.

PRINCIPLE OF OPERATION

The thermostat "A" returns the choke valve in the carburetor to closed position when the thermostat reaches a temperature of 70°. The choke valve is closed during the cranking of the engine and held so by the locking of roller "M" against cam "L". When the engine fires and a manifold vacuum is created, vacuum piston "G" is pulled partly down, unlocking cam "L" and roller "M". As soon as the engine fires steadily and an even vacuum is present, piston travels the remaining distance. Lever "H" then comes in contact with cam "L" opening the choke a pre-determined distance against the tension of thermostat spring. The distance between lever and cam is adjustable by screw "K". When the motor has reached a water temperature of 120°, the choke valve should be in wide open position.

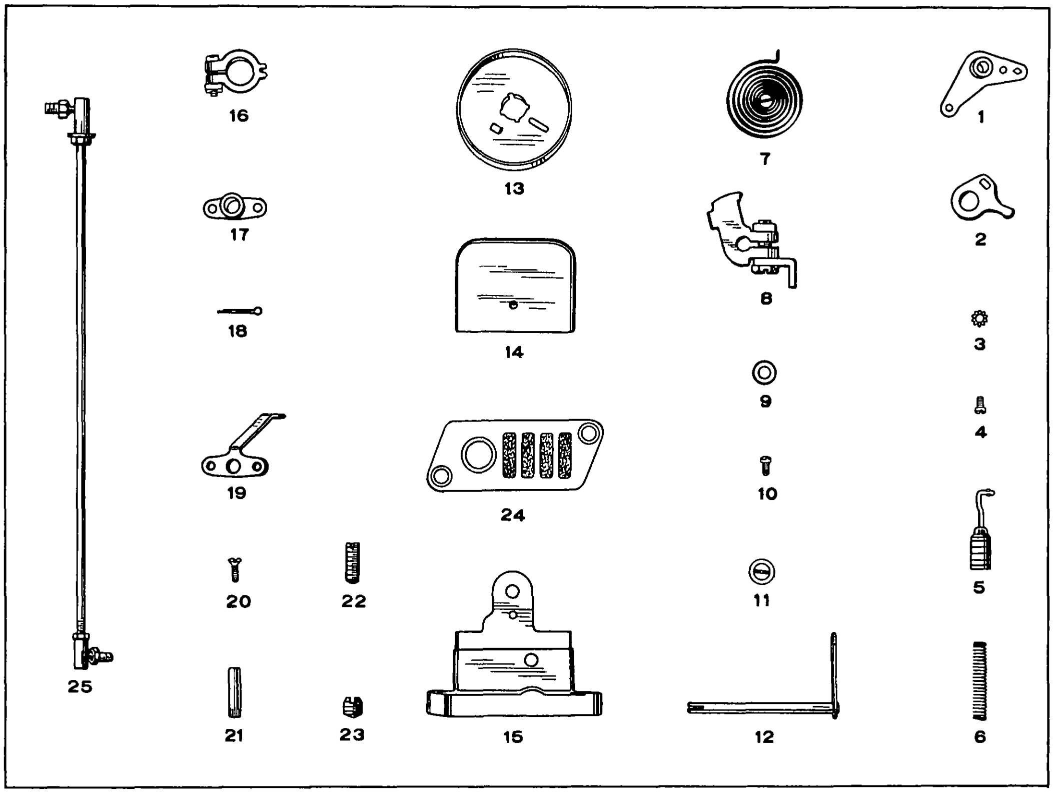
ADJUSTMENTS

The choke is not a delicate instrument, but when servicing, it should be given the same consideration as any fine part of the engine.

For adjusting the Automatic Choke Control for any reason whatever, it can be quickly and accurately done by following very carefully the procedure outlined below:

1. Remove automatic choke from motor by disassembling the carburetor choke rod and attaching screws.
2. Under any conditions, the thermostat "A" should be allowed to cool or warm until it has reached a temperature of 70°. This is very important, and if the car has been running, it is necessary to allow the automatic choke to stand long enough to cool off, or on the other hand, if the place or garage where the choke is to be adjusted is colder than 70°, the choke should be taken into a room of normal temperature.
3. Remove housing cover and see that all working parts operate freely.
4. With roller "M" in locked position against first notch of cam "L", distance "C" should be 1-1/16"; if it is not so, it can be readjusted by loosening screw "D" and setting accordingly.
5. Distance "E" is set at the factory to a No. 20 drill with the cam in locked position. It can be readjusted by loosening screw "K" and set to the proper distance.
6. Unhook thermostat "A" from prong "N". Loosen clamp screw "O", and revolve thermostat case "Q" so that the zero marking is under the pointer. When in this position, the hook of the thermostat should be flush with the prong.
7. Place hook on prong and revolve case 12 graduations rich. Fasten clamp screw "O" securely.
8. Piston "G" should operate freely and show no signs of sticking in any position.
9. Assemble cover on body.
10. Assemble choke control on manifold making certain gasket is in good condition. Draw down bolts evenly.
11. Assemble connecting rod between choke control and carburetor so that there is only .006" backlash between levers. If it is necessary to adjust, loosen clamp screw of carburetor choke lever.
12. Assemble air cleaner so that it will not interfere with the carburetor choke lever.

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Key No	Part No	Part Name
1	P 17978	Vacuum Piston Lever
2	P 17992	Kick Lever
3	P 18043	Lockwasher—Kick Lever Set Screw
4	P 2369	Set Screw—Kick Lever
5	P 17976	Vacuum Piston and Link
6	P 18318	Spring—Vacuum Piston
7	P 21608	Thermostat
8	P 18773	Kick Lever Cam and Screw
	P 18309	Cam
	P 18770	Bracket
	P 18769	Cam Clamp Screw
	P 18299	Cam Clamp Screw Nut
9	P 16426	Washer—Thermostat Stem
10	P 2866	Screw—Cover Attaching
11	P 22050	Bushing—Vacuum Reducer
12	P 19976	Thermostat Stem and Lever
13	P 17991	Housing—Thermostat
14	P 17983	Cover
15	P 19154	Main Body
16	P 16893	Clamp—Thermostat Housing
	P 16894	Clamp
	P 9025	Clamp Screw
	P 4517	Clamp Screw Nut
17	P 19156	Bracket—Thermostat Housing
18	P 4	Cotter Pin—Thermostat Stem
19	P 19157	Pointer—Thermostat Adjusting
20	P 16887	Screw—Thermostat Bracket Attaching
21	P 17985	Stem—Vacuum Piston Lever
22	P 19989	Set Screw—Kick Lever Cam
23	P 12866	Lock Screw—Kick Lever Cam Set Screw
		PARTS SENT SEPARATE
24	P 19313	Gasket—Flange
25	P 19972	Choke Rod
	P 17761	Ball Joint
	P 16639	Nut—Rod Adjusting
	P 17060	Washer—Rod Adjusting Nut
	P 19973	Rod

NOTE—For parts marked (VAR.) size must be specified when ordering.

BENDIX PRODUCTS DIVISION
SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

Printed in U S A

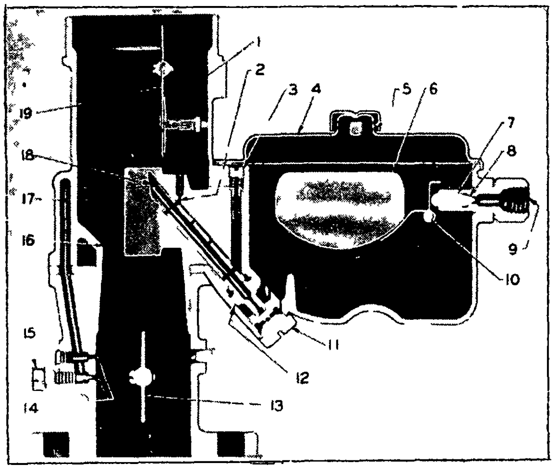
STROMBERG "EX-23" CARBURETOR

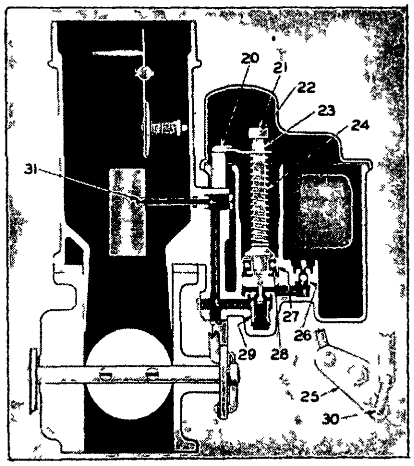
STROMBERG NO A 18222 (CODE NO. 6 49A) STUDEBAKER SYMBOL 187707

SIZE: 1¼" D. D. S.A.E 2-11/16" FLANGE CENTERS **REPLACE WITH BXO 25 EQPT. J 5470**

1936
Studebaker
MODEL
"A" DICTATOR"
3¼"x4⅜"—6 cyl.

PARTS ILLUSTRATED





1 Poppet Valve
2 High Speed Bleed
3 Idle Tube
4 Float Chamber Cover
5 Float Chamber Vent
6 Float
7 Float Needle Valve
8 Float Needle Valve Seat
9 Gasoline Inlet
10 Float Fulcrum Pin
11 Main Discharge Jet Plug
12 Main Metering Jet
13 Throttle Valve
14 Idle Discharge Holes
15 Idle Needle Valve
16 Primary Venturi
17 Auxiliary Venturi
18 Main Discharge Jet
19 Choke Valve
20 Pump Rod
21 Power Adjustment Nut
22 Cotter Pin
23 Piston Connecting Rod
24 Connecting Rod Spring
25 Pump Lever
26 Check Valve
27 Pump Piston
28 Pump Piston Spring
29 Power By Pass Jet
30 Pump Lever Link
31 Pump Discharge Nozzle

Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **5/8"** below top surface of float chamber (without gasket) at 3 lbs pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level)

MAIN METERING SYSTEM—Venturi **1-5/32";** Main Discharge Jet **No. 28-32** P 21687 **(Tool T-24967).** Use new P-20630 Lead Gasket assembled on lower shoulder of main discharge jet, High Speed Bleeder **No. 70** in body Main Metering Jet **.058"** P 17004 **(Tool T-23844);** Use **Tool T-19099** Screw Driver for removing main jet plug Main metering system controls the flow of fuel up to approximately 65 to 70 M P H

POWER SYSTEM—Combination Power and Pump By-Pass Jet **4 No. 56** P 18149 The Power Jet is brought into action at approximately 65 to 70 M P H Pump piston to rest on seat of by pass jet (less over travel) with throttle valve opened **7/16"** + — **1/64"** drill (maximum pump setting) (measure with shank end of **7/16"** drill), adjust pump stem nut to obtain correct setting

ACCELERATION—Pump Discharge Nozzle **No. 66** P 18126 Pump capacity **12** to **14** c c per **10** fast strokes and **17** to **19** c c per 10 slow strokes with pump rod link set in middle setting Use **Tool T-24972.** Pump action takes place during acceleration period only

IDLE SYSTEM—Idle Discharge holes **Nos. 56-58.** With throttle valve fully closed and **No. 58** drill in idle hole edge of valve is located **.012"** + — **.004"** from **No. 58** drill Idle Air Bleed **No. 70** in idle tube, **No. 55** in throttle body P 21714 Idle Tube **No. 52** P-21688 **Adjustment:** Adjust to smooth running OUT to make richer and IN to make leaner throttle at 7 to 8 M P H

FLANGE GASKET—P 4752

SPECIAL TOOLS REQUIRED—Use Studebaker complete Tool Kit **SER-386;** T-24733 Float Adjuster Wrench, T 24967 Main Discharge Jet Remover, T 23844 Main Metering Jet Wrench, T 24970 By Pass Jet and Check Valve Tester, T 24972 Pump Capacity Burrette Gauge, T 24968 Handle, T-19099 Main Jet Plug Screw Driver

MOTOR TUNE-UP DATA

SPARK PLUG—.025".
Clean and adjust at regular intervals.

DISTRIBUTOR—.020".
Breaker gap set .020".
Replace if necessary.

VALVES—Intake: .016".
Exhaust: .016". **Engine cold.**

IGNITION TIMING—Breaker contacts to open for No. 1 cylinder when flywheel mark is in line with indicator on housing.

SERVICE RECOMMENDATION — Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

GENERAL DESCRIPTION AND ADJUSTMENT OF AUTOMATIC CHOKE CONTROL AND FAST IDLE MECHANISM

In the Stromberg EX-23 Model carburetor, the automatic chöke control with the exception of the thermostat unit "R" is built into the throttle valve body. The thermostat is attached to the manifold riser where it can absorb heat from the exhaust gasses which govern its tension. The design of the automatic choke control in the EX-23 carburetor does not require the choke control be "locked" in closed position while cranking the engine.

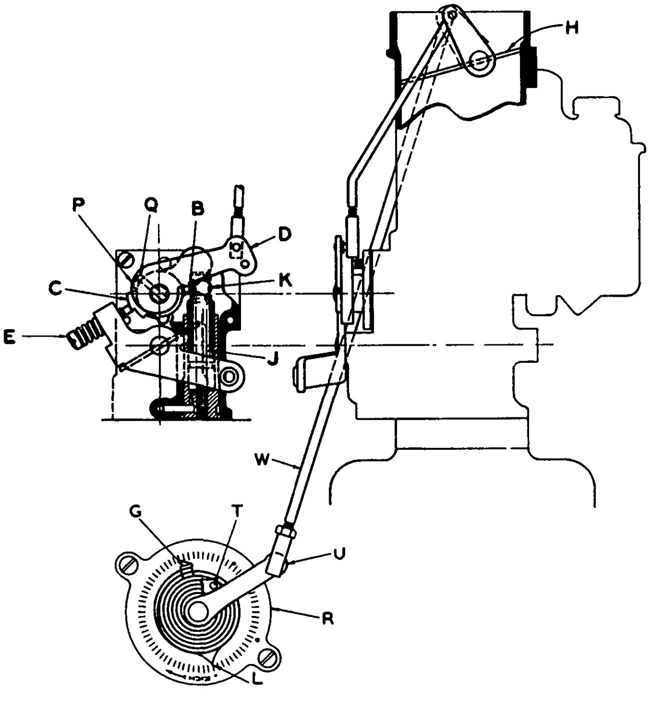


Fig. 1—Choke Closed—Fast Idle

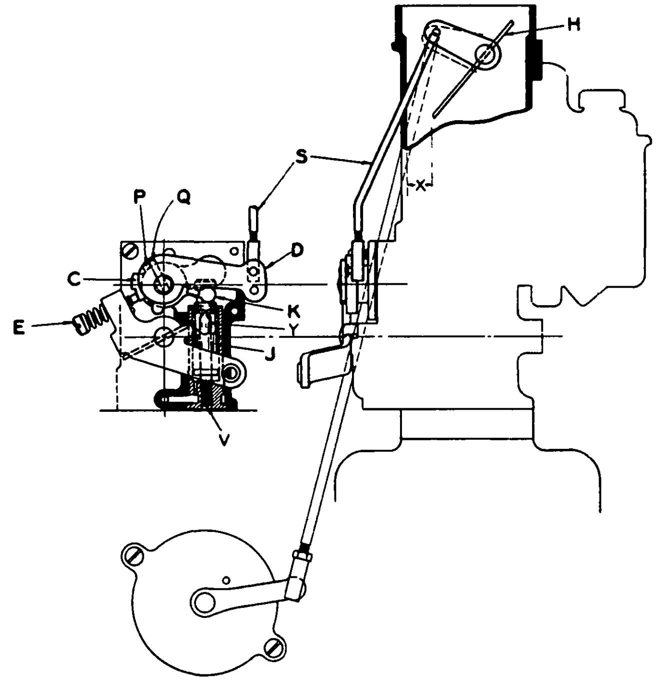


Fig. 2—Choke Partially Open—Engine Warm—Intermediate Idle

The purpose of the fast idle mechanism is to prevent the throttle valve from closing tightly while cranking the engine and also from stalling during the warming up period. Figures 1 to 4 show the automatic choke control and fast idle mechanism in the various stages of operation.

CHOKE CLOSED — FAST IDLE

To make a start it is necessary to OPEN THROTTLE TO 20 MILE HOUR SPEED. With this movement adjustment screw "E" is lifted away from the fast idle cam "C" and allows choke valve "H" to close. With this actoin choke lever "D" is raised and pin "Q" which is on the same pivotal shaft, makes contact with ear "P" of loose lever arm "K" and raises the vacuum piston "J". With the raising of lever "D", ear "B", which is a part of the lever, lifts fast idle cam "C" so that adjustment screw "E" comes to rest on the extreme fast idle position of cam "C". During the cranking of the engine the carburetor and choke control remain in the closed position as shown in Fig. 1.

ADJUSTING THERMOSTAT

To adjust the thermostat it is necessary to remove the complete unit "R" from the manifold and proceed as follows:

1. Allow the thermostat to cool or warm until it has reached the temperature of 70°.
2. After it has reached this temperature, unhook the thermostat from the prong "G", revolve indicator point "L" to the zero marking of the thermostat plate. In this position the hook of the thermostat should come flush with the prong "G" of the indicator.
3. Thermostat pointer should then be revolved to the prick punch marking which is ten graduations rich and is the original setting made at the factory.

   If the thermostat hook does not come against prong "G" when the pointer "L" is at the zero marking, it will be necessary to recalibrate the thermostat as follows:
4. Revolve pointer so that the hook of the thermostat comes flush with prong "G", with lever held against screw "T". This will then place pointer "L" at a different position and will be the new zero location. This should be stamped on the plate and the old marking obliterated.
5. From this point hook the spring onto prong "G" and revolve pointer "L" ten notches rich and lock in position.
6. Reinstall thermostat unit "R" to manifold and with choke valve "H" in closed position, attach rod "W" to lever "U", holding lever against screw "T"

CHOKE PARTIALLY OPEN — ENGINE WARM — INTERMEDIATE IDLE

As soon as the engine begins to fire and a manifold vacuum is created, vacuum piston "J" is pulled down. Ear "P" of loose arm "K" comes in contact with dowel pin "Q" to rotate shaft and assembly in clockwise direction, lever "D" being on the same shaft as pin "Q" rotates with it and pulls down connecting rod "S", which forces choke valve "H" to open a predetermined amount.

Fast idle cam "C" is a weighted lever and is free to drop by its own weight from this position on, allowing adjustment screw "E" to gradually close the throttle valve until it reaches the slow idle position. The choke valve in the carburetor continues to open by the inrushing air, which works against the tension of the thermostat until the thermostat absorbs enough heat so that it will not offer any resistance until the choke valve "H" reaches the position as shown in Fig. No. 3 with a hot engine. If for any reason it is necessary to replace piston sleeve or pin "Y", the pin should be adjusted so that a 27/64" drill can be placed between the choke valve and body shown as "X", with piston "J" in the down position. After pin is adjusted, lead ball "V" should be used to lock pin in position.

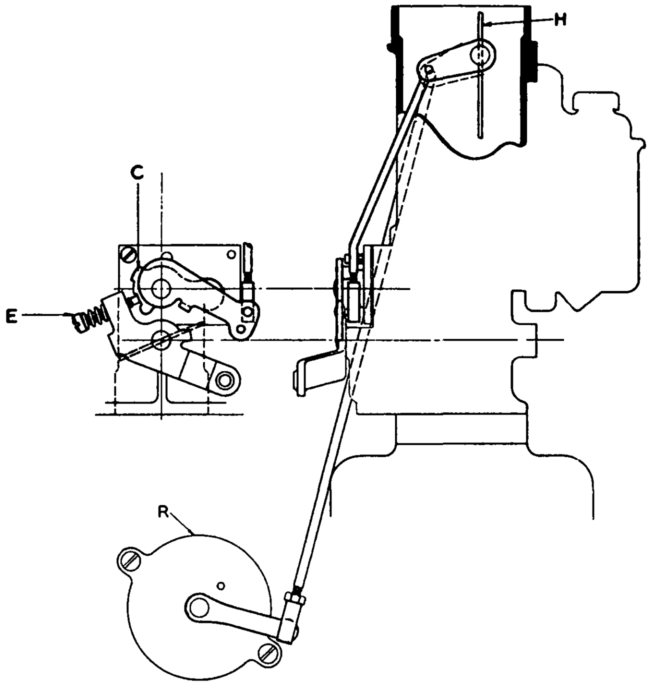


Fig. 3—Choke Open—Slow Idle—Engine Hot or Cold

CHOKE OPEN—SLOW IDLE—ENGINE HOT OR COLD

Figure 3 shows the choke valve "H" in wide open position which it will be when a hot motor is stopped and the throttle valve is allowed to close. In this illustration, adjustment screw "E" is shown at slow or curb idle which should be set at 7 miles per hour with the engine warm. As the engine becomes cold the thermostat also cools to gradually gain tension and tend to close the carburetor choke valve. It is prevented from doing so by the fast idle adjustment screw "E" coming in contact with the notch on the fast idle cam "C".

FAST IDLE ADJUSTMENT

With fast idle screw in contact with middle step of cam and against shoulder of third step, choke valve to be open to a 11/64" drill (measure as shown in Fig. 2 "X"). Adjust by screwing fast idle rod "IN" or "OUT" of ball joint to obtain correct choke valve opening.

ENGINE FLOODED — THROTTLE OPEN

Should the engine become flooded for any reason, the choke valve "H" can be manually opened by kicking the throttle pedal wide open. This action rotates throttle lever "A" in anti-clockwise direction to bring it in contact with ear "N" of fast idle cam "C". The weighted end of the cam hits against ear "B" of choke lever "D", which pulls down connecting rod "S" and forces choke valve "H" to open.

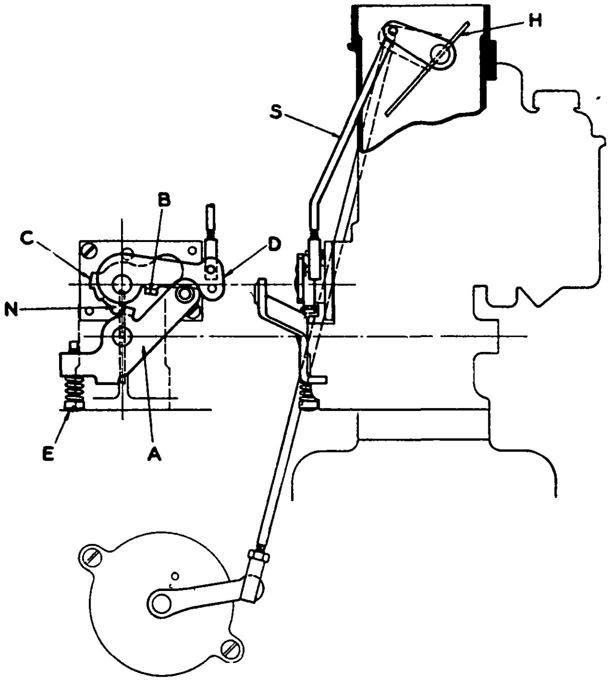
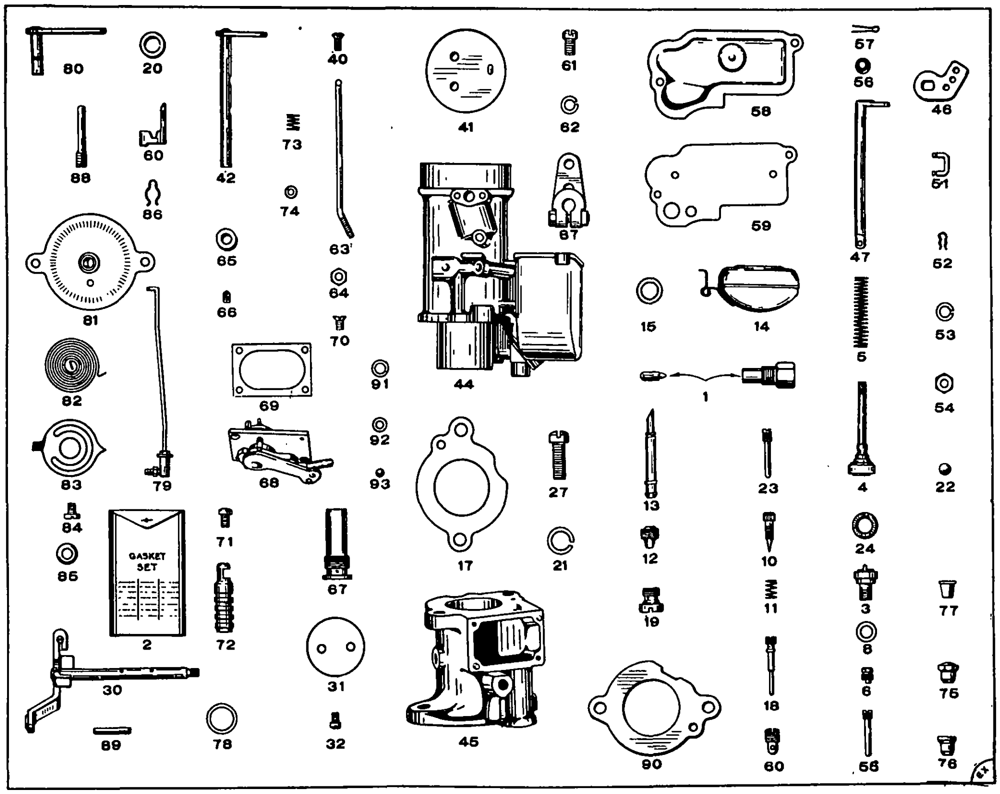


Fig. 4—Engine Flooded—Throttle Open



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No.	Part No.	Part Name
	1	**P-21518**	Float Needle Valve & Seat—.093" **(NOT VAR.)**
	2	**J-4384-G**	Complete Gasket Set
	3	**P-18149**	Power By-Pass Jet No. 56 **(NOT VAR.)**
	4	**P-20747**	Pump Piston and Stem **(Includes P-16960)**
	5	**P-18215**	Spring—Pump Duration
	6	**P-18144**	Pump Inlet Check Valve
	8	**P-6855**	Gasket—By-Pass Jet
	10	**P-17402**	Idle Needle Valve
	11	**P-15481**	Spring—Idle Needle Valve
	12	**P-17004**	Metering Jet **.058"** **(VAR.)**
	13	**P-21687**	Main Disch. Jet No. 28-32 **(NOT VAR.)**
	14	**P-17486**	Float with Lever
	15	**P-10666**	Gasket—Float Needle Valve Seat
	17	**P-19323**	Gasket—Main Body
	18	**P-21688**	Idle Tube
	19	**P-21697**	Plug—Main Disch. Jet
	20	**P-60308**	Gasket—Main Disch. Jet Plug
	21	**P-6592**	Lockwasher—Main Body Attach. Screw
	22	**P-18772**	Lead Ball—3/16"
	23	**P-18125**	Screw—Fulcrum—Float Lever
	24	**P-16960**	Spring—Pump Piston Leather Expansion
	27	**P-19339**	Screw—Main Body Attach.
	30	**P-21695**	Throttle Lever and Stem
		P-19103	Screw—Throttle Stop
		P-15831	Spring—Throttle Stop Screw
	31	**P-6454**	Throttle Valve—(18½°) **(VAR.)**
	40	**P-4522**	Screw—Throttle Valve & Choke Valve Attach.
	41	**P-20221**	Choke Valve
	42	**P-20602**	Choke Stem and Lever
	44	**P-21693-T**	Main Body **1-5/32** Venturi—**No. 70** High Speed Bleeder **(VAR.)**
	45	**P-22048**	Throt. Body—**No. 56-58**—Idle Discharge Holes—**No. 55**—Idle Air Bleed **(VAR.)**
		P-18970	Auto. Choke Guide Pin
		P-21714	Idle Air Bleed
	46	**P-20628**	Pump Lever
	47	**P-19165**	Pump Rod
	51	**P-20203**	Pump Link
	52	**P-19374**	Cotter Pin—Pump Link
	53	**P-1791**	Lockwasher—Pump Lever Attach. Nut
	54	**P-2290**	Nut—Pump Lever Attach.
	55	**P-18126**	Nozzle—Pump Disch. **No. 66** **(VAR.)**
	56	**P-18135**	Nut—Pump Rod
	57	**P-4**	Cotter Pin—Pump Rod Nut—Fast Idle Rod
	58	**P-18124-F**	Float Cover
	59	**P-17778**	Gasket—Float Cover
	60	**P-20603**	Cup—Small Venturi
	61	**P-2866**	Screw—Float Cover Attach.
	62	**P-12167**	Lockwasher—Float Cover Attach. Screw
	63	**P-21698**	Rod—Fast Idle
	64	**P-19587**	Nut—Fast Idle Rod
	65	**P-17081**	Collar—Choke Stem
	66	**P-16161**	Set Screw—Choke Stem Collar
	67	**P-21176**	Sleeve—Vac. Piston
	68	**P-20605**	Auto. Choke Unit
		P-19539	Pin—Lever Stop
		P-19575	Ball Joint
	69	**P-19124**	Gasket—Auto. Choke Unit
	70	**P-19105**	Screw—Auto. Choke with Attach.
	71	**P-2369**	Screw—Piston Stop
	72	**P-21350**	Piston—Vacuum
	73	**P-19774**	Spring—Choke Stem
	74	**P-17259**	Spacer—Choke Stem
	75	**P-21053**	Plug—Pump Disch. Channel
	76	**P-15458**	Plug—Idle Disch. Holes
	77	**P-15459**	Plug—Idle Disch. Drilling Hole
	78	**P-19662**	Gasket—Vac. Piston Sleeve
	79	**P-21678**	Rod—Choke
		P-21679	Choke Rod
		P-16639	Nut—Choke Rod
		P-17060	Washer—Ball Joint
		P-17761	Assy.—Ball Joint
	80	**P-19975**	Thermostat Stem and Lever
	81	**P-21586**	Thermostat Plate and Bushing
	82	**P-21370**	Thermostat
	83	**P-19113**	Thermostat Bracket
	84	**P-20618**	Thermostat Bracket Lock Screw
	85	**P-16426**	Thermostat Washer
	86	**P-21338**	Thermostat Stem Cotter Pin
		P-20478	Assy.—Thermostat
	87	**P-17712**	Choke Lever
		P-17711	Lever
		P-18300	Lever Clamp Screw
		P-18299	Lever Clamp Screw Nut
	88	**P-19986**	Pin—Piston Adj.
	89	**P-4499**	Pin—Choke Stem Separator
	90	**P-19322**	Insulator—Main Body
	91	**P-20630**	Gasket—Main Disch. Jet—Lead
	92	**P-22071**	Gasket—Idle Tube—Copper
	93	**P-19983**	Lead Ball—⅛"

NOTE—For parts marked (VAR.) size must be specified when ordering.

BENDIX PRODUCTS DIVISION
SOUTH BEND **OF BENDIX AVIATION CORPORATION** **INDIANA**

STROMBERG "EX-23" CARBURETOR

STROMBERG NO. A-17922 (CODE NO. 6-9) STUDEBAKER SYMBOL 184716

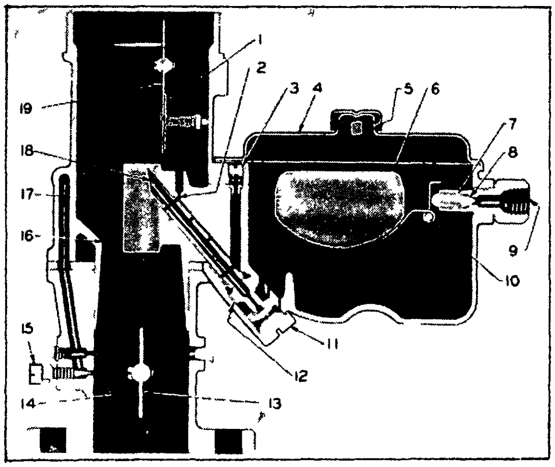
SIZE: 1¼" D. D. S.A.E. 2-11/16" FLANGE CENTERS

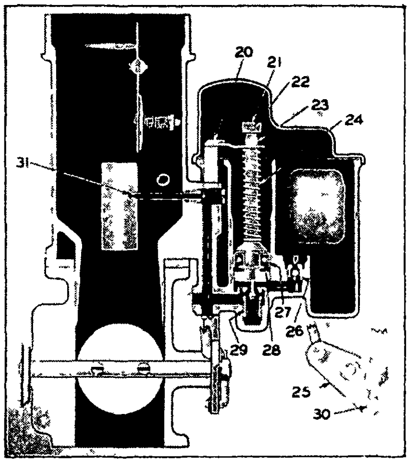
REPLACE WITH BXV-25 EQPT. J-5491

1935
Studebaker
MODEL
"1A" DICTATOR
3¼"x4⅛"—6 cyl.

PARTS ILLUSTRATED

1	Poppet Valve
2	High Speed Bleed
3	Idle Tube
4	Float Chamber Cover
5	Float Chamber Vent
6	Float
7	Float Needle Valve
8	Float Needle Valve Seat
9	Gasoline Inlet
10	Float Fulcrum Pin
11	Main Discharge Jet Plug
12	Main Metering Jet
13	Throttle Valve
14	Idle Discharge Holes
15	Idle Needle Valve
16	Primary Venturi
17	Auxiliary Venturi
18	Main Discharge Jet
19	Choke Valve
20	Pump Rod
21	Power Adjustment Nut
22	Cotter Pin
23	Piston Connecting Rod
24	Connecting Rod Spring
25	Pump Lever
26	Check Valve
27	Pump Piston
28	Pump Piston Spring
29	Power By-Pass Jet
30	Pump Lever Link
31	Pump Discharge Nozzle





Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **5/8"** below top surface of float chamber (without gasket) at 3 lbs. pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level).

MAIN METERING SYSTEM—Venturi **1-3/32"**; Main Discharge Jet **No. 32** P-20638 **(Tool T-24967).** Use new P-20630 Lead Gasket assembled on lower shoulder of main discharge jet; High Speed Bleeder **No. 70** in body; Main Metering Jet **.058"** P-17004 **(Tool T-23844)**; Use **Tool T-19099** Screw Driver for removing main jet plug. Main metering system controls the flow of fuel up to approximately 65 to 70 M. P. H.

POWER SYSTEM—Combination Power and Pump By-Pass Jet **4 No. 56** P-18149. The Power Jet is brought into action at approximately 65 to 70 M. P. H. Pump piston to rest on seat of by-pass jet (less over-travel) with throttle valve opened **3/8" + — 1/64"** drill (maximum pump setting) (measure with shank end of **3/8"** drill); adjust pump stem nut to obtain correct setting.

ACCELERATION—Pump Discharge Nozzle **No. 69** P-18126; Pump capacity **9** to **11** c.c. per 10 fast strokes, and **13** to **15** c.c. per 10 slow strokes with pump rod link set in minimum setting. Use **Tool T-24972.** Pump action takes place during acceleration period only.

IDLE SYSTEM—Idle Discharge holes **Nos. 56-58.** With throttle valve fully closed and **No. 58** drill in idle hole, edge of valve is located **.012" + — .004"** from **No. 58** drill; Idle Air Bleed **No. 54** in idle tube; Idle Tube **No. 68** P-20636. **Adjustment:** Adjust to smooth running, OUT to make richer and IN to make leaner; throttle at 7 to 8 M. P. H.

FLANGE GASKET—P-4752.

SPECIAL TOOLS REQUIRED—Use Studebaker complete Tool Kit **SER-386**; T-24733 Float Adjuster Wrench; T-24967 Main Discharge Jet Remover; T-23844 Main Metering Jet Wrench; T-24970 By-Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burrette Gauge; T-24968 Handle; T-19099 Main Jet Plug Screw Driver.

MOTOR TUNE-UP DATA

SPARK PLUG—.025".
Clean and adjust at regular intervals.

DISTRIBUTOR—.018" to .020".
Breaker gap set .018" to .020".
Replace if necessary.

VALVES—Intake: .004".
Exhaust: .006". **Engine hot.**

IGNITION TIMING—Breaker contacts to open for No. 1 cylinder when flywheel mark "UDC/1/6" is in line with indicator on housing.

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

GENERAL DESCRIPTION AND ADJUSTMENT OF AUTOMATIC CHOKE CONTROL AND FAST IDLE MECHANISM

In the Stromberg EX-23 Model carburetor, the automatic choke control with the exception of the thermostat unit "R" is built into the throttle valve body. The thermostat is attached to the manifold riser where it can absorb heat from the exhaust gasses which govern its tension. The design of the automatic choke control in the EX-23 carburetor does not require the choke control be "locked" in closed position while cranking the engine.

CHOKE CLOSED — FAST IDLE

To make a start it is necessary to OPEN THROTTLE TO 20 MILE HOUR SPEED. With this movement adjustment screw "E" is lifted away from the fast idle cam "C" and allows choke valve "H" to close. With this actoin choke lever "D" is raised and pin "Q" which is on the same pivotal shaft, makes contact with ear "P" of loose lever arm "K" and raises the vacuum piston "J". With the raising of lever "D", ear "B", which is a part of the lever, lifts fast idle cam "C" so that adjustment screw "E" comes to rest on the extreme fast idle position of cam "C". During the cranking of the engine the carburetor and choke control remain in the closed position as shown in Fig. 1.

ADJUSTING THERMOSTAT

To adjust the thermostat it is necessary to remove the complete unit "R" from the manifold and proceed as follows:

1. Allow the thermostat to cool or warm until it has reached the temperature of 70°.
2. After it has reached this temperature, unhook the thermostat from the prong "G", revolve indicator point "L" to the zero marking of the thermostat plate. In this position the hook of the thermostat should come flush with the prong "G" of the indicator.
3. Thermostat pointer should then be revolved to the prick punch marking which is ten graduations rich and is the original setting made at the factory.

   If the thermostat hook does not come against prong "G" when the pointer "L" is at the zero marking, it will be necessary to recalibrate the thermostat as follows:
4. Revolve pointer so that the hook of the thermostat comes flush with prong "G", with lever held against screw "T". This will then place pointer "L" at a different position and will be the new zero location. This should be stamped on the plate and the old marking obliterated.
5. **From this point hook the spring onto prong "G" and revolve pointer "L" ten notches rich and lock in position.**
6. Reinstall thermostat unit "R" to manifold and with choke valve "H" in closed position, attach rod "W" to lever "U", holding lever against screw "T".

The purpose of the fast idle mechanism is to prevent the throttle valve from closing tightly while cranking the engine and also from stalling during the warming up period. Figures 1 to 4 show the automatic choke control and fast idle mechanism in the various stages of operation.

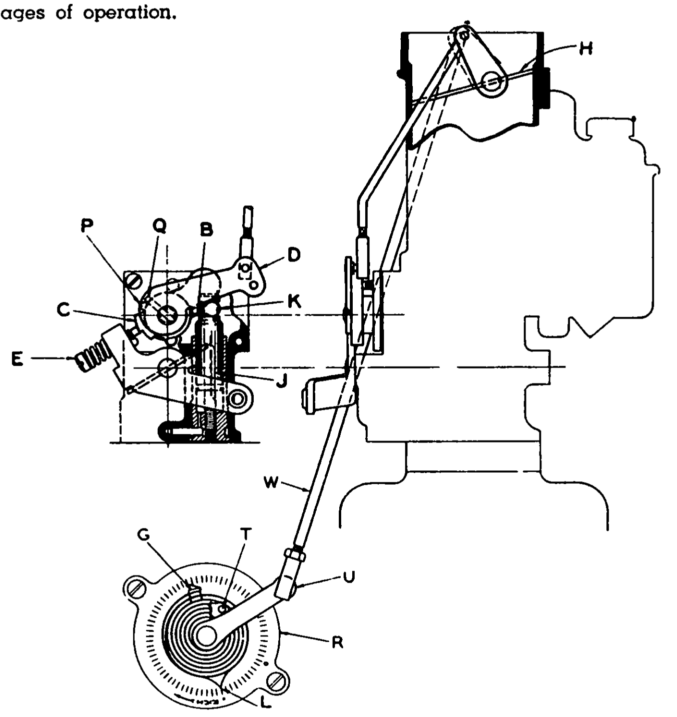


Fig. 1—Choke Closed—Fast Idle

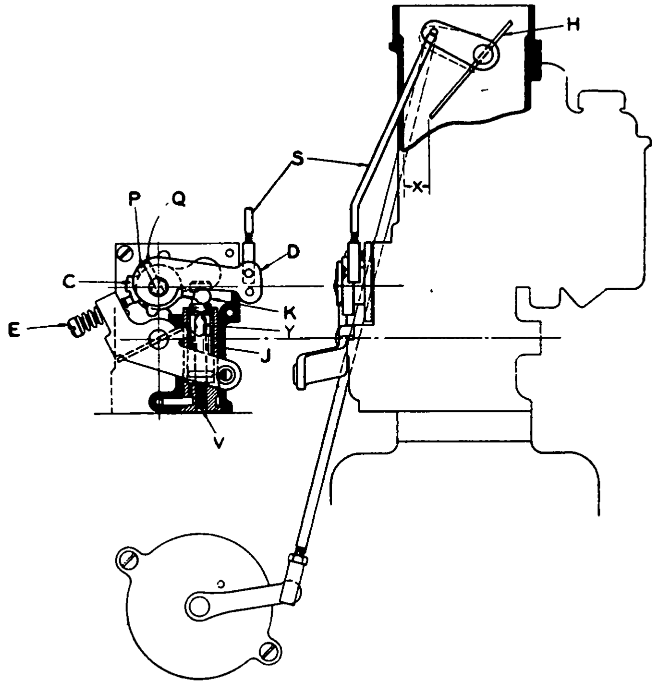


Fig. 2—Choke Partially Open—Engine Warm—Intermediate Idle

CHOKE PARTIALLY OPEN — ENGINE WARM — INTERMEDIATE IDLE

As soon as the engine begins to fire and a manifold vacuum is created, vacuum piston "J" is pulled down Ear "P" of loose arm "K" comes in contact with dowel pin "Q" to rotate shaft and assembly in clockwise direction, lever "D" being on the same shaft as pin "Q" rotates with it and pulls down connecting rod "S", which forces choke valve "H" to open a predetermined amount.

Fast idle cam "C" is a weighted lever and is free to drop by its own weight from this position on, allowing adjustment screw "E" to gradually close the throttle valve until it reaches the slow idle position The choke valve in the carburetor continues to open by the inrushing air, which works against the tension of the thermostat until the thermostat absorbs enough heat so that it will not offer any resistance until the choke valve "H" reaches the position as shown in Fig. No 3 with a hot engine If for any reason it is necessary to replace piston sleeve or pin "Y", the pin should be adjusted so that a 27/64" drill can be placed between the choke valve and body shown as "X", with piston "J" in the down position. After pin is adjusted, lead ball "V" should be used to lock pin in position

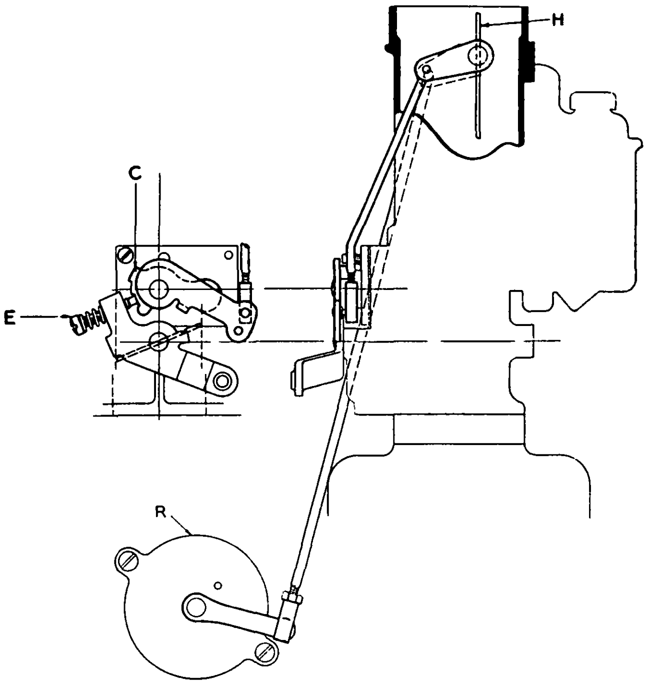


Fig. 3—Choke Open—Slow Idle—Engine Hot or Cold

CHOKE OPEN—SLOW IDLE—ENGINE HOT OR COLD

Figure 3 shows the choke valve "H" in wide open position which it will be when a hot motor is stopped and the throttle valve is allowed to close In this illustration adjustment screw "E" is shown at slow or curb idle which should be set at 7 miles per hour with the engine warm As the engine becomes cold the thermostat also cools to gradually gain tension and tend to close the carburetor choke valve It is prevented from doing so by the fast idle adjustment screw "E" coming in contact with the notch on the fast idle cam "C".

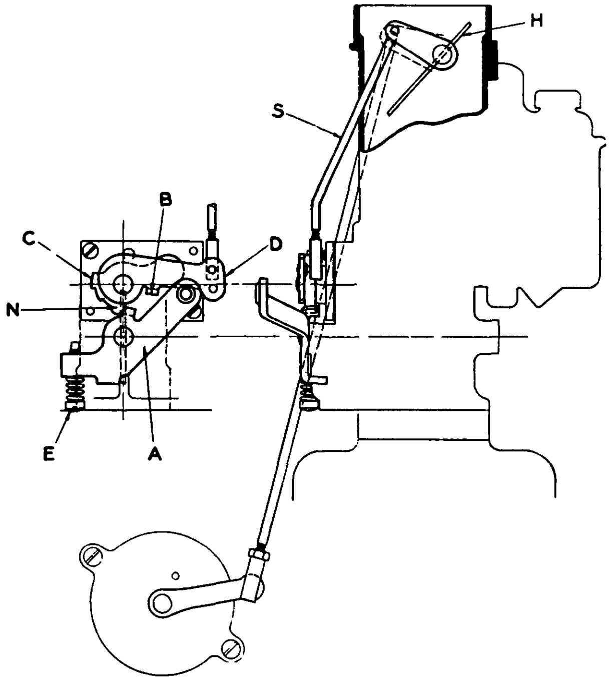


Fig. 4—Engine Flooded—Throttle Open

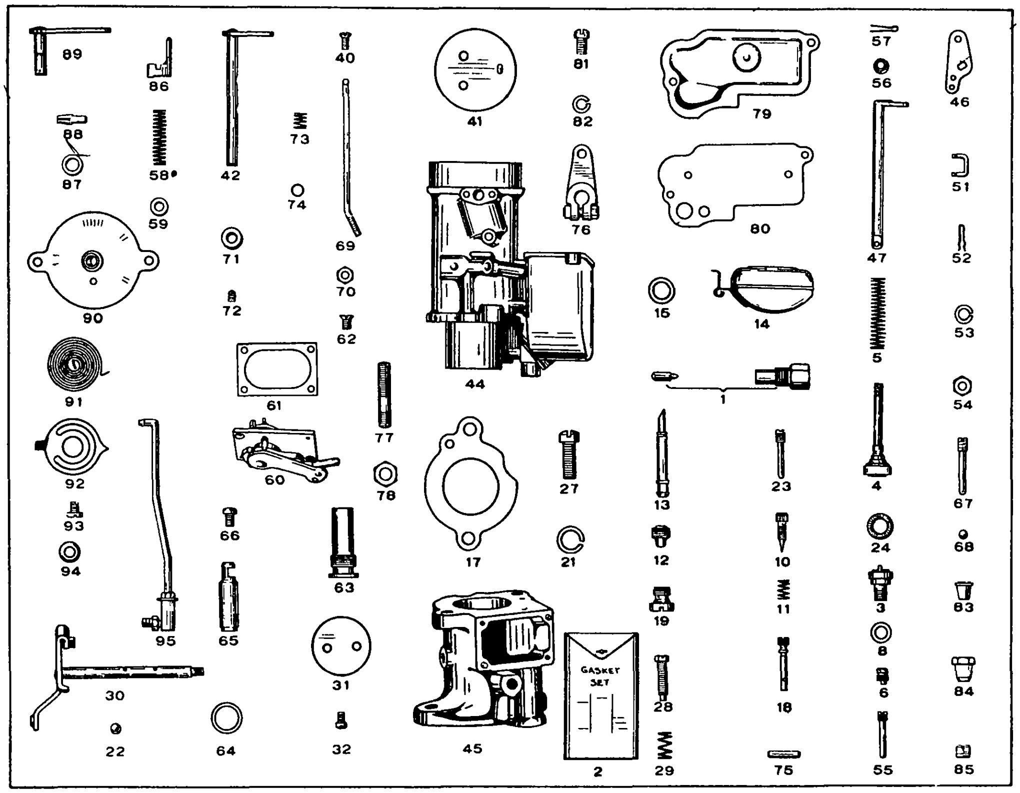
FAST IDLE ADJUSTMENT

With fast idle screw in contact with middle step of cam and against shoulder of third step choke valve to be open to a 11/64" drill (measure as shown in Fig 2 "X") Adjust by screwing fast idle rod "IN" or "OUT" of ball joint to obtain correct choke valve opening

ENGINE FLOODED — THROTTLE OPEN

Should the engine become flooded for any reason, the choke valve "H" can be manually opened by kicking the throttle pedal wide open This action rotates throttle lever "A" in anti clockwise direction to bring it in contact with ear "N" of fast idle cam "C" The weighted end of the cam hits against ear "B" of choke lever "D", which pulls down connecting rod "S" and forces choke valve "H" to open.

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No.	Part No.	Part Name
	1	P-21518	Float Needle Valve & Seat—.093″ **(NOT VAR.)**
	2	J-4534-G	Complete Gasket Set
	3	P-18149	Power By Pass Jet No 56 **(NOT VAR.)**
	4	P-20644	Pump Piston and Link **(Includes P-16960)**
	5	P-18221	Spring—Pump Duration (upper)
	6	P-18144	Pump Inlet Check Valve
	8	P-6855	Gasket—By-Pass Jet
	10	P-17402	Idle Needle Valve
	11	P-15481	Spring—Idle Needle Valve
	12	P-17004	Metering Jet **.058″** **(VAR.)**
	13	P-20638	Main Disch Jet No 32 **(NOT VAR.)**
	14	P-17486	Float with Lever
	15	P-10666	Gasket—Float Needle Valve seat and Main Discharge Jet Plug
	17	P-16943	Gasket—Main Body
	18	P-20636	Idle Tube No 68—Feed Hole—No 54 Air Bleed **(NOT VAR.)**
	19	P-18130	Plug—Main Disch Jet
	21	P-8838	Lockwasher—Main Body Attach Screw
	22	P-18772	Lead Ball 3/16″
	23	P-18125	Screw—Fulcrum—Float Lever
	24	P-16960	Spring—Pump Piston Leather Expansion
	27	P-17000	Screw—Main Body Attach
	28	P-19103	Screw—Throttle Stop
	29	P-15831	Spring—Throttle Stop Screw
	30	P-19564	Throt Lever & Stem **(Includes No. 28 & No. 29)**
	31	P-6454	Throttle Valve (18½°) **(VAR.)**
	32	P-16717	Screw—Throttle Valve Attach
	40	P-4522	Screw—Choke Valve Attach
	41	P-20221	Choke Valve
	42	P-20602	Choke Stem
	44	P-20632-T	Main Body—**1-3/32″** Venturi **No. 70** High Speed Bleeder **(VAR.)**
	45	P-19582	Throttle Body **No. 56-58** Idle Disch Hole **(VAR.)**
	46	P-18358	Pump Lever
	47	P-19165	Pump Rod
	51	P-18141	Link—Pump
	52	P-18114	Cotter Pin—Pump Link
	53	P-1791	Lockwasher—Pump Lever Attach Nut
	54	P-2298	Nut—Pump Lever Attach
	55	P-18126	Nozzle—Pump Disch **No. 69** **(VAR.)**
	56	P-18135	Nut—Pump Rod
	57	P-4	Cotter Pin—Pump Rod Nut
	58	P-18223	Spring—Pump Duration (Lower)
	59	P-4735	Washer—Duration Spring Divider
	60	P-20605	Auto Choke Unit
	61	P-19124	Gasket—Auto Choke Unit
	62	P 19105	Screw—Auto Choke Unit Attach
	63	P-21176	Vac Piston Sleeve (Supersedes P-19984)
	64	P-19662	Gasket—Vac Piston Sleeve
	65	P 21350	Vac Piston (Supersedes P-19988)
	66	P 2369	Screw—Vac Piston Stop
	67	P-19986	Pin Vac Piston Adj
	68	P 19983	Lead Ball—Vac Piston Adj Pin Plug
	69	P 19588	Rod—Fast Idle
	70	P-19587	Nut—Fast Idle Rod Adj Lock
	71	P 17081	Collar—Choke Stem
	72	P 16161	Screw—Choke Stem Collar Set
	73	P-19774	Spring—Choke Stem
	74	P 17259	Bushing—Choke Lever Spacer
	75	P-4499	Pin—Choke Stem Separator
	76	P-20667	Choke Lever (Complete)
		P-17711	Choke Lever
		P 18300	Choke Lever Clamp Screw
		P 18299	Choke Lever Clamp Screw Nut
	77	P-19864	Stud—Main Body Attach
	78	P 16200	Nut—Main Body Attach Stud
	79	P 18124-F	Float Cover
	80	P 17778	Gasket—Float Cover
	81	P-2866	Screw—Float Cover Attach
	82	P-12167	Lockwasher—Float Cover Attach Screw
	83	P-15459	Plug—Idle Disch Drilling Hole
	84	P 21053	Plug—Pump Disch Channel
	85	P-6387	Plug—Idle Disch Hole No 10 32
	86	P-20603	Cup—Small Venturi
	87	P-20630	Gasket—Main Disch Jet Lead
	88	P-18970	Pin—Auto Choke Unit Guide
	89	P-19975	Thermostat Lever and Stem
	90	P-21586	Thermostat Cover Plate and Bushing
	91	P-21370	Thermostat
	92	P-19113	Thermostat Bracket
	93	P-20618	Screw
	94	P-16426	Washer
	95	P-20604	Choke Rod
		P-20478	Thermostat Unit (Complete)

NOTE—For parts marked (VAR.) size must be specified when ordering.

BENDIX PRODUCTS DIVISION
SOUTH BEND **OF BENDIX AVIATION CORPORATION** **INDIANA**

STROMBERG CARBURETOR

Parts and Technical Information

Terraplane

Equipment No.	Type	Year	Models
J-5593	BXV-2	1932-33	KU

Use Standard A-19082 BXV-2 Carburetor Parts except—

Use P-10641 Throttle Lever (Key No. 71) in place of P-23215

For complete Technical and Parts information refer to Standard Section BXV-2 Carburetor—Form 10C-629

J-5594	BXV-25	1932-33	KU

Us Standard A-19092 BXV-25 Carburetor Parts except—

Use P-10641 Throttle Lever (Key No. 73) in place of P-23215

For complete Technical and Parts information refer to Standard Section BXV-25 Carburetor—Form 10C-630

J-5445	BXOV-2	1933-36	6 and 8
		1937	"71"
		1938	"81"

For complete Technical and Parts information refer to Hudson Section—Form 10C-644

J-5480	BXOV-25	1933-36	6 and 8
		1937	"71"
		1938	"81"

Us Standard A-19112 BXOV-25 Carburetor Parts except—

Use P-10641 Throttle Lever (Key No. 73) in place of P-23215
P- 3221 Union (Key No. 93) in place of P-17481

Extra Parts not illustrated—P-23331 Rod

For complete Technical and Parts information refer to Standard Section BXOV-25 Carburetor—Form 10C-632

STROMBERG AAV-2 CARBURETOR

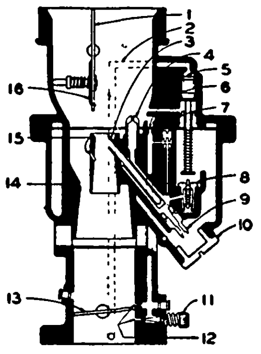
STROMBERG NO. 380053 (CODE NO. 29-60) WHITE SYMBOL NO. 372626

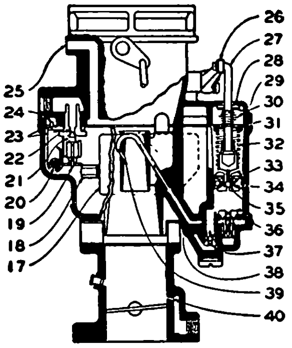
SIZE: 1-1/4" DUAL D.D. 4-HOLE FLANGE

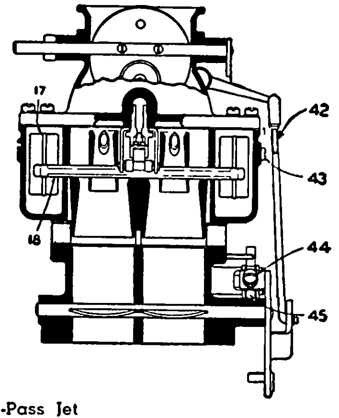
1940-41 WHITE

Mod 1 M-3 U.S. Scout Car
ENGINE 160TA
4" x 5-1/8"—6 cyl.

PARTS ILLUSTRATED







1. Choke Valve
2. Vacuum Channel
3. Main Discharge Jet
4. High Speed Bleeder
5. Power Vacuum Piston
6. Idle Air Bleeder
7. Idle Tube
8. Power By-Pass Jet
9. Main Metering Jet
10. Main Discharge Jet Plug
11. Idle Needle Valve
12. Idle Discharge Holes
13. Throttle Valve
14. Primary Venturi
15. Auxiliary Venturi
16. Choke Relief Valve
17. Float
18. Float Lever
19. Float Needle Valve Clip
20. Float Fulcrum Pin
21. Float Needle Valve
22. Float Needle Valve Seat
23. Float Hanger Gaskets
24. Float Hanger
25. Float Chamber Vent
26. Pump Fulcrum Arm
27. Pump Piston Link
28. Felt Dust Washer
29. Retainer Washer
30. Dust Washer Spring
31. Spring Retainer Washer
32. Pump Duration Spring
33. Pump Piston
34. Piston Expansion Spring
35. Pump Relief Valve
36. Pump By-Pass Jet
37. Pump Inlet Check Valve
38. Pump Discharge Channel
39. Pump Discharge Nozzle
40. Spark Control Hole
42. Pump Rod
43. Fuel Level Sight Plug
44. Throttle Stop Screw
45. Fast Idl Cam

Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—Measure **5/8"** below top surface of float chamber (without gasket) or level with bottom of level sight hole. To correct fuel level, hold air horn in inverted position. Place **Tool T-24971** on gasket. Tops of floats should be **1/32"** below tops of vertical guides, which will give approximate fuel level; change if necessary. Sides of floats should be parallel to guides of tool without drag.

MAIN METERING SYSTEM—Venturi **1-1/8"**; Main Discharge Jet **No.** 36 P-22795 (**Tool T-24967**); High Speed Bleeder **No. 63** in body. Main Metering Jet **.058"** P-22660 (**Tool T-24924**); Use **Tool T-19099** Screwdriver for removing main jet plug. Main metering system controls the flow of fuel up to approximately 65 to 70 M. P. H.

POWER SYSTEM—Power By-Pass Jet **No. 56** P-21657; Power jet to come into operation at **4"** to **6"** of manifold vacuum, which is approximately 65 to 70 M. P. H. (**Tool T-24733**) used to remove vacuum power piston.

ACCELERATION—Pump Discharge Nozzles **No. 60** in main body; Pump By-Pass Jet **No. 63** P-23742; Pump capacity **18** to **22** c.c. per 10 fast and slow strokes, with pump rod link set in minimum setting. Pump action takes place during acceleration period only. (**Tool T-24972.**)

IDLE SYSTEM—Idle Discharge holes **Nos. 54-58.** With throttle valve fully closed and **No. 58** drill in idle hole, edge of valve is located **.030"** + — **.004"** from **No. 58** drill; Idle Air Bleed **No. 36** P-23536 in throttle body, **No. 60** in main body; Idle Tube **No.** 66 P-23527. **Adjustment:** Adjust to smooth running one barrel at a time, **OUT** to make richer and **IN** to make leaner; throttle at 7 to 8 M. P. H.

FLANGE GASKET—382048.

SPECIAL TOOLS MENTIONED ABOVE CONTAINED IN TOOL KIT SER-459 SEE FORM 10-265A

MOTOR TUNE-UP DATA

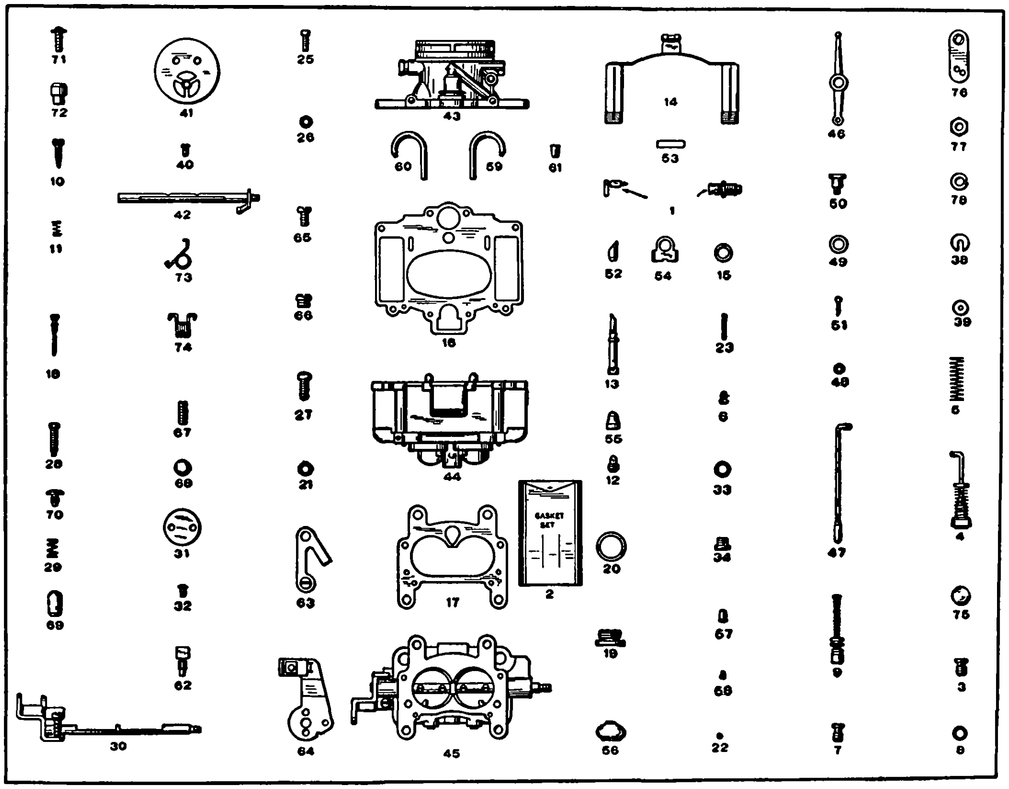
SPARK PLUG—.025".
Clean and adjust at regular intervals.

DISTRIBUTOR—.018".
Breaker gap set .018".
Replace if necessary.

IGNITION TIMING—
Set points to break when identification mark "x" on flywheel is opposite the pointer on case.

VALVES—Intake: Exhaust: } Automatic.

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.



SERVICE REPLACEMENT PARTS LIST

Repair Parts Kit No. RK-521

Bin Location	Key No.	Part No	Part Name	
	1	**P-22499**	Float Needle Valve Clip and Seat 101	**(NOT VAR)**
	2	**J-5545-G**	Complete Gasket Set	
	3	**P-23742**	Pump By Pass Jet No 63	**(NOT VAR)**
	4	**382741**	Pump Piston Link and Spring	**(Complete)**
	5	**P-22870**	Spring—Pump Duration	
	6	**P-18144**	Pump Inlet Check Valve	
	7	**P-21657**	Power By Pass Jet No 56	**(NOT VAR)**
	8	**P-19448**	Gasket—By Pass Jet	
	9	**P-22803**	Vacuum Power Piston	
	10	**P-15478**	Idle Needle Valve	
	11	**P-18710**	Spring—Idle Needle Valve	
	12	**P-22660**	Metering Jet **058″**	**(VAR)**
	13	**P-22795**	Main Discharge Jet No 36	**(NOT VAR)**
	14	**382269**	Float with Lever	
	15	**P-2885**	Gasket—Float Needle Valve Seat	
	16	**P-22885**	Gasket—Air Horn	
	17	**P-22427**	Gasket—Main Body	
	18	**P-23527**	Idle Tube .	
	19	**P-21767**	Plug—Main Discharge Jet	
	20	**P-22851**	Gasket—Main Discharge Jet Plug	
	21	**P-3157**	Lockwasher—Main Body Attach Screw	
	22	**P-18772**	Lead Ball	
	23	**P-22439**	Fulcrum Pin—Float Lever	
	25	**P-2475**	Screw—Air Horn Attaching	
	26	**P-6668**	Lockwasher—Air Horn Attaching Screw	
	27	**P-709**	Screw—Main Body Attaching	
	28	**P-16586**	Screw—Throttle Stop	
	29	**P-15831**	Spring—Throttle Stop Screw ..	
	30	**382761**	Throttle Lever and Stem	
	31	**P-23537**	Throttle Valve ..	
	32	**P-23486**	Screw—Throttle Valve Attaching	
	33	**P-7338**	Gasket—Check Valve Plug	
	34	**P-19716**	Plug—Check Valve	
	38	**P-22046**	Washer—Cup ..	
	39	**P-22045**	Washer—Spring Retainer	
	40	**P-4522**	Screw—Choke Valve Attach	
	41	**P-23825**	Choke Valve	
	42	**382756**	Choke Stem and Lever ..	
	43	**382696**	Assy —Air Horn	
	44	**382769**	Assy —Main Body **1-1/8″** Venturi (complete with H S Bleeder Idle Air Bleeder and Pump Disch Tubes ..	**(VAR)**
	45	**382764**	Assembly—Throttle Body **No 54-58** Idle Disch Hole ..	**(VAR)**
	46	**382688**	Pump Lever	
	47	**P-22620**	Pump Rod	
	48	**P-9394**	Washer—Pump Rod	
	49	**P-19820**	Spring—Washer—Pump Lever Fulcrum Screw ..	
	50	**P-20611**	Fulcrum Screw—Pump Lever	
	51	**P-7170**	Cotter Pin—Pump Link	
	52	**P-23536**	Bleeder—Idle Air No 36	**(NOT VAR)**
	53	**P-22523**	Clip—Float Needle Valve	
	54	**P-22441**	Hanger—Float	
	55	**P-23858**	Strainer—Check Valve	
	56	**382242**	Boot—Pump Link	
	57	**P-15459**	Plug—Idle Disch Drilling Hole	
	58	**P-15458**	Plug—Idle Disch Hole	
	59	**382765**	Tube—Pump Disch —Right No 60	**(NOT VAR)**
	60	**382766**	Tube—Pump Disch —Left No 60	**(NOT VAR)**
	61	**P-19430**	Wedge—Pump Disch Tube	
	62	**P-14017**	Stop—Throttle Lever	
	63	**P-23564**	Lever—Choke	
		P-9270	Screw—Wire Conn	
	64	**382757**	Tube Holder	
		382758	Holder—Tube	
		P-11561	Clamp—Tube Holder	
		P-12868	Screw—Tube Holder Clamp	
		P-8806	Nut—Tube Holder Clamp Screw	
	65	**P-17093**	Screw—Choke Tube Holder Attach	
	66	**P-6406**	Plug—Fuel Level Sight	
	67	**P-23828**	Plug—Vacuum Channel Hollow Screw	
	68	**P-8495**	Plug—Expansion	
	69	**P-22369**	Bleeder—High Speed **No 63**	**(VAR)**
	70	**P-19818**	Cap—Choke Stem	
	71	**P-17059**	Screw—Choke Lever Fulcrum	
	72	**P-17058**	Bushing—Choke Lever Fulcrum Screw	
	73	**P-18563**	Spring—Choke Valve Return	
	74	**P-18558**	Spring—Choke Lever Return	
	75	**P-12777**	Plug—Welch—Vent Tube Boss	
	76	**P-22894**	Lever—Pump Rod	
	77	**P-2290**	Nut—Pump Rod Lever	
	78	**P-1791**	Lockwasher—Pump Rod Lever Nut	
	79	**382763**	Throttle Loose Lever (Not Illustrated)	
	80	**P-17287**	Throttle Loose Lever Stop (Not Illustrated)	

BENDIX PRODUCTS DIVISION
SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

Printed in U S A

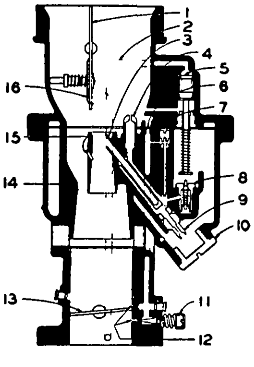
STROMBERG AAV-2 CARBURETOR

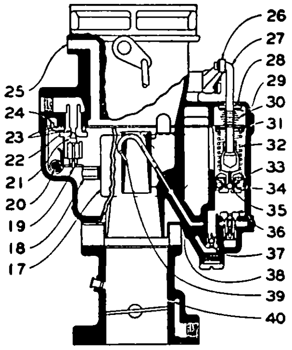
STROMBERG NO 380018 (CODE NO 29-55A) WHITE SYMBOL NO 379063

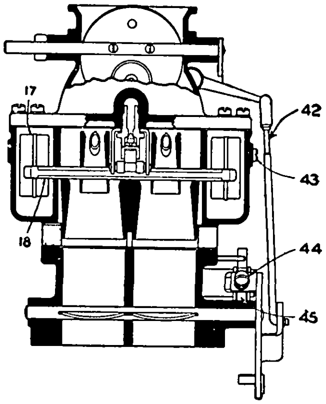
SIZE 1 1/4 DUAL D D 4-HOLE FLANGE

1940
WHITE
"100A"—"110A" ENGINE
3-7/16" and 3-9/16" x 4-1/2"
6 cyl.

PARTS ILLUSTRATED







1 Choke Valve
2 Vacuum Channel
3 Main Discharge Jet
4 High Speed Bleeder
5 Power Vacuum Piston
6 Idle Air Bleeder
7 Idle Tube
8 Power By Pass Jet
9 Main Metering Jet
10 Main Discharge Jet Plug
11 Idle Needle Valve
12 Idle Discharge Holes
13 Throttle Valve
14 Primary Venturi
15 Auxiliary Venturi
16 Choke Relief Valve
17 Float
18 Float Lever
19 Float Needle Valve Clip
20 Float Fulcrum Pin
21 Float Needle Valve
22 Float Needle Valve Seat
23 Float Hanger Gaskets
24 Float Hanger
25 Float Chamber Vent
26 Pump Fulcrum Arm
27 Pump Piston Link
28 Felt Dust Washer
29 Retainer Washer
30 Dust Washer Spring
31 Spring Retainer Washer
32 Pump Duration Spring
33 Pump Piston
34 Piston Expansion Spring
35 Pump Relief Valve
36 Pump By-Pass Jet
37 Pump Inlet Check Valve
38 Pump Discharge Channel
39 Pump Discharge Nozzle
40 Spark Control Hole
42 Pump Rod
43 Fuel Level Sight Plug
44 Throttle Stop Screw
45 Fast Idle Cam

Note—Specifications below are for latest production, previous major changes listed on parts page.

FUEL LEVEL—Measure 5/8" below top surface of float chamber (without gasket) or level with bottom of level sight hole at **4 lbs.** pressure To correct fuel level, hold air horn in inverted position Place **Tool T-24971** on gasket Tops of floats should be 3/64" above tops of vertical guides with brass float and 1/64" above guide with tin plated float, which will give approximate fuel level, change if necessary Sides of floats should be parallel to guides of tool without drag

MAIN METERING SYSTEM—Venturi **1-1/32"**; Main Disch Jet **No. 32** P 23567 (**Tool T-24967**); High Speed Bleeder **No. 70** in body Main Metering Jet **.045"** P 19442 (**Tool T-24924**); Use **Tool T-19099** Screwdriver for removing main jet plug Main metering system controls the flow of fuel up to approximately 65 to 70 M P H

POWER SYSTEM—Power By Pass Jet **No. 62** P-23361, Power jet to come into operation at **4"** to **6"** of manifold vacuum, which is approximately 65 to 70 M P H (**Tool T-24733**) used to remove vacuum power piston

ACCELERATION—Pump Discharge Nozzles **No. 65** in main body, Pump By-Pass Jet **No. 63** P-23742, Pump capacity **18** to **22** c c per 10 fast and slow strokes, with pump rod link set in minimum setting Pump action takes place during acceleration period only (**Tool T-24972.**)

IDLE SYSTEM—Idle Discharge holes **Nos. 54-58.** With throttle valve fully closed and **No. 58** drill in idle hole, edge of valve is located **.030"** + — **.004"** from **No. 58** drill, Idle Air Bleed **No. 36** P-23536 in throttle body, **No. 70** in main body, Idle Tube **No. 70** P-19424 **Adjustment:** Adjust to smooth running one barrel at a time, **OUT** to make richer and **IN** to make leaner, throttle at 7 to 8 M P H

VACUUM SPARK CONTROL—With throttle fully closed and **No. 56** drill in spark hole, edge of valve is located **.016"** + — **.004"** from **No. 56** drill

FLANGE GASKET—382048

SPECIAL TOOLS MENTIONED ABOVE CONTAINED IN TOOL KIT SER-459 SEE FORM 10-265A

MOTOR TUNE-UP DATA

SPARK PLUG—.025".
Clean and adjust at regular intervals.

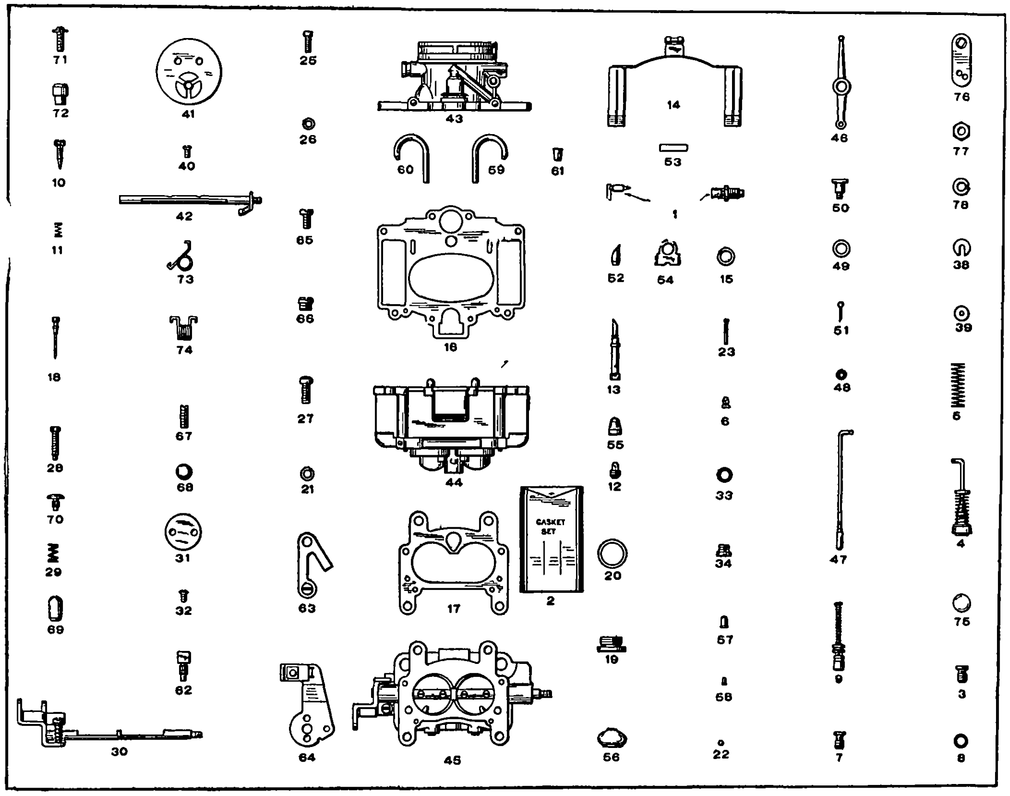
DISTRIBUTOR—.018".
Breaker gap set .018".
Replace if necessary.

IGNITION TIMING—
Set points to break when steel ball in the flywheel is opposite the pointer on case.

VALVES—Intake: }Automatic.
Exhaust:}

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Repair Parts Kit No. RK-520 (For Code No. 29-55A)
Repair Parts Kit No. RK-528 (For Code No. 29-55)

Key No	Part No.	Part Name	
1	P 22499	Float Needle Valve Clip and Seat	(NOT VAR)
2	J 5545 G	Complete Gasket Set	
3	P 23742	Pump By Pass Jet No 63	(NOT VAR)
*4	382741	Pump Piston Link and Spring	(Complete)
5	P 19526	Spring—Pump Duration	
6	P 18144	Pump Inlet Check Valve	
7	P 23361	Power By Pass Jet No 62	(NOT VAR.)
8	P 19448	Gasket—By Pass Jet	
9	P 22803	Vacuum Power Piston	
10	P 15478	Idle Needle Valve	
11	P 18710	Spring—Idle Needle Valve	
12	P 19442	Metering Jet **045″**	(VAR)
13	P 23567	Main Discharge Jet No 32	(NOT VAR.)
14	382269	Float with Lever	
15	P 2885	Gasket—Float Needle Valve Seat	
16	382255	Gasket—Air Horn	
17	P 22427	Gasket—Main Body	
18	P 19424	Idle Tube	
19	P 21767	Plug—Main Discharge Jet	
20	P 22851	Gasket—Main Discharge Jet Plug	
21	P 3157	Lockwasher—Main Body Attach Screw	
22	P 18772	Lead Ball	
23	P 22439	Fulcrum Pin—Float Lever	
25	P 2475	Screw—Air Horn Attaching	
26	P 6668	Lockwasher—Air Horn Attaching Screw	
27	P 709	Screw—Main Body Attaching	
28	P 18288	Screw—Throttle Stop	
29	P 15831	Spring—Throttle Stop Screw	
30	382736	Throttle Lever and Stem	
31	P 23537	Throttle Valve	
32	P 23486	Screw—Throttle Valve Attaching	
33	P 7338	Gasket—Check Valve Plug	
34	P 19716	Plug—Check Valve	
38	P 22046	Washer—Cup	
39	P 22045	Washer—Spring Retainer	
40	P 4522	Screw—Choke Valve Attach	
41	P 23825	Choke Valve	
42	P 23826	Choke Stem and Lever	
*43	382696	Assy —Air Horn	
44	382054	Assy —Main Body **1-1/32″** Venturi (complete with H S Bleeder Idle Air Bleed and Pump Disch Tubes)	(VAR)
45	382740	Assy —Throttle Body **No 54-58** Idle Disch Holes **No 56** Spark Hole	(VAR)
*46	382688	Pump Lever	

Key No	Part No	Part Name	
47	P 22620	Pump Rod	
48	P 9394	Washer—Pump Rod	
49	P 19820	Spring—Washer—Pump Lever Fulcrum Screw	
50	P 20611	Fulcrum Screw—Pump Lever	
51	P 7170	Cotter Pin—Pump Link	
52	P 23536	Bleeder—Idle Air No 36	(NOT VAR)
53	P 22523	Clip—Float Needle Valve	
54	P 22441	Hanger—Float	
55	P 23858	Strainer—Check Valve	
*56	382242	Boot—Pump Link	
57	P 15459	Plug—Idle Disch Drill Hole	
58	P 15458	Plug—Idle Disch Hole	
59	P 23245	Tube—Pump Disch —Right No 65	(NOT VAR)
60	P 23246	Tube—Pump Disch —Left No 65	(NOT VAR.)
61	P 19430	Wedge—Pump Disch Tubes	
62	P 14017	Stop—Throttle Lever	
63	P 23564	Lever—Choke	
	P 9270	Screw—Wire Conn	
64	P 18561	Tube Holder	
	P 18560	Holder—Tube	
	P 11561	Clamp—Tube Holder	
	P 12868	Screw—Tube Holder Clamp	
	P 8806	Nut—Tube Holder Clamp Screw	
65	P 17093	Screw—Choke Tube Holder Attach	
66	P 6406	Plug—Fuel Level Sight	
67	P 23828	Plug—Vac Channel Hollow Screw	
68	P 8495	Plug—Expansion	
69	P 23985	Bleeder—High Speed **No 70**	(VAR)
70	P 19818	Cap—Choke Stem	
71	P 17059	Screw—Choke Lever Fulcrum	
72	P 17058	Bushing—Choke Lever Fulcrum Screw	
73	P 18563	Spring—Choke Valve Return	
74	P 18558	Spring—Choke Lever Return	
75	P 12777	Plug—Welch—Vent Tube Boss	
76	P 22894	Lever—Pump Rod	
77	P 2290	Nut—Pump Rod Lever	
78	P 1791	Lockwasher—Pump Rod Lever Nut	

*When ordering parts for Carbs with Code No 29 55 having Symbol No 357433 specify—

P 23349 Pump Piston Link and Spring instead of 382741 Key No 4
P 24555 Air Horn instead of 382696 Key No 43
P 22430 Pump Lever instead of 382688 Key No 46
P 23745 Pump Link Boot instead of 382242 Key No 56

BENDIX PRODUCTS DIVISION

SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

Printed in U S A

STROMBERG SFG-4 CARBURETOR
(WITH GOVERNOR)

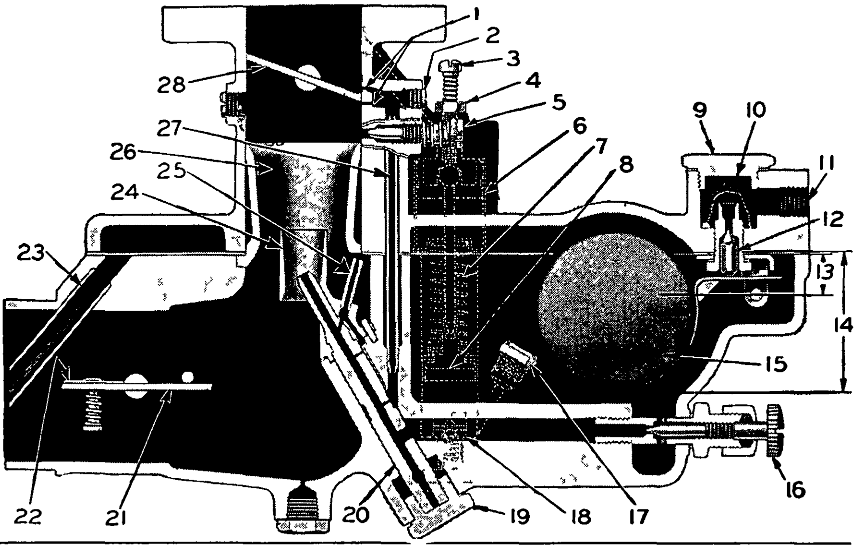
STROMBERG NO 380013 (CODE NO 29-53A) WHITE SYMBOL NO 356127

SIZE 1-3/4" UPDRAFT S A E 3-5/16" FLANGE CENTERS TAPPED 7/16"-14

1940
WHITE
"30-A" ENGINE
3-7/8" x 4-1/2"—6 cyl.

PARTS ILLUSTRATED

1. Idle Discharge Holes
2. Idle Discharge Plug
3. Pump Adjustment Screw
4. Pump Adjustment Lock Screw
5. Idle Needle Valve
6. Vacuum Piston
7. Accelerating Pump Spring
8. Accelerating Pump Piston
9. Strainer Plug
10. Strainer
11. Gasoline Inlet
12. Float Needle Valve and Seat
13. Fuel Level (see instructions)
14. Float Setting (see instructions)
15. Float
16. Adjustable Metering Jet
17. Check Valve
18. Combination Power and Pump By-Pass Jet
19. Main Discharge Jet Nut
20. Main Discharge Jet
21. Choke Valve
22. Choke Poppet Valve
23. Vent Tube
24. Small Venturi
25. High Speed Bleed
26. Large Venturi
27. Idle Tube
28. Throttle Valve



Note—Specifications below are for latest production; previous major changes listed on parts page.

FUEL LEVEL—For measuring fuel level it is advisable to use on open vessel with a leveled top, large enough to support the throttle valve body and to accommodate the float assembly Place main body gasket between body and vessel before checking Connect gas line to inlet in throttle body and allow gas to feed into measuring vessel at **2 lbs.** pressure until flow is stopped by the closing of the float needle valve Fuel level should measure **7/8"** below top surface of vessel (without gasket), use standard depth gauge for measuring fuel level To correct fuel level hold throttle body in inverted position and set float to measure **2-9/32"** from top of float to gasket surface which will give approximate fuel level, change if necessary.

MAIN METERING SYSTEM — Venturi **1-5/16"**; P-17498, Main Discharge Jet **No. 25,** P-17250, (**Tool T-20180** used to remove main disch jet plug) High Speed Bleeder **No. 70** P-16320, Main Metering Jet **.057"** P-15384, (**Tool T-20139**). (Use new P-21372 main discharge jet gasket when replacing main discharge jet)

POWER SYSTEM—Combination Power and Pump By-Pass Jet **.036"** P-16786 (**Tool T-20138**); Power System is brought into operation at **4"** to **6"** of manifold vacuum Use **Tool T-23785** to remove pump inlet check valve

ACCELERATION—Pump stroke adjusted by adjustment screw above pump vacuum piston Screw "in" to shorten stroke, "out" to lengthen Adjustment screw to be set **1/8"** below top surface of throttle body flange

IDLE SYSTEM—Idle discharge holes **Nos. 52-54.** With throttle valve fully closed and **No. 52** drill in idle hole, edge of valve is located **Flush** + or — **.004"** from **No. 52** drill Idle tube **No. 72** P-24414, Adjust to smooth running, **IN** to make richer, **OUT** to make leaner

VACUUM SPARK CONTROL—With throttle fully closed and **No. 56** drill in spark hole, edge of valve is located **Flush** from **No. 56** drill

FLANGE GASKET—P-24771

SPECIAL TOOLS REQUIRED—Use White complete Tool Kit **SER-388**; T-20139 Main Disch. and Metering Jet, T-20138 By-Pass jet socket wrench; T-20180 Main Disch Jet plug socket wrench, T-23785 Check valve socket wrench, T-20182 Bushing and vent tube remover, T-24972 Pump Burette gauge. T-25034 Float Needle Valve Seat Socket Wrench.

MOTOR TUNE-UP DATA

SPARK PLUG—.025".
Clean and adjust at regular intervals.

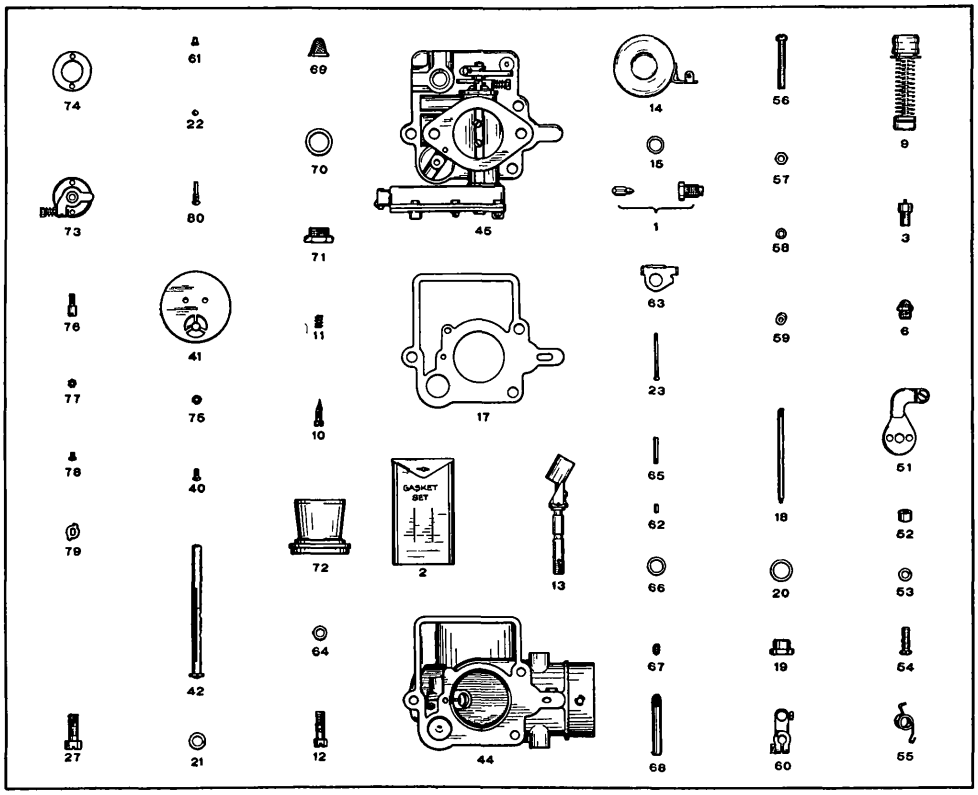
DISTRIBUTOR—.018".
Breaker gap set .018".
Replace if necessary.

IGNITION TIMING—
Set points to break when steel ball in the flywheel is opposite the pointer on case.

VALVES—Intake: } Automatic.
Exhaust: }

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Key No	Part No	Part Name	
1	P 18811	Float Needle Valve and Seat 140	(NOT VAR)
2	J 4270 G	Complete Gasket Set	
3	P 16786	Pump By Pass Jet **036′**	VAR)
6	P 23135	Pump Inlet Check Valve	
9	P 23126	Vacuum Power Piston	
10	P 15478	Idle Needle Valve	
11	P 18710	Spring—Idle Needle Valve	
12	P 15384	Metering Jet **057″**	(VAR)
13	P 17250	Main Discharge Jet **No 25**	(VAR)
14	P 17501	Float with Lever	
15	P 14364	Gasket—Float Needle Valve Seat	
17	P 17496	Gasket—Main Body	
18	P 24414	Idle Tube	
19	P 16762	Plug—Main Discharge Jet	
20	P 5636	Gasket—Main Discharge Jet Plug	
21	P 5364	Lockwasher—Main Body Attach Screw	
22	P-18772	Lead Ball	
23	P 16760	Fulcrum Pin—Float Lever	
27	P 16849	Screw—Main Body Attaching	
40	P 15259	Screw—Choke Valve Attach	
41	P 17515	Choke Valve	
42	P 24277	Choke Stem and Lever	
44	P 24840	Assy —Main Body	
45	382114	Assy —Throttle Body **No 52-54** Idle Holes **No 56** Spark Hole complete with Throttle Stem Valve Lever and Governor	(VAR)
51	P 19978	Choke Tube Holder	
	P 16807	Screw—Choke Tube Clamp	
52	P 24278	Bushing—Choke Tube Holder Spacer	
53	P 3157	Lockwasher—Choke Tube Holder Attach Screw	
54	P 24282	Screw—Choke Tube Holder Attach	
55	P 17468	Spring—Choke Valve Return	
56	P 19911	Screw—Vacuum Power Piston Adj	
57	P 14618	Nut—Vacuum Power Piston Adj Screw	
58	P 22713	Washer—Idle Tube	
59	P 14160	Cork Washer—Idle Tube	
60	P 16799	Choke Lever	
	P 13046	Screw—Choke Wire Clamp	
	P 18927	Screw—Choke Lever Clamp	
61	P 15458	Plug—Idle Disch Channel	
62	P 16850	Pin—Main Disch Jet Locating	
63	P 17500	Float Hanger	
64	P 6855	Gasket—Metering Jet	
65	P 16320	High Speed Bleeder **No 70**	(VAR)
66	P 21372	Gasket—Main Disch Jet	
67	P 14745	Set Screw—Vent Tube	
68	P 17499	Vent Tube	
69	P 12958	Strainer—Gasoline	
70	P 20235	Gasket—Strainer Plug	
71	P 17140	Plug—Strainer	
72	P-17498	Venturi **1-5/16″**	(VAR)
73	P-24754	Throttle Stop and Stem Bearing	
	P 18552	Screw—Slow Idle Adj	
	P 15831	Spring—Slow Idle Adj Screw	
74	P 24397	Gasket—Throttle Stop and Stem Bearing	
75	P 1693	Lockwasher—Choke Valve Attach Screw	
76	P 24389	Screw—Throttle Stop and Stem Bearing Attach	
77	P 24381	Lockwasher—Throttle Stem Driver Screw	
78	P 24413	Screw—Throttle Stem Driver	
79	P 24412	Driver—Throttle Stem	
80	P 16764	Pin—Choke Valve Stop	

BENDIX PRODUCTS DIVISION
SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

STROMBERG AAV-2 CARBURETOR

STROMBERG NO 380012 (CODE NO 29-50A) WHITE SYMBOL NO. 379074

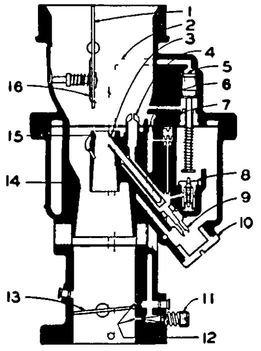
SIZE 1-1/4' DUAL D D 4-HOLE FLANGE

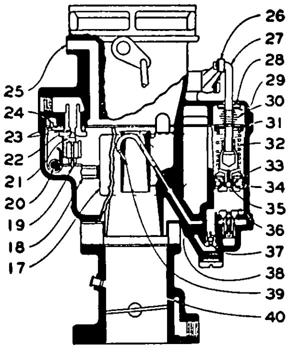
1940
WHITE

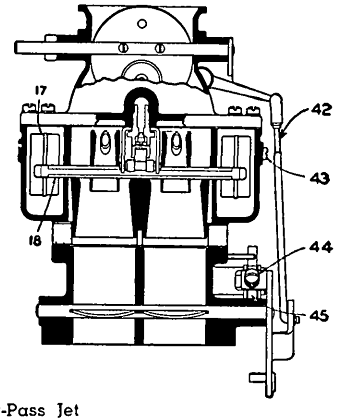
"20-A" ENGINE

3-7/8" x 5-1/8"—6 cyl

PARTS ILLUSTRATED







1 Choke Valve
2 Vacuum Channel
3 Main Discharge Jet
4 High Speed Bleeder
5 Power Vacuum Piston
6 Idle Air Bleeder
7 Idle Tube
8 Power By Pass Jet
9 Main Metering Jet
10 Main Discharge Jet Plug
11 Idle Needle Valve
12 Idle Discharge Holes
13 Throttle Valve
14 Primary Venturi
15 Auxiliary Venturi
16 Choke Relief Valve
17 Float
18 Float Lever
19 Float Needle Valve Clip
20 Float Fulcrum Pin
21 Float Needle Valve
22 Float Needle Valve Seat
23 Float Hanger Gaskets
24 Float Hanger
25 Float Chamber Vent
26 Pump Fulcrum Arm
27 Pump Piston Link
28 Felt Dust Washer
29 Retainer Washer
30 Dust Washer Spring
31 Spring Retainer Washer
32 Pump Duration Spring
33 Pump Piston
34 Piston Expansion Spring
35 Pump Relief Valve
36 Pump By-Pass Jet
37 Pump Inlet Check Valve
38 Pump Discharge Channel
39 Pump Discharge Nozzle
40 Spark Control Hole
42 Pump Rod
43 Fuel Level Sight Plug
44 Throttle Stop Screw
45 Fast Idle Cam

Note—Specifications below are for latest production; previous major changes listed on parts page.

FUEL LEVEL—Measure **5/8"** below top surface of float chamber (without gasket) or level with bottom of level sight hole To correct fuel level, hold air horn in inverted position Place **Tool T-24971** on gasket Tops of floats should be **Flush** with tops of vertical guides with brass float and **1/32"** below guides for tin plated float, which will give approximate fuel level, change if necessary Sides of floats should be parallel to guides of tool without drag.

MAIN METERING SYSTEM—Venturi **1-1/8"**; Main Discharge Jet **No. 36** P-22795 (**Tool T-24967**); High Speed Bleeder **No. 65** in body. Main Metering Jet **.057"** P-22660 (**Tool T-24924**); Use **Tool T-19099** Screwdriver for removing main jet plug Main metering system controls the flow of fuel up to approximately 65 to 70 M P. H.

POWER SYSTEM—Power By-Pass Jet **No. 52** P-23667, Power jet to come into operation at **4"** to **6"** of manifold vacuum, which is approximately 65 to 70 M P H (**Tool T-24733**) used to remove vacuum power piston

ACCELERATION—Pump Discharge Nozzles **2 No. 70** in main body, Pump By-Pass Jet **No. 63** P-23742, Pump capacity **18** to **22** c c. per 10 fast and slow strokes, with pump rod link set in minimum setting Pump action takes place during acceleration period only (**Tool T-24972.**)

IDLE SYSTEM—Idle Discharge holes **Nos. 54-58.** With throttle valve fully closed and **No. 58** drill in idle hole, edge of valve is located **.030"** + — **.004"** from **No. 58** drill, Idle Air Bleed **No. 36** P-23536 in throttle body, **No. 60** in main body, Idle Tube **No. 66** P-23527. **Adjustment:** Adjust to smooth running one barrel at a time, **OUT** to make richer and **IN** to make leaner, throttle at 7 to 8 M P. H

VACUUM SPARK CONTROL—With throttle fully closed and **No. 56** drill in spark hole, edge of valve is located **.015"** + — **.004"** from **No. 56** drill

FLANGE GASKET—382048

SPECIAL TOOLS MENTIONED ABOVE CONTAINED IN TOOL KIT SER-459 SEE FORM 10-265A

MOTOR TUNE-UP DATA

SPARK PLUG—.025".
Clean and adjust at regular intervals.

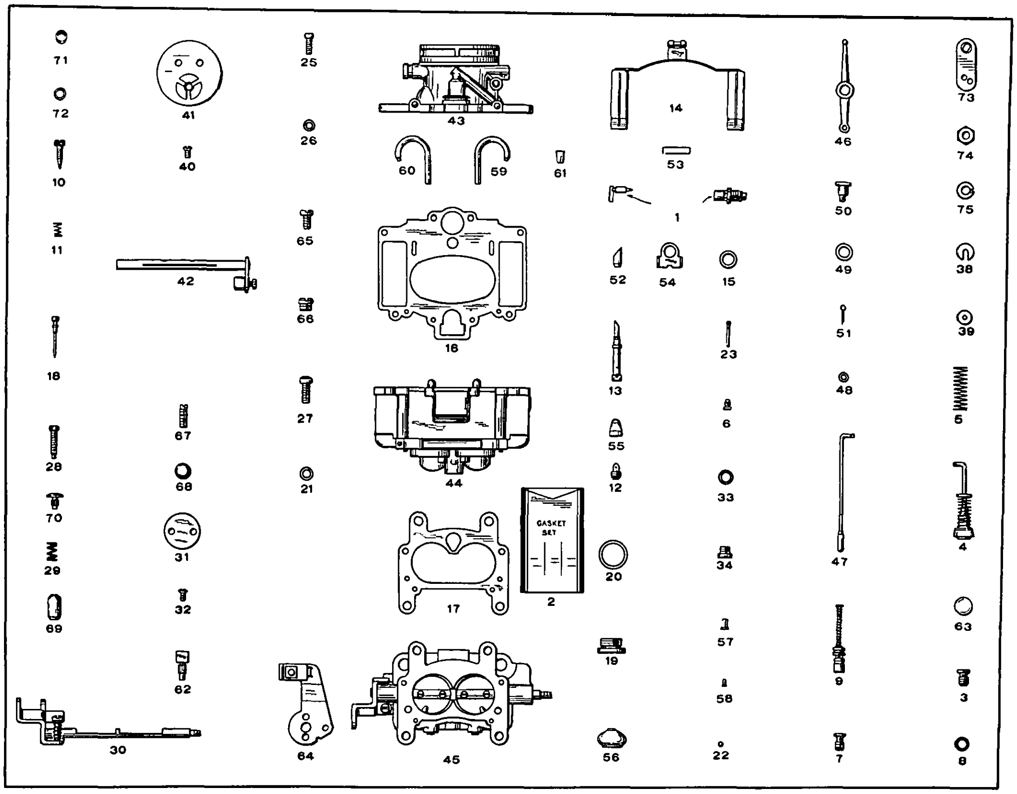
DISTRIBUTOR—.018".
Breaker gap set .018".
Replace if necessary.

IGNITION TIMING—
Set points to break when steel ball in the flywheel is opposite the pointer on case.

VALVES—Intake: } Automatic.
Exhaust: }

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Repair Parts Kit No. RK-507 (For Code No. 29-50)
Repair Parts Kit No. RK-527 (For Code No. 29-50A)

Bin Location	Key No	Part No	Part Name	
	1	**P-22499**	Float Needle Valve Clip and Seat 101″	**(NOT VAR)**
	2	**J-5545-G**	Complete Gasket Set	
	3	**P-23742**	Pump By Pass Jet No 63	**(NOT VAR)**
	4	**382686**	Pump Piston Link and Spring	**(Complete)**
	5	**P-22870**	Spring—Pump Duration	
	6	**P-18144**	Pump Inlet Check Valve	
	7	**P-23667**	Power By Pass Jet No 52	**(NOT VAR)**
	8	**P-19448**	Gasket—By Pass Jet	
	9	**P-22803**	Vacuum Power Piston	
	10	**P-15478**	Idle Needle Valve	
	11	**P-18710**	Spring—Idle Needle Valve	
	12	**P-22660**	Metering Jet **057″**	**(VAR)**
	13	**P-22795**	Main Discharge Jet No 36	**(NOT VAR)**
	14	**382581**	Float with Lever	
	15	**P-2885**	Gasket—Float Needle Valve Seat	
	16	**382255**	Gasket—Air Horn	
	17	**P-22427**	Gasket—Main Body	
	18	**P-23527**	Idle Tube	
	19	**P-21767**	Plug—Main Discharge Jet	
	20	**P-22851**	Gasket—Main Discharge Jet Plug	
	21	**P-3157**	Lockwasher—Main Body Attach Screw	
	22	**P-18772**	Lead Ball	
	23	**P-22439**	Fulcrum Pin—Float Lever	
	25	**P-2475**	Screw—Air Horn Attaching	
	26	**P-6668**	Lockwasher—Air Horn Attaching Screw	
	27	**P-709**	Screw—Main Body Attaching	
	28	**P-18288**	Screw—Throttle Stop	
	29	**P-15831**	Spring—Throttle Stop Screw	
	30	**382736**	Throttle Lever and Stem	
	31	**P-23537**	Throttle Valve	
	32	**P-23487**	Screw—Throttle Valve Attaching	
	33	**P-7338**	Gasket—Check Valve Plug	
	34	**P-19716**	Plug—Check Valve	
	38	**P-22046**	Washer—Cup	
	39	**P-22045**	Washer—Spring Retainer	
	40	**P-4522**	Screw—Choke Valve Attach	
	41	**P-23825**	Choke Valve	
	42	**382144**	Choke Stem and Lever	
	43	**382696**	Assy —Air Horn	
	44	**382053**	Assy —Main Body **1-1/8″** Venturi (complete with H S Bleeder Idle Air Bleed and Pump Disch Tubes	**(VAR)**
	45	**382740**	Assy —Throttle Body **No 54-58** Idle Disch Holes **No 56** Spark Hole	**(VAR)**
	46	**382688**	Pump Lever	
	47	**P-22620**	Pump Rod	
	48	**P-9394**	Washer—Pump Rod	
	49	**P-19820**	Spring—Washer—Pump Lever Fulcrum Screw	
	50	**P-20611**	Fulcrum Screw—Pump Lever	
	51	**P-7170**	Cotter Pin—Pump Link	
	52	**P-23536**	Bleeder—Idle Air No 36	**(NOT VAR)**
	53	**P-22523**	Clip—Float Needle Valve	
	54	**P-22441**	Hanger—Float	
	55	**P-23858**	Strainer—Check Valve	
	56	**382242**	Boot—Pump Link	
	57	**P-15459**	Plug—Idle Disch Drilling Hole	
	58	**P-15458**	Plug—Idle Disch Hole	
	59	**P-23517**	Tube—Pump Disch —Right 2 No 70	**(NOT VAR)**
	60	**P-23516**	Tube—Pump Disch —Left 2 No 70	**(NOT VAR)**
	61	**P-19430**	Wedge—Pump Disch Tube	
	62	**P-14017**	Stop—Throttle Lever	
	63	**P-12777**	Plug—Welch—Vent Tube Boss	
	64	**P-11969**	Tube Holder	
		P-11545	Holder	
		P-11561	Clamp	
		P-12868	Screw	
		P-8806	Nut	
	65	**P-17093**	Screw—Choke Tube Holder Attach	
	66	**P-6406**	Plug—Fuel Level Sight	
	67	**P-23828**	Plug—Vacuum Channel Hollow Screw	
	68	**P-8495**	Plug—Expansion	
	69	**P-22369**	Bleeder—High Speed **No 63**	**(VAR)**
	70	**P-19818**	Cap—Choke Stem	
	71	**P-13828**	Bushing—Choke Lever Spacer	
	72	**P-23568**	Washer—Choke Lever Spacer	
	73	**P-22894**	Lever—Pump Rod	
	74	**P-2290**	Nut—Pump Rod Lever	
	75	**P-1791**	Lockwasher—Pump Rod Lever Nut	

*When ordering parts for Carbs with Code No 29 50 having Symbol No 357408 specify—

P 23322 Pump Piston Link and Spring instead of 382686 Key No 4
P 24555 Air Horn instead of 382696 Key No 43
P 22430 Pump Lever instead of 382688 Key No 46
P 23745 Pump Link Boot instead of 382242 Key No 56

BENDIX PRODUCTS DIVISION

SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

Printed in U. S A

STROMBERG SFG-4 CARBURETOR

(WITH GOVERNOR)

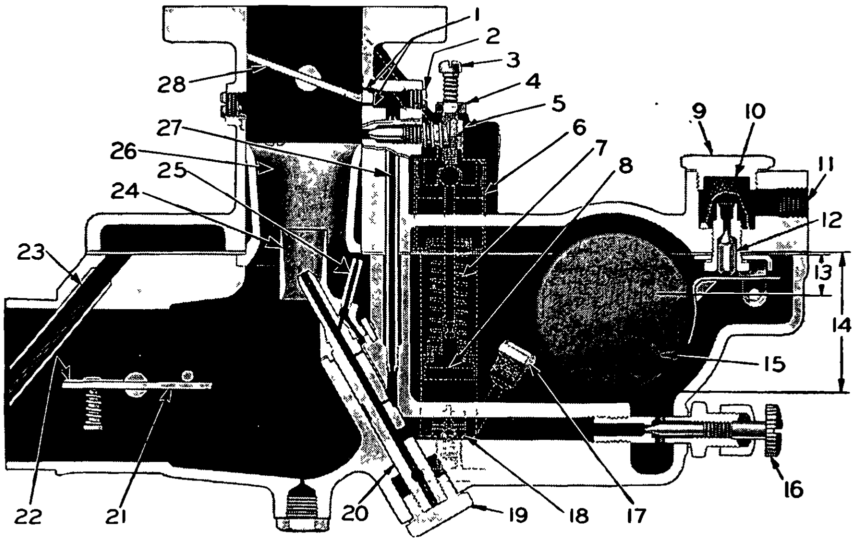
STROMBERG NO. A-17864 (CODE NO. 29-36) WHITE SYMBOL NO. 334090

SIZE: 1-3/4″ UPDRAFT S.A.E. 3-5/16″ FLANGE CENTER TAPPED 7/16″-14

1939
WHITE
"20-A" ENGINE
3-7/8 x 5-1/8—6 cyl.

PARTS ILLUSTRATED

1. Idle Discharge Holes
2. Idle Discharge Plug
3. Pump Adjustment Screw
4. Pump Adjustment Lock Screw
5. Idle Needle Valve
6. Vacuum Piston
7. Accelerating Pump Spring
8. Accelerating Pump Piston
9. Strainer Plug
10. Strainer
11. Gasoline Inlet
12. Float Needle Valve and Seat
13. Fuel Level (see instructions)
14. Float Setting (see instructions)
15. Float
16. Adjustable Metering Jet
17. Check Valve
18. Combination Power and Pump By-Pass Jet
19. Main Discharge Jet Nut
20. Main Discharge Jet
21. Choke Valve
22. Choke Poppet Valve
23. Vent Tube
24. Small Venturi
25. High Speed Bleed
26. Large Venturi
27. Idle Tube
28. Throttle Valve



Note—Specifications below are for latest production; previous major changes listed on parts page.

FUEL LEVEL—For measuring fuel level it is advisable to use an open vessel with a leveled top, large enough to support the throttle valve body and to accommodate the float assembly. Place main body gasket between body and vessel before checking. Connect gas line to inlet in throttle body and allow gas to feed into measuring vessel at **2 lbs.** pressure until flow is stopped by the closing of the float needle valve. Fuel level should measure **7/8″** below top surface of vessel (without gasket); use standard depth gauge for measuring fuel level. To correct fuel level hold throttle body in inverted position and set float to measure **2-9/32″** from top of float to gasket surface which will give approximate fuel level; change if necessary.

MAIN METERING SYSTEM—Venturi **1-7/16″**, P-17498; Main Discharge Jet **No. 28**, P-17250; (**Tool T-20180** used to remove main disch. jet plug). High Speed Bleeder **No. 65** P-16320; Main Metering Jet **.066″** P-15384, (**Tool T-20139**). (Use new P-21372 main discharge jet gasket when replacing main discharge jet.)

POWER SYSTEM—Combination Power and Pump By-Pass Jet **.076″** P-16786 (**Tool T-20138**); Power System is brought into operation at **4″** to **6″** of manifold vacuum. Use **Tool T-23785** to remove pump inlet check valve.

ACCELERATION—Pump stroke adjusted by adjustment screw above pump vacuum piston. Screw "in" to shorten stroke, "out" to lengthen. Adjustment screw to be set **1/8″** below top surface of throttle body flange.

IDLE SYSTEM—Idle discharge holes **Nos. 52-56.** With throttle valve fully closed and **No. 52** drill in idle hole, edge of valve is located **Flush** + or — **.004″** from **No. 52** drill. Idle tube **No. 72** P-24414; Adjust to smooth running, **IN** to make richer, **OUT** to make leaner.

VACUUM SPARK CONTROL—With throttle fully closed and **No. 56** drill in spark hole, edge of valve is located **Flush** from **No. 56** drill.

FLANGE GASKET—P-24771.

SPECIAL TOOLS REQUIRED—Use White complete Tool Kit **SER-388**; T-20139 Main Disch. and Metering Jet; T-20138 By-Pass jet socket wrench; T-20180 Main Disch. Jet plug socket wrench; T-23785 Check valve socket wrench; T-20182 Bushing and vent tube remover; T-24972 Pump Burette gauge.

MOTOR TUNE-UP DATA

SPARK PLUG—.025″.
Clean and adjust at regular intervals.

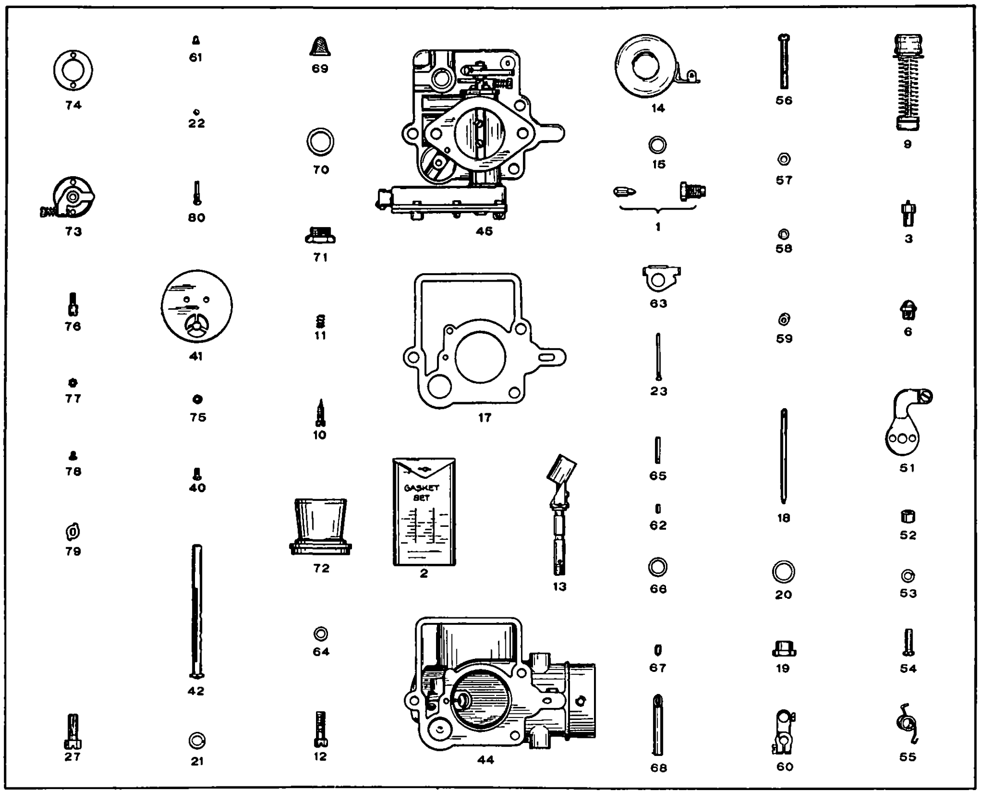
DISTRIBUTOR—.018″.
Breaker gap set .018″.
Replace if necessary.

IGNITION TIMING—
Set points to break when steel ball in the flywheel is opposite the pointer on case.

VALVES—Intake: } Automatic.
Exhaust: }

SERVICE RECOMMENDATION—Check heat control valve to see that it is free druing its entire travel and that thermostat is properly positioned.

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No	Part No	Part Name	
	1	P-18811	Float Needle Valve & Seat 140″	(NOT VAR
	2	J-4270-G	Complete Gasket Set	
	3	P-16786	Pump By Pass Jet 076′	(NOT VAR)
	6	P-23135	Pump Inlet Check Valve	
	9	P-24549	Vacuum Power Piston	
	10	P-15478	Idle Needle Valve	
	11	P-18710	Spring—Idle Needle Valve	
	12	P-15384	Metering Jet 066′	(VAR)
	13	P-17250	Main Discharge Jet No 28	(NOT VAR)
	14	P-17501	Float with Lever	
	15	P-14364	Gasket—Float Needle Valve Seat	
	17	P-17496	Gasket—Main Body	
	18	P-24414	Idle Tube	
	19	P-16762	Plug—Main Discharge Jet	
	20	P-5636	Gasket—Main Discharge Jet Plug	
	21	P-5364	Lockwasher—Main Body Attach Screw	
	22	P-18772	Lead Ball	
	23	P-16760	Fulcrum Pin—Float Lever	
	27	P-16849	Screw—Main Body Attaching	
	40	P-15259	Screw—Choke Valve Attach	
	41	P-17515	Choke Valve	
	42	P-24277	Choke Stem and Lever	
	44	P-24840	Assy —Main Body	
	45	382135	Assy —Throttle Body **No** **52-56** Idle Hole **No. 56** Spark Hole complete with Throttle Lever Stem Valve and Governor	(VAR)
	51	P-19978	Choke Tube Holder	
		P-16807	Screw—Choke Tube Clamp	
	52	P-24278	Bushing—Choke Tube Holder Spacer	
	53	P-3157	Lockwasher—Choke Tube Holder Attach Screw	
	54	P-24282	Screw—Choke Tube Holder Attach	
	55	P-17468	Spring—Choke Valve Return	
	56	P-19911	Screw—Vacuum Power Piston Adj	
	57	P-14618	Nut—Vacuum Power Piston Adj Screw	
	58	P-22713	Washer—Idle Tube	
	59	P-14160	Cork Washer—Idle Tube	
	60	P-16799	Choke Lever	
		P-13046	Screw—Choke Wire Clamp	
		P-18927	Screw—Choke Lever Clamp	
	61	P-15458	Plug—Idle Disch Channel	
	62	P-16850	Pin—Main Disch Jet Locating	
	63	P-17500	Float Hanger	
	64	P-6855	Gasket—Metering Jet	
	65	P-16320	High Speed Bleeder **No 65**	(VAR)
	66	P-21372	Gasket—Main Disch Jet	
	67	P-14745	Set Screw—Vent Tube	
	68	P-17499	Vent Tube	
	69	P-12958	Strainer—Gasoline	
	70	P-20235	Gasket—Strainer Plug	
	71	P-17140	Plug—Strainer	
	72	P-17498	Venturi **1-7/16″**	(VAR)
	73	P-24754	Throttle Stop and Stem Bearing	
		P-18552	Screw—Slow Idle Adj	
		P-15831	Spring—Slow Idle Adj Screw	
	74	P-24397	Gasket—Throttle Stop and Stem Bearing	
	75	P-1693	Lockwasher—Choke Valve Attach Screw	
	76	P-24389	Screw—Throttle Stop and Stem Bearing Attach	
	77	P-24381	Lockwasher—Throttle Stem Driver Screw	
	78	P-24413	Screw—Throttle Stem Driver	
	79	P-24412	Driver—Throttle Stem	
	80	P-16764	Pin—Choke Valve Stop	

BENDIX PRODUCTS DIVISION
SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

Printed in U S A.

STROMBERG SFG-4 CARBURETOR

(WITH GOVERNOR)

STROMBERG NO. A-17874 (CODE NO. 29-37A) WHITE SYMBOL NO. 345564

SIZE: 1-3/4″ UPDRAFT S.A.E. 3-5/16″ FLANGE CENTERS TAPPED 7/16″-14

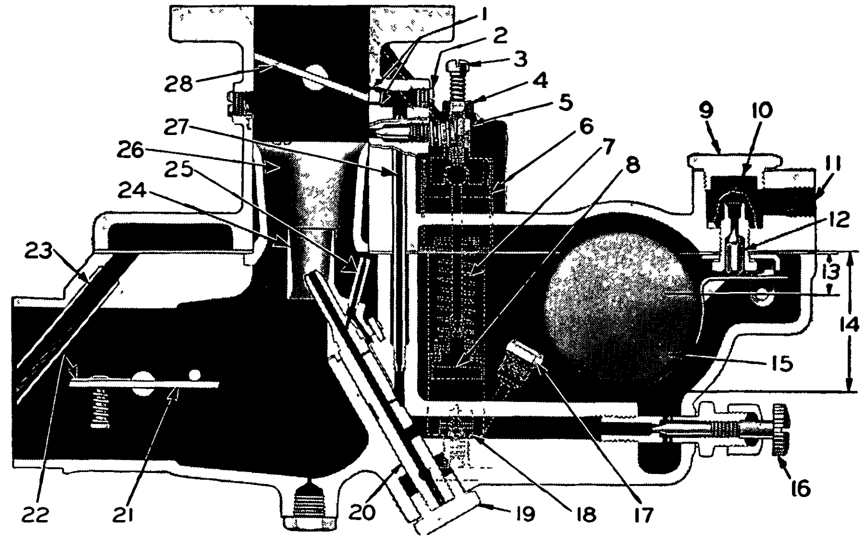
1939
WHITE

"30-A" ENGINE

3-7/8 x 4-1/2—6 cyl.

PARTS ILLUSTRATED

1. Idle Discharge Holes
2. Idle Discharge Plug
3. Pump Adjustment Screw
4. Pump Adjustment Lock Screw
5. Idle Needle Valve
6. Vacuum Piston
7. Accelerating Pump Spring
8. Accelerating Pump Piston
9. Strainer Plug
10. Strainer
11. Gasoline Inlet
12. Float Needle Valve and Seat
13. Fuel Level (see instructions)
14. Float Setting (see instructions)
15. Float
16. Adjustable Metering Jet
17. Check Valve
18. Combination Power and Pump By-Pass Jet
19. Main Discharge Jet Nut
20. Main Discharge Jet
21. Choke Valve
22. Choke Poppet Valve
23. Vent Tube
24. Small Venturi
25. High Speed Bleed
26. Large Venturi
27. Idle Tube
28. Throttle Valve



Note—Specifications below are for latest production; previous major changes listed on parts page.

FUEL LEVEL—For measuring fuel level it is advisable to use an open vessel with a leveled top, large enough to support the throttle valve body and to accommodate the float assembly. Place main body gasket between body and vessel before checking. Connect gas line to inlet in throttle body and allow gas to feed into measuring vessel at **2 lbs.** pressure until flow is stopped by the closing of the float needle valve. Fuel level should measure **7/8″** below top surface of vessel (without gasket); use standard depth gauge for measuring fuel level. To correct fuel level hold throttle body in inverted position and set float to measure **2-9/32″** from top of float to gasket surface which will give approximate fuel level; change if necessary.

MAIN METERING SYSTEM—Venturi **1-5/16″**, P-17498; Main Discharge Jet **No. 25,** P-17250; (**Tool T-20180** used to remove main disch. jet plug). High Speed Bleeder **No. 70** P-16320; Main Metering Jet **.057″** P-15384, (**Tool T-20139**). (Use new P-21372 main discharge jet gasket when replacing main discharge jet.)

POWER SYSTEM—Combination Power and Pump By-Pass Jet **.036″** P-16786 (**Tool T-20138**); Power System is brought into operation at **4″** to **6″** of manifold vacuum. Use **Tool T-23785** to remove pump inlet check valve.

ACCELERATION—Pump stroke adjusted by adjustment screw above pump vacuum piston. Screw "in" to shorten stroke, "out" to lengthen. Adjustment screw to be set **1/8″** below top surface of throttle body flange.

IDLE SYSTEM—Idle discharge holes **Nos. 52-54.** With throttle valve fully closed and **No. 52** drill in idle hole, edge of valve is located **Flush** + or — **.004″** from **No. 52** drill. Idle tube **No. 70** P-24589; Adjust to smooth running, **IN** to make richer, **OUT** to make leaner.

VACUUM SPARK CONTROL—With throttle fully closed and **No. 56** drill in spark hole, edge of valve is located **Flush** from **No. 56** drill.

FLANGE GASKET—P-24771.

SPECIAL TOOLS REQUIRED—Use White complete Tool Kit **SER-388**; T-20139 Main Disch. and Metering Jet; T-20138 By-Pass jet socket wrench; T-20180 Main Disch. Jet plug socket wrench; T-23785 Check valve socket wrench; T-20182 Bushing and vent tube remover; T-24972 Pump Burette gauge.

MOTOR TUNE-UP DATA

SPARK PLUG—.025″.
Clean and adjust at regular intervals.

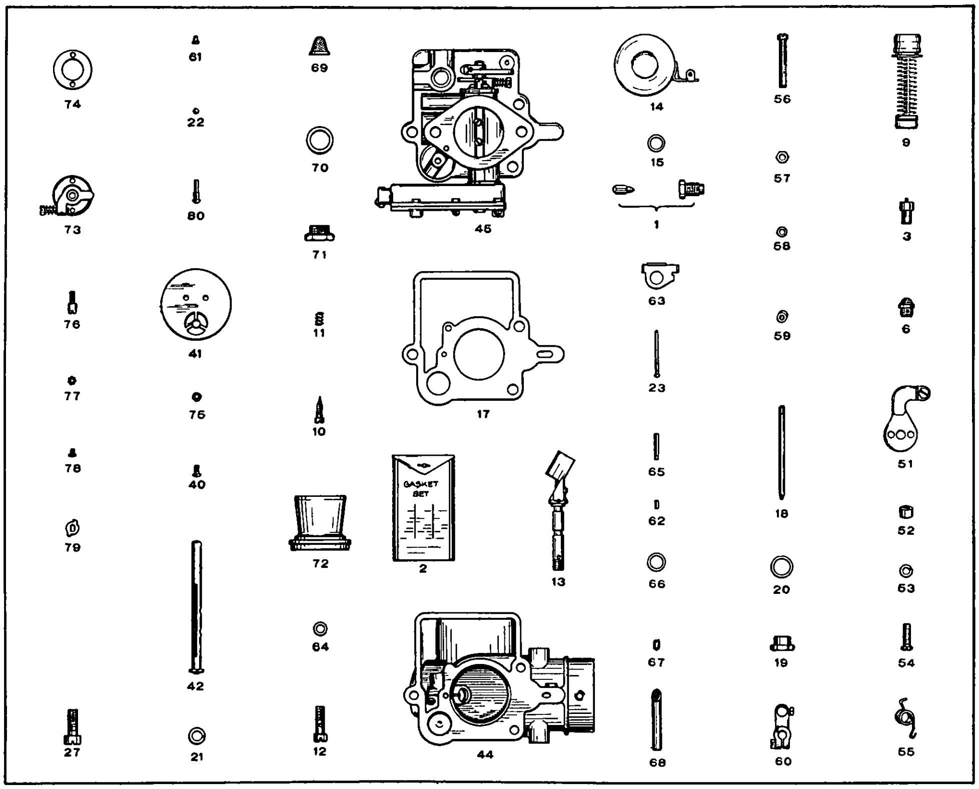
DISTRIBUTOR—.018″.
Breaker gap set .018″.
Replace if necessary.

IGNITION TIMING—
Set points to break when steel ball in the flywheel is opposite the pointer on case.

VALVES—Intake: }
Exhaust: } Automatic.

SERVICE RECOMMENDATION—**Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.**

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No	Part No.	Part Name	
	1	P-18811	Float Needle Valve & Seat 140"	(NOT VAR)
	2	J-4270-G	Complete Gasket Set	
	3	P-16786	Pump By Pass Jet 036"	(NOT VAR)
	6	P-23135	Pump Inlet Check Valve	
	9	P-24549	Vacuum Power Piston	
	10	P-15478	Idle Needle Valve	
	11	P-18710	Spring—Idle Needle Valve	
	12	P-15384	Metering Jet .057"	(VAR)
	13	P-17250	Main Discharge Jet No 25	(NOT VAR)
	14	P-17501	Float with Lever	
	15	P-14364	Gasket—Float Needle Valve Seat	
	17	P-17496	Gasket—Main Body	
	18	P-24414	Idle Tube	
	19	P-16762	Plug—Main Discharge Jet	
	20	P-5636	Gasket—Main Discharge Jet Plug	
	21	P-5364	Lockwasher—Main Body Attach Screw	
	22	P-18772	Lead Ball	
	23	P-16760	Fulcrum Pin—Float Lever	
	27	P-16849	Screw—Main Body Attaching	
	40	P-15259	Screw—Choke Valve Attach	
	41	P-17515	Choke Valve	
	42	P-24277	Choke Stem and Lever	
	44	P-24840	Assy —Main Body	
	45	382135	Assy —Throttle Body **No. 52-54** Idle Holes **No 56** Spark Hole complete with Throttle Stem Valve Lever and Governor	(VAR)
	51	P-19978	Choke Tube Holder	
		P-16807	Screw—Choke Tube Clamp	
	52	P-24278	Bushing—Choke Tube Holder Spacer	
	53	P-3157	Lockwasher—Choke Tube Holder Attach Screw	
	54	P-24282	Screw—Choke Tube Holder Attach	
	55	P-17468	Spring—Choke Valve Return	
	56	P-19911	Screw—Vacuum Power Piston Ad	
	57	P-14618	Nut—Vacuum Power Piston Adj Screw	
	58	P-22713	Washer—Idle Tube	
	59	P-14160	Cork Washer—Idle Tube	
	60	P-16799	Choke Lever	
		P-13046	Screw—Choke Wire Clamp	
		P-18927	Screw—Choke Lever Clamp	
	61	P-15458	Plug—Idle Disch Channel	
	62	P-16850	Pin—Main Disch Jet Locating	
	63	P-17500	Float Hanger	
	64	P-6855	Gasket—Metering Jet	
	65	P-16320	High Speed Bleeder **No. 70**	(VAR.)
	66	P-21372	Gasket—Main Disch Jet	
	67	P-14745	Set Screw—Vent Tube	
	68	P-17499	Vent Tube	
	69	P-12958	Strainer—Gasoline	
	70	P-20235	Gasket—Strainer Plug	
	71	P-17140	Plug—Strainer	
	72	P-17498	Venturi **1-5/16"**	(VAR.)
	73	P-24754	Throttle Stop and Stem Bearing	
		P-18552	Screw—Slow Idle Adj	
		P-15831	Spring—Slow Idle Adj Screw	
	74	P-24397	Gasket—Throttle Stop and Stem Bearing	
	75	P-1693	Lockwasher—Choke Valve Attach Screw	
	76	P-24389	Screw—Throttle Stop and Stem Bearing Attach	
	77	P-24381	Lockwasher—Throttle Stem Driver Screw	
	78	P-24413	Screw—Throttle Stem Driver	
	79	P-24412	Driver—Throttle Stem	
	80	P-16764	Pin—Choke Valve Stop	

BENDIX PRODUCTS DIVISION
SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

STROMBERG AAV-2 CARBURETOR

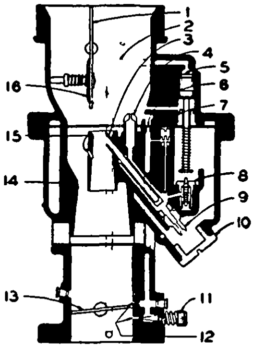
STROMBERG NO A-19152 (CODE NO 29-34A) WHITE SYMBOL NO 379071

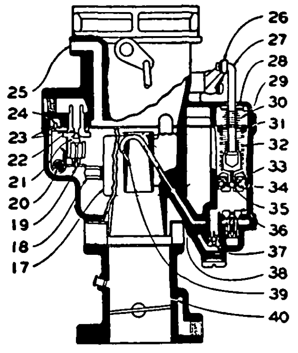
SIZE 1-1/4 DUAL D D 4-HOLE FLANGE

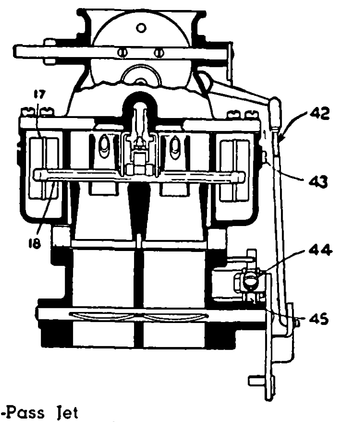
1939
WHITE

"30-A"—"120-A" ENGINE
3-7/8″ x 4-1/2″—6 cyl.
"140-A" ENGINE
3-7/8″ x 5-1/8″—6 cyl

PARTS ILLUSTRATED







1 Choke Valve
2 Vacuum Channel
3 Main Discharge Jet
4 High Speed Bleeder
5 Power Vacuum Piston
6 Idle Air Bleeder
7 Idle Tube
8 Power By Pass Jet
9 Main Metering Jet
10 Main Discharge Jet Plug
11 Idle Needle Valve
12 Idle Discharge Holes
13 Throttle Valve
14 Primary Venturi
15 Auxiliary Venturi
16 Choke Relief Valve
17 Float
18 Float Lever
19 Float Needle Valve Clip
20 Float Fulcrum Pin
21 Float Needle Valve
22 Float Needle Valve Seat
23 Float Hanger Gaskets
24 Float Hanger
25 Float Chamber Vent
26 Pump Fulcrum Arm
27 Pump Piston Link
28 Felt Dust Washer
29 Retainer Washer
30 Dust Washer Spring
31 Spring Retainer Washer
32 Pump Duration Spring
33 Pump Piston
34 Piston Expansion Spring
35 Pump Relief Valve
36 Pump By-Pass Jet
37 Pump Inlet Check Valve
38 Pump Discharge Channel
39 Pump Discharge Nozzle
40 Spark Control Hole
42 Pump Rod
43 Fuel Level Sight Plug
44 Throttle Stop Screw
45 Fast Idle Cam

Note—Specifications below are for latest production; previous major changes listed on Parts Page.

FUEL LEVEL—Measure **5/8″** below top surface of float chamber (without gasket) or level with bottom of level sight hole at **4 lbs.** pressure To correct fuel level, hold air horn in inverted position Place **Tool T-24971** on gasket Tops of floats should be 3/64″ above tops of vertical guides with brass float and 1/64″ with tin plated float, which will give approximate fuel level change if necessary Sides of floats should be parallel to guides of tool without drag

MAIN METERING SYSTEM — Venturi **1-1/32″**; Main Discharge Jet **No. 32** P 23567 (**Tool T-24967**); High Speed Bleeder **No. 70** in body Main Metering Jet **.047″** P-19442 (**Tool T-24924**); Use **Tool T-19099** Screwdriver for removing main jet plug Main metering system controls the flow of fuel up to approximately 65 to 70 M P H

POWER SYSTEM—Power By Pass Jet **No. 62** P 23361, Power jet to come into operation at **4″** to **6″** of manifold vacuum, which is approximately 65 to 70 M P H (**Tool T-24733**) used to remove vacuum power piston

ACCELERATION—Pump Discharge Nozzles **No. 65** in main body Pump By Pass Jet **No. 63** P-23742, Pump capacity **18** to **22** c c per 10 fast and slow strokes with pump rod link set in minimum setting Pump action takes place during acceleration period only (**Tool T-24972.**)

IDLE SYSTEM—Idle Discharge holes **Nos. 54-58.** With throttle valve fully closed and **No. 58** drill in idle hole, edge of valve is located **.030″** + — **.004″** from **No. 58** drill, Idle Air Bleed **No. 36** P 23536 in throttle body, **No. 70** in main body Idle Tube **No. 70** P-19424 **Adjustment:** Adjust to smooth running one barrel at a time, **OUT** to make richer and **IN** to make leaner, throttle at 7 to 8 M P H

VACUUM SPARK CONTROL—With throttle fully closed and **No. 56** drill in spark hole, edge of valve is located **.016″** + — **.004″** from **No. 56** drill

FLANGE GASKET—382048

SPECIAL TOOLS MENTIONED ABOVE CONTAINED IN TOOL KIT SER-459 SEE FORM 10-265A

MOTOR TUNE-UP DATA

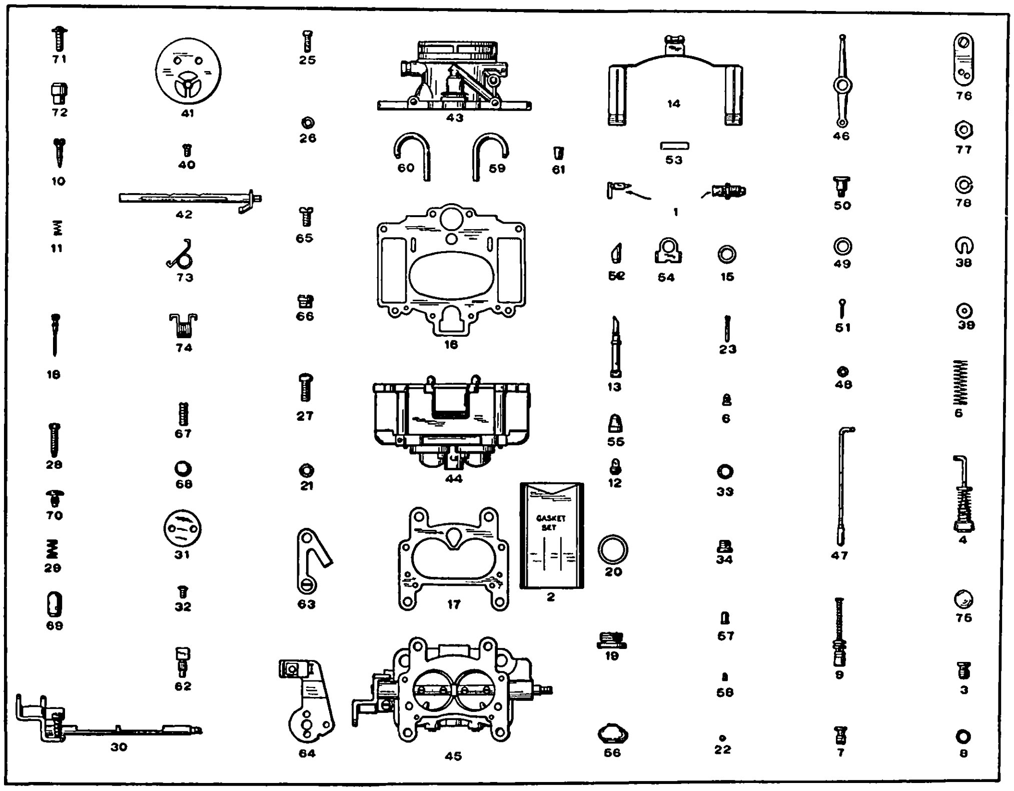
SPARK PLUG—.025″.
Clean and adjust at regular intervals.

DISTRIBUTOR—.018″.
Breaker gap set .018″.
Replace if necessary.

IGNITION TIMING—
Set points to break when steel ball in the flywheel is opposite the pointer on case.

VALVES—Intake: }Automatic.
Exhaust: }

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.



SERVICE REPLACEMENT PARTS LIST

Repair Parts Kit No. RK-504 (For Code No. 29-34A)
Repair Parts Kit No. RK-526 (For Code No. 29-34)

Bin Location	Key No	Part No	Part Name	
	1	**P-22499**	Float Needle Valve Clip and Seat	**(NOT VAR)**
	2	**J-5545-G**	Complete Gasket Set	
	3	**P-23742**	Pump By Pass Jet No 63	**(NOT VAR)**
	4	**382741**	Pump Piston Link and Spring	**(Complete)**
	5	**P-19526**	Spring—Pump Duration	
	6	**P-18144**	Pump Inlet Check Valve	
	7	**P-23361**	Power By Pass Jet No 62	**(NOT VAR)**
	8	**P-19448**	Gasket—By Pass Jet	
	9	**P-22803**	Vacuum Power Piston	
	10	**P-15478**	Idle Needle Valve	
	11	**P-18710**	Spring—Idle Needle Valve	
	12	**P-19442**	Metering Jet **047″**	**(VAR)**
	13	**P-23567**	Main Discharge Jet No 32	**(NOT VAR)**
	*14	**382581**	Float with Lever	
	15	**P-2885**	Gasket—Float Needle Valve Seat	
	16	**382255**	Gasket—Air Horn	
	17	**P-22427**	Gasket—Main Body	
	18	**P-19424**	Idle Tube	
	19	**P-21767**	Plug—Main Discharge Jet	
	20	**P-22851**	Gasket—Main Discharge Jet Plug	
	21	**P-3157**	Lockwasher—Main Body Attach Screw	
	22	**P-18772**	Lead Ball	
	23	**P-22439**	Fulcrum Pin—Float Lever	
	25	**P-2475**	Screw—Air Horn Attaching	
	26	**P-6668**	Lockwasher—Air Horn Attaching Screw	
	27	**P-709**	Screw—Main Body Attaching	
	28	**P-18288**	Screw—Throttle Stop	
	29	**P-15831**	Spring—Throttle Stop Screw	
	30	**382736**	Throttle Lever and Stem	
	31	**P-23537**	Throttle Valve	
	32	**P-23486**	Screw—Throttle Valve Attaching	
	33	**P-7338**	Gasket—Check Valve Plug	
	34	**P-19716**	Plug—Check Valve	
	38	**P-22046**	Washer—Cup	
	39	**P-22045**	Washer—Spring Retainer	
	40	**P-4522**	Screw—Choke Valve Attach	
	41	**P-23825**	Choke Valve	
	42	**P-23826**	Choke Stem and Lever	
	43	**382696**	Assy —Air Horn	
	44	**382054**	Assy —Main Body **1-1/32′** Venturi (complete with H S Bleeder Idle Air Bleed and Pump Disch Tubes)	**(VAR)**
	45	**382740**	Assy —Throttle Body **No 54-58** Idle Disch Holes **No 56** Spark Hole	**(VAR)**
	46	**382688**	Pump Lever	
	47	**P-22620**	Pump Rod	
	48	**P-9394**	Washer—Pump Rod	
	49	**P-19820**	Spring—Washer—Pump Lever Fulcrum Screw	
	50	**P-20611**	Fulcrum Screw—Pump Lever	
	51	**P-7170**	Cotter Pin—Pump Link	
	52	**P-23536**	Bleeder—Idle Air No 36	**(NOT VAR)**
	53	**P-22523**	Clip—Float Needle Valve	
	54	**P-22441**	Hanger—Float	
	55	**P-23858**	Strainer—Check Valve	
	56	**382242**	Boot—Pump Link	
	57	**P-15459**	Plug—Idle Disch Drill Hole	
	58	**P-15458**	Plug—Idle Disch Hole	
	59	**P-23245**	Tube—Pump Disch —Right No 65	**(NOT VAR)**
	60	**P-23246**	Tube—Pump Disch —Left No 65	**(NOT VAR)**
	61	**P-19430**	Wedge—Pump Disch Tubes	
	62	**P-14017**	Stop—Throttle Lever	
	63	**P-23564**	Lever—Choke	
		P-9270	Screw—Wire Conn	
	64	**P-18561**	Tube Holder	
		P-18560	Holder—Tube	
		P-11561	Clamp—Tube Holder	
		P-12868	Screw—Tube Holder Clamp	
		P-8806	Nut—Tube Holder Clamp Screw	
	65	**P-17093**	Screw—Choke Tube Holder Attach	
	66	**P-6406**	Plug—Fuel Level Sight	
	67	**P-23828**	Plug—Vac Channel Hollow Screw	
	68	**P-8495**	Plug—Expansion	
	69	**P-23985**	Bleeder—High Speed **No** 70	**(VAR)**
	70	**P-19818**	Cap—Choke Stem	
	71	**P-17059**	Screw—Choke Lever Fulcrum	
	72	**P-17058**	Bushing—Choke Lever Fulcrum Screw	
	73	**P-18563**	Spring—Choke Valve Return	
	74	**P-18558**	Spring—Choke Lever Return	
	75	**P-12777**	Plug—Welch—Vent Tube Boss	
	76	**P-22894**	Lever—Pump Rod	
	77	**P-2290**	Nut—Pump Rod Lever	
	78	**P-1791**	Lockwasher—Pump Rod Lever Nut	

*When ordering Parts for Carbs with Code No 29 34 having Symbol No 334050 specify—

P 23349 Pump Piston Link and Spring instead of 382741 Key No 4
P 24555 Air Horn instead of 382696 Key No 43
P 22430 Pump Lever instead of 382688 Key No 46
P 23745 Pump Link Boot instead of 382242 Key No 56

BENDIX PRODUCTS DIVISION

SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

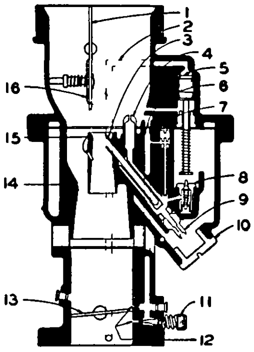
STROMBERG AAV-2 CARBURETOR

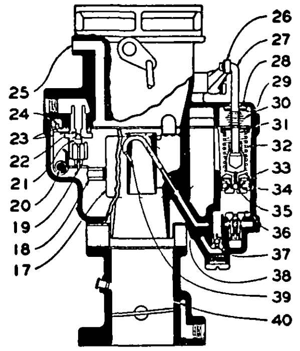
STROMBERG NO 380035 (CODE NO 29-57A) WHITE SYMBOL NO 379064

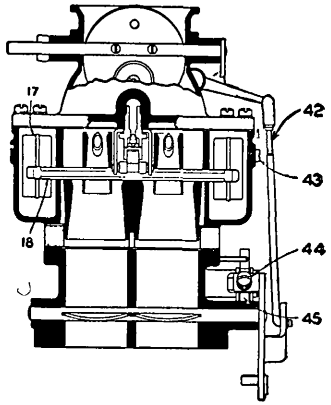
SIZE 1-1/4 DUAL D D 4-HOLE FLANGE

1939
WHITE
MODELS WA-20, 22, 26, 34
"120-A" ENGINE
3-7/8" x 4-1/2"—6 cyl.
"140-A" ENGINE
3-7/8" x 5-1/8"—6 cyl.

PARTS ILLUSTRATED







1 Choke Valve
2 Vacuum Channel
3 Main Discharge Jet
4 High Speed Bleeder
5 Power Vacuum Piston
6 Idle Air Bleeder
7 Idle Tube
8 Power By-Pass Jet
9 Main Metering Jet
10 Main Discharge Jet Plug
11 Idle Needle Valve
12 Idle Discharge Holes
13 Throttle Valve
14 Primary Venturi
15 Auxiliary Venturi
16 Choke Relief Valve
17 Float
18 Float Lever
19 Float Needle Valve Clip
20 Float Fulcrum Pin
21 Float Needle Valve
22 Float Needle Valve Seat
23 Float Hanger Gaskets
24 Float Hanger
25 Float Chamber Vent
26 Pump Fulcrum Arm
27 Pump Piston Link
28 Felt Dust Washer
29 Retainer Washer
30 Dust Washer Spring
31 Spring Retainer Washer
32 Pump Duration Spring
33 Pump Piston
34 Piston Expansion Spring
35 Pump Relief Valve
36 Pump By-Pass Jet
37 Pump Inlet Check Valve
38 Pump Discharge Channel
39 Pump Discharge Nozzle
40 Spark Control Hole
42 Pump Rod
43 Fuel Level Sight Plug
44 Throttle Stop Screw
45 Fast Idle Cam

Note—Specifications below are for latest production; previous major changes listed on parts page.

FUEL LEVEL—Measure **5/8"** below top surface of float chamber (without gasket) or level with bottom of level sight hole at **4 lbs.** pressure. To correct fuel level, hold air horn in inverted position Place **Tool T-24971** on gasket Tops of floats should be **3/64"** above tops of vertical guides with brass float and **1/64"** above guide with tin plated float, which will give approximate fuel level, change if necessary Sides of floats should be parallel to guides of tool without drag.

MAIN METERING SYSTEM—Venturi **1-1/32"**; Main Discharge Jet **No. 32** P 23567 (**Tool T-24967**); High Speed Bleeder **No. 70** in body Main Metering Jet **.047"** P-19442 (**Tool T-24924**); Use **Tool T-19099** Screwdriver for removing main jet plug Main metering system controls the flow of fuel up to approximately 65 to 70 M P H.

POWER SYSTEM—Power By Pass Jet **No. 62** P-23361, Power jet to come into operation at **4"** to **6"** of manifold vacuum, which is approximately 65 to 70 M P H (**Tool T-24733**) used to remove vacuum power piston

ACCELERATION—Pump Discharge Nozzles **No. 65** in main body, Pump By-Pass Jet **No. 63** P-23742, Pump capacity **18** to **22** c c per 10 fast and slow strokes, with pump rod link set in minimum setting Pump action takes place during acceleration period only (**Tool T-24972.**)

IDLE SYSTEM—Idle Discharge holes **Nos. 54-58.** With throttle valve fully closed and **No. 58** drill in idle hole, edge of valve is located **.030" + — .004"** from **No. 58** drill, Idle Air Bleed **No. 36** P-23536 in throttle body, **No. 70** in main body, Idle Tube **No. 70** P-19424 **Adjustment:** Adjust to smooth running one barrel at a time, **OUT** to make richer and **IN** to make leaner, throttle at 7 to 8 M P H

VACUUM SPARK CONTROL—With throttle fully closed and **No. 56** drill in spark hole, edge of valve is located **.016" + — .004"** from **No. 56** drill

FLANGE GASKET—382048

SPECIAL TOOLS REQUIRED—Use White complete Tool Kit **SER-388** T-24733 Float Adj and power piston wrench T-24967 Main Discharge Jet Remover, T 24924 Main Metering Jet Wrench, T-24970 By-Pass Jet and Check Valve Tester, T 24972 Pump Capacity Burrette Gauge T-24968 Handle T-19099 Main jet plug screwdriver

MOTOR TUNE-UP DATA

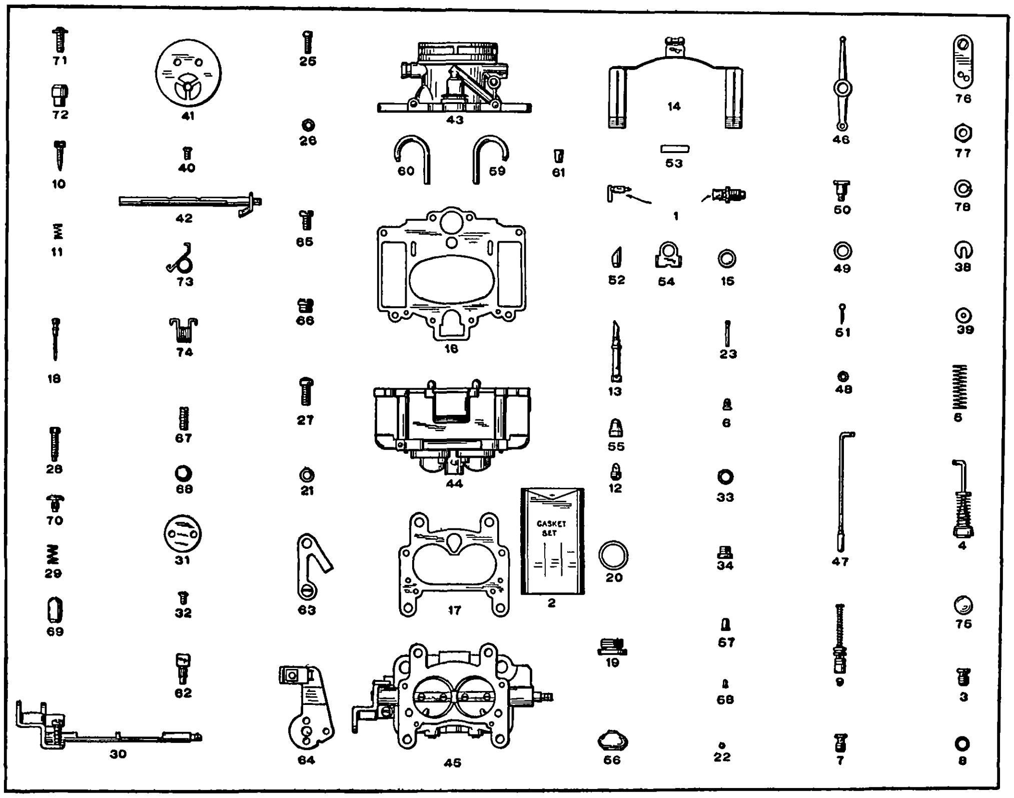
SPARK PLUG—.025".
Clean and adjust at regular intervals.

DISTRIBUTOR—.018".
Breaker gap set .018".
Replace if necessary.

IGNITION TIMING—
Set points to break when steel ball in the flywheel is opposite the pointer on case.

VALVES—Intake: }Automatic.
Exhaust: }Automatic.

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No.	Part No.	Part Name	
	1	**P-22499**	Float Needle Valve Clip and Seat	**(NOT VAR)**
	2	**J-5545-G**	Complete Gasket Set	
	3	**P-23742**	Pump By Pass Jet No 63	**(NOT VAR)**
	*4	**382741**	Pump Piston Link and Spring	**(Complete)**
	5	**P-19526**	Spring—Pump Duration	
	6	**P-18144**	Pump Inlet Check Valve	
	7	**P-23361**	Power By Pass Jet No 62	**(NOT VAR)**
	8	**P-19448**	Gasket—By Pass Jet	
	9	**P-22803**	Vacuum Power Piston	
	10	**P-15478**	Idle Needle Valve	
	11	**P-18710**	Spring—Idle Needle Valve	
	12	**P-19442**	Metering Jet .047"	**(VAR)**
	13	**P-23567**	Main Discharge Jet No 32	**(NOT VAR)**
	*14	**382269**	Float with Lever	
	15	**P-2885**	Gasket—Float Needle Valve Seat	
	16	**382255**	Gasket—Air Horn	
	17	**P-22427**	Gasket—Main Body	
	18	**P-19424**	Idle Tube	
	19	**P-21767**	Plug—Main Discharge Jet	
	20	**P-22851**	Gasket—Main Discharge Jet Plug	
	21	**P-3157**	Lockwasher—Main Body Attach Screw	
	22	**P-18772**	Lead Ball	
	23	**P-22439**	Fulcrum Pin—Float Lever	
	25	**P-2475**	Screw—Air Horn Attaching	
	26	**P-6668**	Lockwasher—Air Horn Attaching Screw	
	27	**P-709**	Screw—Main Body Attaching	
	28	**P-18288**	Screw—Throttle Stop	
	29	**P-15831**	Spring—Throttle Stop Screw	
	*30	**382736**	Throttle Lever and Stem	
	31	**P-23537**	Throttle Valve	
	32	**P-23486**	Screw—Throttle Valve Attaching	
	33	**P-7338**	Gasket—Check Valve Plug	
	34	**P-19716**	Plug—Check Valve	
	38	**P-22046**	Washer—Cup	
	39	**P-22045**	Washer—Spring Retainer	
	40	**P-4522**	Screw—Choke Valve Attach	
	41	**P-23825**	Choke Valve	
	42	**P-23826**	Choke Stem and Lever	
	*43	**382696**	Assy —Air Horn	
	44	**382054**	Assy —Main Body **1-1/32"** Venturi (complete with H S Bleeder Idle Air Bleed and Pump Disch Tubes)	**(VAR)**
	*45	**382740**	Assy —Throttle Body **No 54-58** Idle Disch Holes **No. 56** Spark Hole	**(VAR)**
	*46	**382688**	Pump Lever	
	47	**P-22620**	Pump Rod	
	48	**P-9394**	Washer—Pump Rod	
	49	**P-19820**	Spring—Washer—Pump Lever Fulcrum Screw	
	50	**P-20611**	Fulcrum Screw—Pump Lever	
	51	**P-7170**	Cotter Pin—Pump Link	
	52	**P-23536**	Bleeder—Idle Air No 36	**(NOT VAR)**
	53	**P-22523**	Clip—Float Needle Valve	
	54	**P-22441**	Hanger—Float	
	55	**P-23858**	Strainer—Check Valve	
	*56	**382242**	Boot—Pump Link	
	57	**P-15459**	Plug—Idle Disch Drill Hole	
	58	**P-15458**	Plug—Idle Disch Hole	
	59	**P-23245**	Tube—Pump Disch —Right No 65	**(NOT VAR)**
	60	**P-23246**	Tube—Pump Disch —Left No 65	**(NOT VAR)**
	61	**P-19430**	Wedge—Pump Disch Tubes	
	62	**P-14017**	Stop—Throttle Lever	
	63	**P-23564**	Lever—Choke	
		P-9270	Screw—Wire Corn	
	64	**P-18561**	Tube Holder	
		P-18560	Holder—Tube	
		P-11561	Clamp—Tube Holder	
		P-12868	Screw—Tube Holder Clamp	
		P-8806	Nut—Tube Holder Clamp Screw	
	65	**P-17093**	Screw—Choke Tube Holder Attach	
	66	**P-6406**	Plug—Fuel Level Sight	
	67	**P-23828**	Plug—Vac Channel Hollow Screw	
	68	**P-8495**	Plug—Expansion	
	69	**P-23985**	Bleeder—High Speed **No 70**	**(VAR)**
	70	**P-19818**	Cap—Choke Stem	
	71	**P-17059**	Screw—Choke Lever Fulcrum	
	72	**P-17058**	Bushing—Choke Lever Fulcrum Screw	
	73	**P-18563**	Spring—Choke Valve Return	
	74	**P-18558**	Spring—Choke Lever Return	
	75	**P-12777**	Plug—Welch—Vent Tube Boss	
	76	**P-22894**	Lever—Pump Rod	
	77	**P-2290**	Nut—Pump Rod Lever	
	78	**P-1791**	Lockwasher—Pump Rod Lever Nut	

*When ordering Parts for Carbs with Code No 29 57 having Symbol No 362843 specify—

P 23349 Pump Piston Link and Spring instead of 382741 Key No 4
P 24555 Air Horn instead of 382696 Key No 43
P 22430 Pump Lever instead of 382688 Key No 46
P 23745 Pump Link Boot instead of 382242 Key No 56

BENDIX PRODUCTS DIVISION

SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

STROMBERG AAV-25 CARBURETOR

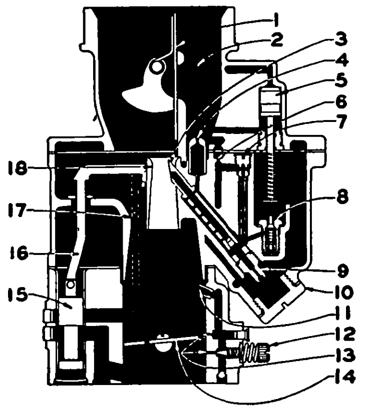
STROMBERG NO A-18812 (CODE NO 29-24) WHITE SYMBOL NO 324272

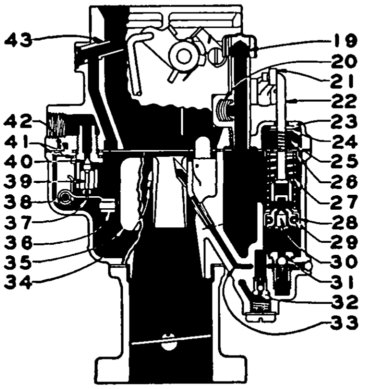
SIZE 1-1/4″ DUAL D D 4-HOLE FLANGE

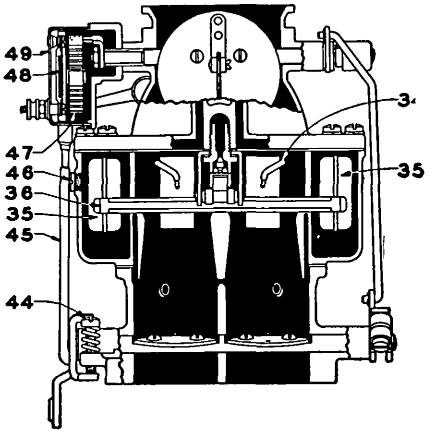
1938
WHITE
"20-A" ENGINE
3-7/8″ x 5-1/8″—6 cyl.

PARTS ILLUSTRATED

1 Choke Valve
2 Vacuum Channel
3 Main Discharge Jet
4 High Speed Bleeder
5 Vacuum Power Piston
6 Idle Air Bleeder
7 Idle Tube
8 Power By Pass Jet
9 Main Metering Jet
10 Main Dis Jet Plug
11 Sec Idle Air Bleeder
12 Idle Needle Valve
13 Idle Discharge Holes
14 Throttle Valve
15 Auto Choke Piston
16 Choke Piston Link
17 Primary Venturi
18 Auxiliary Venturi
19 Ext Fl Chmbr Vent
20 Overflow Drain Con
21 Pump Fulcrum Arm
22 Pump Piston Link
23 Felt Dust Washer
24 Retainer Washer
25 Dust Washer Spring
26 Spring Ret Washer
27 Pump Duration Spring
28 Pump Diston
29 Piston Expansion Spring
30 Pump Relief Valve
31 Pump By-Pass Jet
32 Pump Inlet Check Valve
33 Pump Dis Channel
34 Pump Dis Nozzle
35 Float
36 Float Lever
37 Float Needle Valve Clip
38 Float Fulcrum Pin
39 Float Needle Valve
40 Float Needle Valve Seat
41 Float Hanger Gaskets
42 Float Hanger
43 Inlet Float Chamber Vent
44 Throttle Stop Screw
45 Pump Rod
46 Fuel Level Sight Plug
47 Automatic Choke Thermostat
48 Electric Element
49 Thermostat Cover







Note —Specifications below are for latest production; previous major changes listed on parts page.

FUEL LEVEL—Measure **5/8″** below top surface of float chamber (without gasket) or level with bottom of level sight hole To correct fuel level, hold air horn in inverted position Place **Tool T-24971** on gasket Tops of floats should be **Flush** with tops of vertical guides, which will give approximate fuel level, change if necessary Sides of floats should be tangent to guides of tool without drag

MAIN METERING SYSTEM — Venturi **1-1/8″**; Main Discharge Jet **No. 36** P-22795 (**Tool T-24967**); High Speed Bleeder **No. 63** in body Main Metering Jet **.057″** P-22660 (**Tool T-24924**); Use **Tool T-19099** Screwdriver for removing main jet plug Main metering system controls the flow of fuel up to approximately 65 to 70 M P H

POWER SYSTEM—Power By-Pass Jet **No. 52** P-23667, Power jet to come into operation at **4″** to **6″** of manifold vacuum, which is approximately 65 to 70 M P H (**Tool T-24733**) used to remove vacuum power piston

ACCELERATION—Pump Discharge Nozzles **2 No. 70** in main body, Pump By-Pass Jet **No. 63** P-23742, Pump capacity **18** to **22** c c per 10 fast and slow strokes, with pump rod link set in minimum setting. Pump action takes place during acceleration period only (**Tool T-24972.**)

IDLE SYSTEM—Idle Discharge holes **Nos. 54-58.** With throttle valve fully closed and **No. 58** drill in idle hole, edge of valve is located **.030″** + — **.004″** from **No. 58** drill, Idle Air Bleed **No. 36** P-23536 in throttle body, **No. 60** in main body, Idle Tube **No. 66** P-23527 **Adjustment:** Adjust to smooth running one barrel at a time, **OUT** to make richer and **IN** to make leaner, throttle at 7 to 8 M P H

VACUUM SPARK CONTROL—With throttle fully closed and **No. 56** drill in spark hole, edge of valve is located **.015″** + — **.004″** from **No. 56** drill.

FLANGE GASKET—382048.

SPECIAL TOOLS REQUIRED—Use White complete Tool Kit **SER-388** T-24733 Float Adj and power piston wrench T-24967 Main Discharge Jet Remover, T-24924 Main Metering Jet Wrench, T 24970 By-Pass Jet and Check Valve Tester, T-24972 Pump Capacity Burrette Gauge, T-24968 Handle T-19099 Main jet plug screwdriver

MOTOR TUNE-UP DATA

SPARK PLUG—.025″.
Clean and adjust at regular intervals.

DISTRIBUTOR—.018″.
Breaker gap set .018″.
Replace if necessary.

IGNITION TIMING—
Set points to break when steel ball in the fly-wheel is opposite the pointer on case.

VALVES—Intake: }Automatic.
Exhaust: }

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

GENERAL DESCRIPTION AND ADJUSTMENT OF AUTOMATIC CHOKE CONTROL

GENERAL DESCRIPTION

In the Stromberg Model "AAV 25" carburetor the automatic choke control is built integral with the carburetor. The principles are, namely; manifold vacuum, heat on a thermostat spring, and offset choke valve in the carburetor The vacuum piston which is used to open the choke valve when the engine begins to fire is connected to the choke valve, while the thermostat spring is connected to the choke stem. The fast idle feature is accomplished by internal channels supplying additional fuel below the throttle valve during the cranking and fast idle periods Figs 1 4 show the automatic choke control and fast idle in the various stages of operation

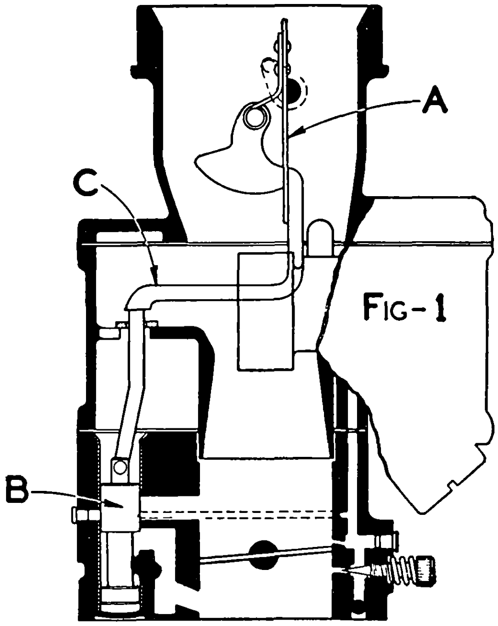


FIG-1

CHOKE OPEN—SLOW IDLE—ENGINE HOT

Fig 1 shows the choke valve "A" in wide open position, which it will be when a hot motor is stopped In this illustration the carburetor is shown at slow or curb idle, which should be adjusted by the throttle stop screw at 8 M P H with a hot engine and is the only adjustment required for the slow and fast idling of the engine.

Vacuum piston "B" shown in the "lower" position, is connected to the choke valve by link "C" In addition to the piston opening the choke valve, it also controls the duration of the fast idle period The thermostat is connected to the carburetor choke valve stem

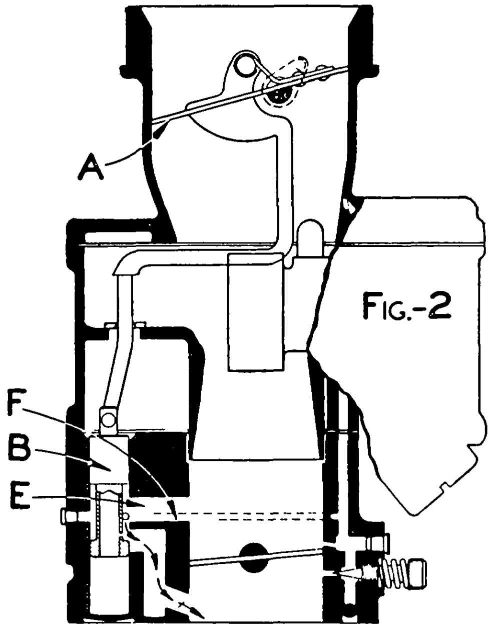


FIG.-2

CHOKE CLOSED—FAST IDLE

As the engine becomes cold, the thermostat also cools and gradually gains tension to close choke valve "A" With this movement, vacuum piston ' B" is raised, opening fast idle passage ' E" so that air is drawn through "E ' during the fast idle period The suction of the air draws fuel from passage F" to supply the additional fuel for the fast idle During the cranking of the engine the choke valve remains in the position shown in Fig 2

CHOKE PARTIALLY OPEN—ENGINE FIRING—FAST IDLE

As the engine begins to fire and a manifold vacuum is created, vacuum piston "B" is pulled down to the position where the upper side hole in the piston is exposed to air taken through passage "E," stopping the pull on the piston. With this action the choke valve opens slightly to admit sufficient air for running. The air flowing through passage "E" draws fuel from passage "F" for the fast idle mixture.

Adjusting: The pull of the vacuum piston should be set in accordance with the choke valve opening. Remove drive plug from channel "F" and insert shank end of a new No. 34 drill (.111") The choke valve should be opened until the piston comes to rest on the No. 34 drill. In this position the choke valve should be opened so that a **11/32"** drill can be placed between the valve and the air horn. **Tool T-24733** can be used to change the opening by bending the lever between the choke valve and the piston link.

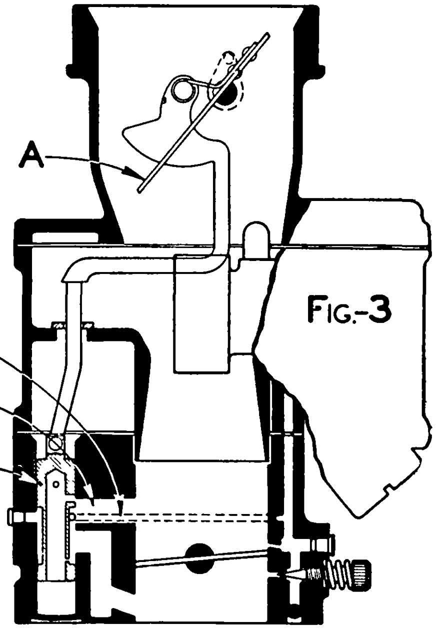


FIG.-3

ENGINE WARM—SLOW IDLE

The choke valve in the carburetor being off center continues to open by the force of the inrushing air, which works against the tension of the thermostat until the thermostat absorbs sufficient heat so that it will not offer any resistance. As the choke valve "A" opens, it allows the vacuum piston "B" to lower until the piston closes passage "E" cutting off the supply of air and gas used for fast idle. Fuel is then only taken through the regular idle discharge holes "N."

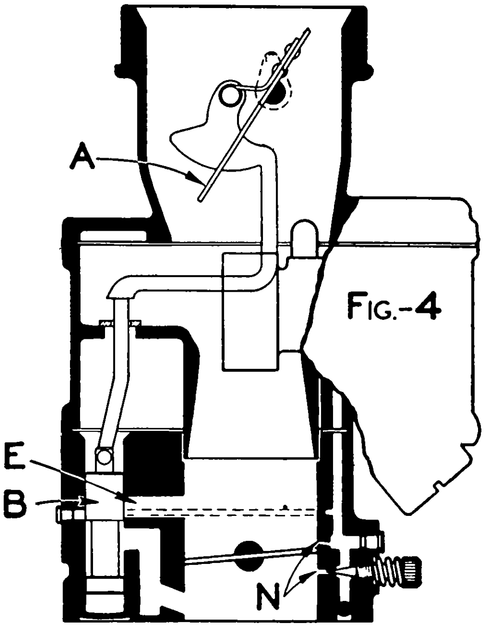


FIG.-4

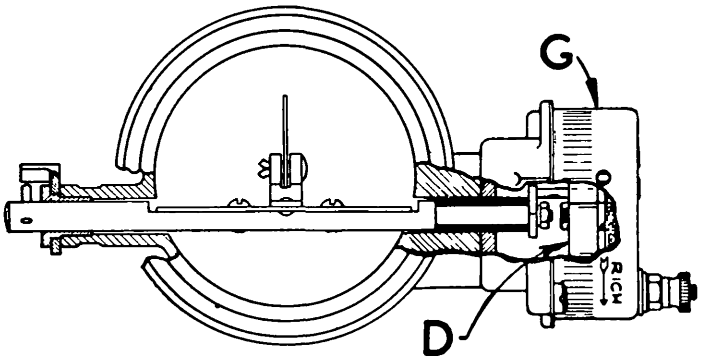
ADJUSTING THERMOSTAT

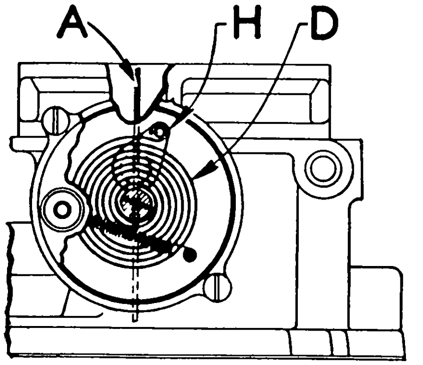
1. Remove thermostat case "G," allowing thermostat "D" to cool or warm until it has reached the temperature of 70°. **THIS IS VERY IMPORTANT.**

2. When the thermostat reaches 70°, the inside of hook "H" of the thermostat should coincide with the "zero" marking on the thermostat case, which is the original setting made at the factory. When installing a new thermostat or other new parts, check the zero location very carefully at 70° temperature and change the location if necessary. If it is impossible for the thermostat to reach 70°, you can provide for the difference by allowing one graduation on thermostat case for every 5° variation in temperature of the thermostat.

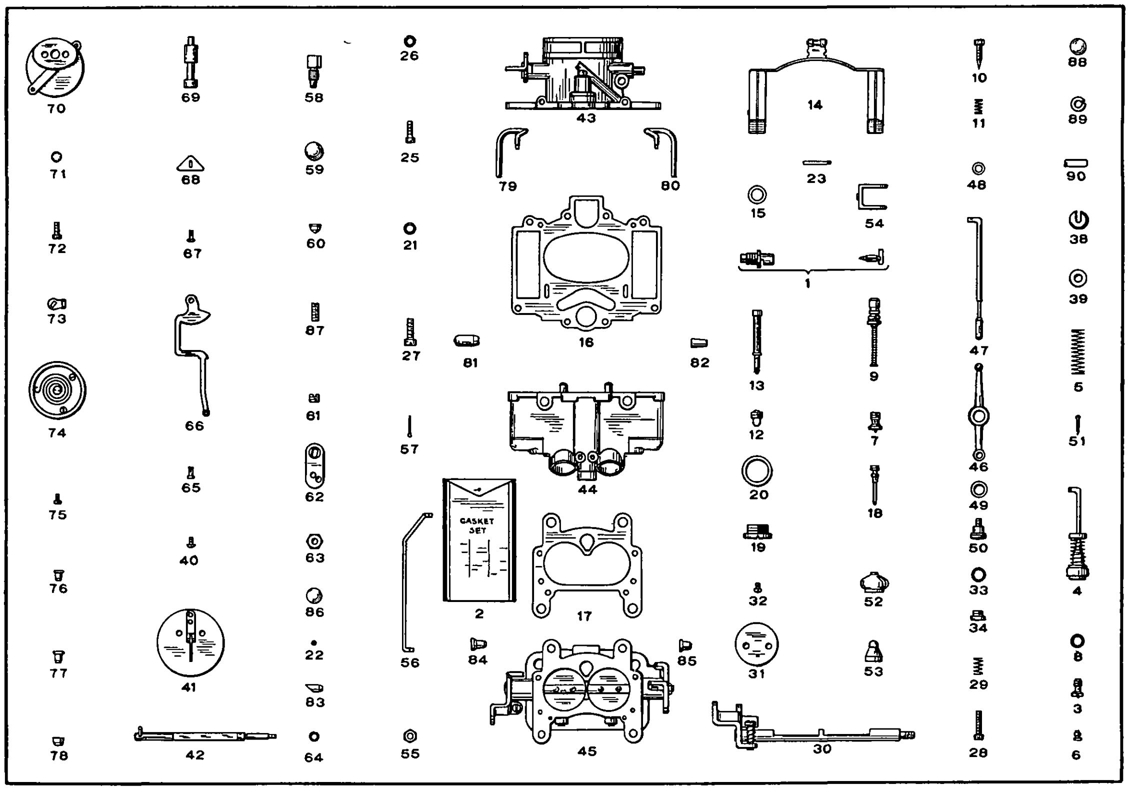
3. To adjust thermostat, reassemble case onto the air horn so that hook "H" comes into contact with pin on the lever without any tension and with choke valve "A" in wide open position. The zero marking on the case will then coincide with the notch on the air horn.

4. Revolve thermostat case **ten** notches rich as indicated by the arrow and fasten screws securely.





STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No	Part No	Part Name	
	1	**P-22499**	Float Needle Valve Clip and Seat 101″	**(NOT VAR)**
	2	**J-5320-G**	Complete Gasket Set	
	3	**P-23742**	Pump By Pass Jet No 63	**(NOT VAR)**
	4	**P-23322**	Pump Piston Link and Spring	**(Complete)**
	5	**P-22870**	Spring—Pump Duration	
	6	**P-18144**	Pump Inlet Check Valve	
	7	**P-23667**	Power By Pass Jet No 52	**(NOT VAR)**
	8	**P-19448**	Gasket—By Pass Jet	
	9	**P-22803**	Vacuum Power Piston	
	10	**P-15478**	Idle Needle Valve	
	11	**P-18710**	Spring—Idle Needle Valve	
	12	**P-22660**	Metering Jet **.057″**	**(VAR)**
	13	**P-22795**	Main Discharge Jet No 36	**(NOT VAR)**
	14	**P-22433**	Float with Lever	
	15	**P-2885**	Gasket—Float Needle Valve Seat	
	16	**P-22885**	Gasket—Air Horn	
	17	**P-22427**	Gasket—Main Body	
	18	**P-23527**	Idle Tube	
	19	**P-21767**	Plug—Main Discharge Jet	
	20	**P-22851**	Gasket—Main Discharge Jet Plug	
	21	**P-3157**	Lockwasher—Main Body Attach Screw	
	22	**P-18772**	Lead Ball	
	23	**P-22439**	Fulcrum Pin—Float Lever	
	25	**P-2475**	Screw—Air Horn Attaching	
	26	**P-6668**	Lockwasher—Air Horn Attaching Screw	
	27	**P-709**	Screw—Main Body Attaching	
	28	**P-18288**	Screw—Throttle Stop	
	29	**P-15831**	Spring—Throttle Stop Screw	
	30	**P-23740**	Throttle Lever and Stem	
	31	**P-23537**	Throttle Valve	
	32	**P-23486**	Screw—Throttle Valve Attaching	
	33	**P-7338**	Gasket—Check Valve Plug	
	34	**P-19716**	Plug—Check Valve	
	38	**P-22045**	Washer—Cup	
	39	**P-22046**	Washer—Spring Retainer	
	40	**P-22573**	Screw—Choke Valve Attach	
	41	**P-23542**	Choke Valve	
	42	**P-22608**	Choke Stem	
	43	382051	Assy —Air Horn	
	44	382053	Assy —Main Body **1-1/8″** Venturi (complete with H S Bleed Idle Air Bleeder and Pump Disch Tubes)	**(VAR)**
	45	382052	Assy —Throttle Body **No 54-58** Idle Disch Holes **No** 56 Spark Hole	**(VAR)**
	46	**P-22430**	Pump Lever	
	47	**P-22620**	Pump Rod	
	48	**P-9394**	Washer—Pump Rod	
	49	**P-19820**	Spring—Washer—Pump Lever Fulcrum Screw	
	50	**P-20611**	Fulcrum Screw—Pump Lever	
	51	**P-7170**	Cotter Pin—Pump Link and Rod	
	52	**P-23745**	Boot—Pump Link	
	53	**P-23858**	Strainer—Check Valve	
	54	**P-22441**	Hanger—Float	
	55	**P-16571**	Nut—Therm Lever Attach	
	56	**P-22556**	Rod—Deflooder	
	57	**112-S-1**	Cotter Pin—Deflooder Rod	
	58	**P-14017**	Stop—Throttle	
	59	**P-8495**	Plug—Expansion (312)	
	60	**P-23644**	Plug—Fast Idle By Pass Channel	
	61	**P-6406**	Plug—Fuel Level Sight	
	62	**P-22894**	Lever—Pump	
	63	**P-2290**	Nut—Pump Lever Attach	
	64	**P-15875**	Lockwasher—Therm Lever Attach Nut	
	65	**P-22579**	Pin—Fast Idle Link Fulcrum	
	66	**P-22553**	Link—Fast Idle Piston	
	67	**P-20973**	Rivet—Vacuum Piston	
	68	**P-22657**	Cover—Vacuum Piston Link Channel	
	69	**P-23538**	Piston—Vacuum	
	70	**P-21009**	Housing—Therm Unit	
	71	**P-15346**	Lockwasher—Housing Attach Screw	
	72	**P-12016**	Screw—Housing Attach	
	73	**P-22852**	Lever—Thermostat	
	74	**P-22604**	Thermostat Unit (Assy)	
	75	**P-21596**	Screw—Thermostat Unit Attach	
	76	**P-16996**	Plug—Fast Idle Channel	
	77	**P-15457**	Plug—Vac Piston Channel	
	78	**P-20884**	Plug—Vac Piston Channel	
	79	**P-23517**	Tube—Pump Disch (Right) 2 No 70	**(NOT VAR)**
	80	**P-23516**	Tube—Pump Disch (Left) 2 No 70	**(NOT VAR.)**
	81	**P-22369**	Bleeder—H S **No 63**	**(VAR.)**
	82	**P-19430**	Wedge—Pump Tube	
	83	**P-23536**	Bleeder—Idle Air No 36	**(NOT VAR)**
	84	**P-15458**	Plug—Idle Discharge Hole	
	85	**P-15459**	Plug—Idle Discharge Drilling Hole	
	86	**P-20782**	Plug—Expansion—Vac Piston	
	87	**P-23828**	Plug—Vac Channel Hollow Screw	
	88	**P-12777**	Plug—Welch—Vent Tube Boss	
	89	**P-1791**	Lockwasher—Pump Lever Attach Nut	
	90	**P-22523**	Clip—Float Needle Valve	

BENDIX PRODUCTS DIVISION

SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

STROMBERG AAV-2 CARBURETOR

STROMBERG NO. A-18932 (CODE NO. 29-28A) WHITE SYMBOL NO. 379073

SIZE 1-1/4" DUAL D D 4-HOLE FLANGE

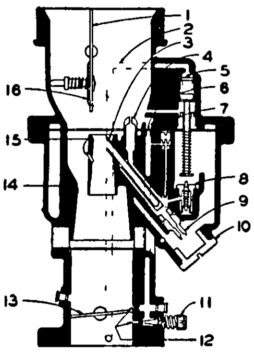
1938 WHITE

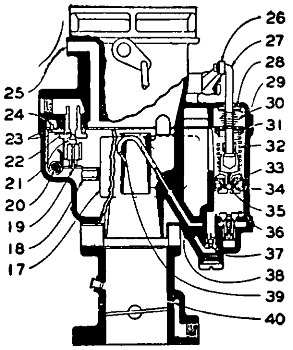
ENGINE "20-A"

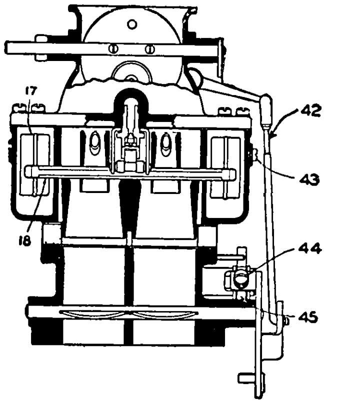
3-7/8" x 5-1/8"—6 cyl

PARTS ILLUSTRATED

1 Choke Valve
2 Vacuum Channel
3 Main Discharge Jet
4 High Speed Bleeder
5 Power Vacuum Piston
6 Idle Air Bleeder
7 Idle Tube
8 Power By-Pass Jet
9 Main Metering Jet
10 Main Discharge Jet Plug
11 Idle Needle Valve
12 Idle Discharge Holes
13 Throttle Valve
14 Primary Venturi
15 Auxiliary Venturi
16 Choke Relief Valve
17 Float
18 Float Lever
19 Float Needle Valve Clip
20 Float Fulcrum Pin
21 Float Needle Valve
22 Float Needle Valve Seat
23 Float Hanger Gaskets
24 Float Hanger
25 Float Chamber Vent
26 Pump Fulcrum Arm
27 Pump Piston Link
28 Felt Dust Washer
29 Retainer Washer
30 Dust Washer Spring
31 Spring Retainer Washer
32 Pump Duration Spring
33 Pump Piston
34 Piston Expansion Spring
35 Pump Relief Valve
36 Pump By-Pass Jet
37 Pump Inlet Check Valve
38 Pump Discharge Channel
39 Pump Discharge Nozzle
40 Spark Control Hole
42 Pump Rod
43 Fuel Level Sight Plug
44 Throttle Stop Screw
45 Fast Idle Cam







Note—Specifications below are for latest production; previous major changes listed on parts page.

FUEL LEVEL—Measure **5/8"** below top surface of float chamber (without gasket) or level with bottom of level sight hole To correct fuel level, hold air horn in inverted position. Place **Tool T-24971** on gasket. Tops of floats should be **Flush** with tops of vertical guides with brass float and **1/32"** below guides with tin plated float, which will give approximate fuel level, change if necessary. Sides of floats should be parallel to guides of tool without drag

MAIN METERING SYSTEM—Venturi **1-1/8"**; Main Discharge Jet **No. 36** P-22795 (**Tool T-24967**); High Speed Bleeder **No. 65** in body. Main Metering Jet **.057"** P-22660 (**Tool T-24924**); Use **Tool T-19099** Screwdriver for removing main jet plug. Main metering system controls the flow of fuel up to approximately 65 to 70 M P H

POWER SYSTEM—Power By-Pass Jet **No. 52** P-23667, Power jet to come into operation at **4"** to **6"** of manifold vacuum, which is approximately 65 to 70 M P H. (**Tool T-24733**) used to remove vacuum power piston

ACCELERATION—Pump Discharge Nozzles **2 No. 70** in main body, Pump By-Pass Jet **No. 63** P-23742, Pump capacity **18** to **22** c c per 10 fast and slow strokes, with pump rod link set in minimum setting Pump action takes place during acceleration period only (**Tool T-24972.**)

IDLE SYSTEM—Idle Discharge holes **Nos. 54-58.** With throttle valve fully closed and **No. 58** drill in idle hole, edge of valve is located **.030"** + — **.004"** from **No. 58** drill, Idle Air Bleed **No. 36** P-23536 in throttle body, **No. 60** in main body, Idle Tube **No. 66** P-23527 **Adjustment:** Adjust to smooth running one barrel at a time, **OUT** to make richer and **IN** to make leaner, throttle at 7 to 8 M P H

VACUUM SPARK CONTROL—With throttle fully closed and **No. 56** drill in spark hole, edge of valve is located **.015"** + — **.004"** from **No. 56** drill

FLANGE GASKET—382048.

SPECIAL TOOLS MENTIONED ABOVE CONTAINED IN TOOL KIT SER-459 SEE FORM 10-265A

MOTOR TUNE-UP DATA

SPARK PLUG—.025".
Clean and adjust at regular intervals.

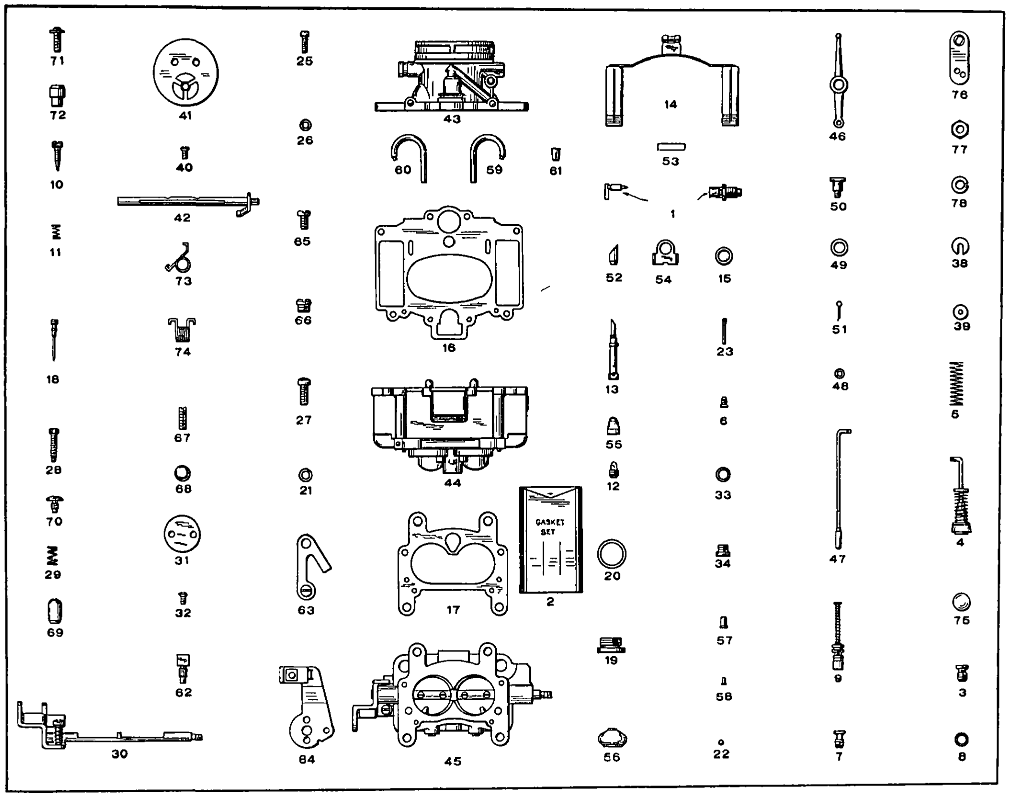
DISTRIBUTOR—.018".
Breaker gap set .018".
Replace if necessary.

IGNITION TIMING—
Set points to break when steel ball in the flywheel is opposite the pointer on case.

VALVES—Intake: Exhaust: } Automatic.

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Repair Parts Kit No. RK-502 (For Code No. 29-28)
Repair Parts Kit No. RK-524 (For Code No. 29-28A)

Bin Location	Key No	Part No	Part Name	
	1	P-22499	Float Needle Valve Clip and Seat 101	(NOT VAR)
	2	J-5545-G	Complete Gasket Set	
	3	P-23742	Pump By Pass Jet No 63	(NOT VAR)
	*4	382686	Pump Piston Link and Spring	(Complete)
	5	P-22870	Spring—Pump Duration	
	6	P-18144	Pump Inlet Check Valve	
	7	P-23667	Power By Pass Jet No 52	(NOT VAR)
	8	P-19448	Gasket—By Pass Jet	
	9	P-22803	Vacuum Power Piston	
	10	P-15478	Idle Needle Valve	
	11	P-18710	Spring—Idle Needle Valve	
	12	P-22660	Metering Jet .057"	(VAR)
	13	P-22795	Main Discharge Jet No 36	(NOT VAR)
	14	382581	Float with Lever	
	15	P-2885	Gasket—Float Needle Valve Seat	
	16	382255	Gasket—Air Horn	
	17	P-22427	Gasket—Main Body	
	18	P-23527	Idle Tube	
	19	P-21767	Plug—Main Discharge Jet	
	20	P-22851	Gasket—Main Discharge Jet Plug	
	21	P-3157	Lockwasher—Main Body Attach Screw	
	22	P-18772	Lead Ball	
	23	P-22439	Fulcrum Pin—Float Lever	
	25	P-2475	Screw—Air Horn Attaching	
	26	P-6668	Lockwasher—Air Horn Attaching Screw	
	27	P-709	Screw—Main Body Attaching	
	28	P-18288	Screw—Throttle Stop	
	29	P-15831	Spring—Throttle Stop Screw	
	30	382736	Throttle Lever and Stem	
	31	P 23537	Throttle Valve	
	32	P-23486	Screw—Throttle Valve Attaching	
	33	P-7338	Gasket—Check Valve Plug	
	34	P-19716	Plug—Check Valve	
	38	P-22046	Washer—Cup	
	39	P-22045	Washer—Spring Retainer	
	40	P-4522	Screw—Choke Valve Attach	
	41	P-23825	Choke Valve	
	42	P-23826	Choke Stem and Lever	
	*43	382696	Assy —Air Horn	
	44	382053	Assy —Main Body 1-1/8" Venturi (complete with H S Bleeder Idle Air Bleeder and Pump Disch Tubes	(VAR)
	45	382740	Assy —Throttle Body No 54-58 Idle Disch Hole No 56 Spark Hole	(VAR)
	*46	382688	Pump Lever	
	47	P-22620	Pump Rod	
	48	P-9394	Washer—Pump Rod	
	49	P-19820	Spring—Washer—Pump Lever Fulcrum Screw	
	50	P-20611	Fulcrum Screw—Pump Lever	
	51	P-7170	Cotter Pin—Pump Link	
	52	P-23536	Bleeder—Idle Air No 36	(NOT VAR)
	53	P-22523	Clip—Float Needle Valve	
	54	P-22441	Hanger—Float	
	55	P-23858	Strainer—Check Valve	
	*56	382242	Boot—Pump Link	
	57	P-15459	Plug—Idle Disch Drilling Hole	
	58	P-15458	Plug—Idle Disch Hole	
	59	P-23517	Tube—Pump Disch —Right 2 No 70	(NOT VAR)
	60	P-23516	Tube—Pump Disch —Left 2 No 70	(NOT VAR)
	61	P-19430	Wedge—Pump Disch Tube	
	62	P-14017	Stop—Throttle Lever	
	63	P-23564	Lever—Choke	
		P-9270	Screw—Wire Conn	
	64	P-18561	Tube Holder	
		P-18560	Holder—Tube	
		P-11561	Clamp—Tube Holder	
		P-12868	Screw—Tube Holder Clamp	
		P-8806	Nut—Tube Holder Clamp Screw	
	65	P-17093	Screw—Choke Tube Holder Attach	
	66	P-6406	Plug—Fuel Level Sight	
	67	P-23828	Plug—Vaccum Channel Hollow Screw	
	68	P-8495	Plug—Expansion	
	69	P-22369	Bleeder—High Speed No 63	(VAR)
	70	P-19818	Cap—Choke Stem	
	71	P-17059	Screw—Choke Lever Fulcrum	
	72	P-17058	Bushing—Choke Lever Fulcrum Screw	
	73	P-18563	Spring—Choke Valve Return	
	74	P-18558	Spring—Choke Lever Return	
	75	P-12777	Plug—Welch—Vent Tube Boss	
	76	P-22894	Lever—Pump Rod	
	77	P-2290	Nut—Pump Rod Lever	
	78	P-1791	Lockwasher—Pump Rod Lever Nut	

*When ordering parts for Carbs with Code No 29 28 having Symbol No 328219 specify—

P 23322 Pump Piston Link and Spring instead of 382686 Key No 4
P 24555 Air Horn instead of 382696 Key No 43
P 22430 Pump Lever instead of 382688 Key No 46
P 23745 Pump Link Boot instead of 382242 Key No 56

BENDIX PRODUCTS DIVISION
SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

Printed in U S A

STROMBERG AAV-2 CARBURETOR

STROMBERG NO A-19052 (CODE NO 29-32B) WHITE SYMBOL NO 379072

SIZE 1-1/4 DUAL D D 4-HOLE FLANGE

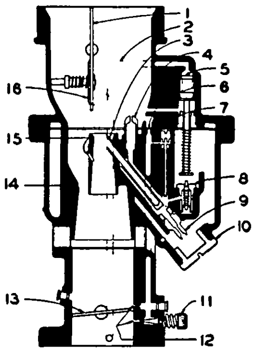
1938
WHITE

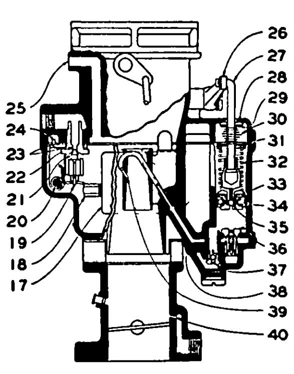
"30-A" ENGINE

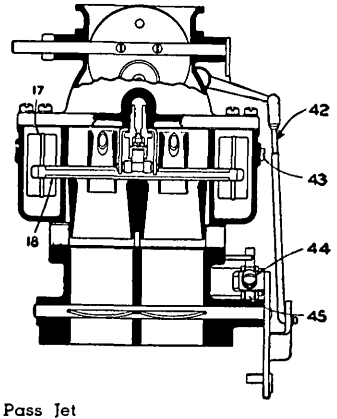
3-7/8" x 4-1/2"—6 cyl

PARTS ILLUSTRATED

1 Choke Valve
2 Vacuum Channel
3 Main Discharge Jet
4 High Speed Bleeder
5 Power Vacuum Piston
6 Idle Air Bleeder
7 Idle Tube
8 Power By Pass Jet
9 Main Metering Jet
10 Main Discharge Jet Plug
11 Idle Needle Valve
12 Idle Discharge Holes
13 Throttle Valve
14 Primary Venturi
15 Auxiliary Venturi
16 Choke Relief Valve
17 Float
18 Float Lever
19 Float Needle Valve Clip
20 Float Fulcrum Pin
21 Float Needle Valve
22 Float Needle Valve Seat
23 Float Hanger Gaskets
24 Float Hanger
25 Float Chamber Vent
26 Pump Fulcrum Arm
27 Pump Piston Link
28 Felt Dust Washer
29 Retainer Washer
30 Dust Washer Spring
31 Spring Retainer Washer
32 Pump Duration Spring
33 Pump Piston
34 Piston Expansion Spring
35 Pump Relief Valve
36 Pump By Pass Jet
37 Pump Inlet Check Valve
38 Pump Discharge Channel
39 Pump Discharge Nozzle
40 Spark Control Hole
42 Pump Rod
43 Fuel Level Sight Plug
44 Throttle Stop Screw
45 Fast Idle Cam







Note—Specifications below are for latest production; previous major changes listed on parts page.

FUEL LEVEL—Measure **5/8"** below top surface of float chamber (without gasket) or level with bottom of level sight hole To correct fuel level, hold air horn in inverted position Place **Tool T-24971** on gasket Tops of floats should be **Flush** with tops of vertical guides with brass float and **1/32"** below guides with tin plated floats, which will give approximate fuel level, change if necessary. Sides of floats should be parallel to guides of tool without drag

MAIN METERING SYSTEM—Venturi **1-1/8"**; Main Discharge Jet **No. 32** P-23567 (**Tool T-24967**); High Speed Bleeder **No. 70** in body Main Metering Jet **.052"** P-19442 (**Tool T-24924**); Use **Tool T-19099** Screwdriver for removing main jet plug Main metering system controls the flow of fuel up to approximately 65 to 70 M P H

POWER SYSTEM—Power By Pass Jet **No. 54** P 21197, Power jet to come into operation at **4"** to **6"** of manifold vacuum, which is approximately 65 to 70 M P H (**Tool T-24733**) used to remove vacuum power piston

ACCELERATION—Pump Discharge Nozzles **No. 65** in main body, Pump By Pass Jet **No. 63** P 23742, Pump capacity **18** to **22** c c per 10 fast and slow strokes, with pump rod link set in minimum setting Pump action takes place during acceleration period only (**Tool T-24972.**)

IDLE SYSTEM—Idle Discharge holes **Nos. 54-58.** With throttle valve fully closed and **No. 58** drill in idle hole, edge of valve is located **.030" + — .004"** from **No. 58** drill, Idle Air Bleed **No. 36** P 23536 in throttle body, **No. 70** in main body, Idle Tube **No. 70** P-19424 **Adjustment:** Adjust to smooth running one barrel at a time **OUT** to make richer and **IN** to make leaner, throttle at 7 to 8 M P H

VACUUM SPARK CONTROL—With throttle fully closed and **No. 56** drill in spark hole, edge of valve is located **Flush** from **No. 56** drill

FLANGE GASKET—382048

SPECIAL TOOLS MENTIONED ABOVE CONTAINED IN TOOL KIT SER-459 SEE FORM 10-265A

MOTOR TUNE-UP DATA

SPARK PLUG—.025".
Clean and adjust at regular intervals.

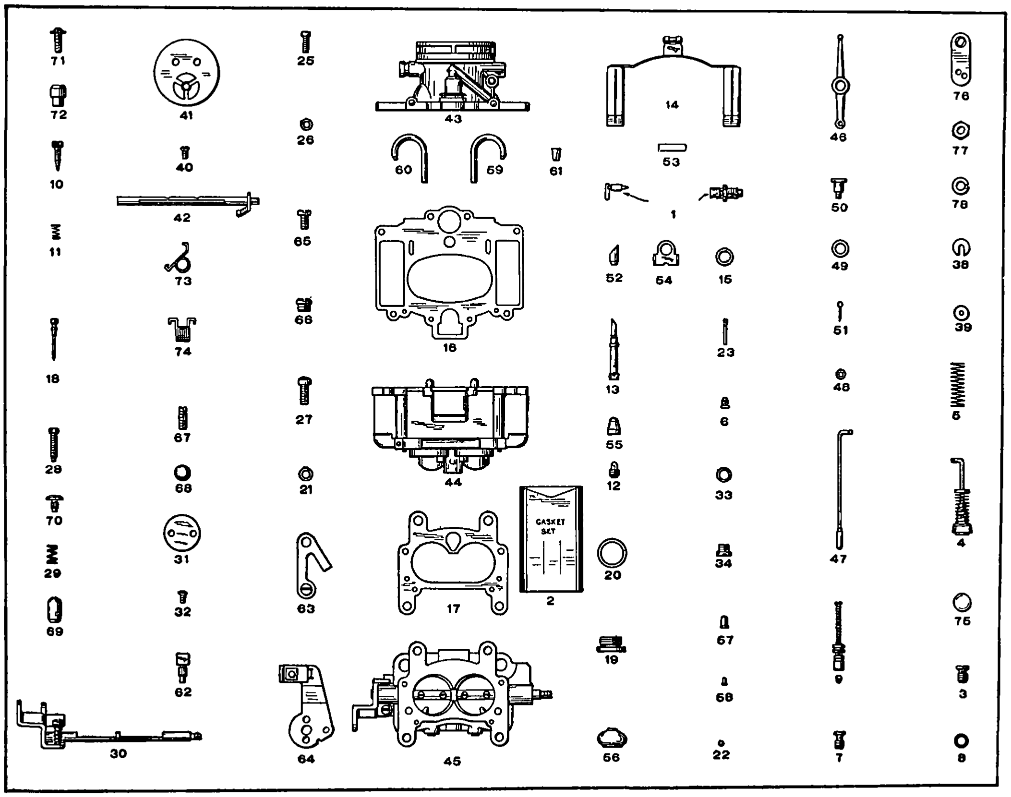
DISTRIBUTOR—.018".
Breaker gap set .018".
Replace if necessary.

IGNITION TIMING—
Set points to break when steel ball in the flywheel is opposite the pointer on case.

VALVES—Intake: Exhaust: } Automatic.

SERVICE RECOMMENDATION—**Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.**

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Repair Parts Kit No. RK-503 (For Code No. 29-32)
Repair Parts Kit No. RK-525 (For Code No. 29-32A)

Bin Location	Key No	Part No	Part Name	
	1	**P-22499**	Float Needle Valve Clip and Seat	**(NOT VAR)**
	2	**J-5545-G**	Complete Gasket Set	
	3	**P-23742**	Pump By Pass Jet No 63	**(NOT VAR)**
	*4	**382686**	Pump Piston Link and Spring	**(Complete)**
	5	**P-22870**	Spring—Pump Duration	
	6	**P-18144**	Pump Inlet Check Valve	
	7	**P-21197**	Power By Pass Jet No 54	**(NOT VAR)**
	8	**P-6855**	Gasket—By Pass Jet	
	9	**P-22803**	Vacuum Power Piston	
	10	**P-15478**	Idle Needle Valve	
	11	**P-18710**	Spring—Idle Needle Valve	
	12	**P-19442**	Metering Jet **052"**	**(VAR)**
	13	**P-23567**	Main Discharge Jet No 32	**(NOT VAR)**
	14	**382581**	Float with Lever	
	15	**P-2885**	Gasket—Float Needle Valve Seat	
	16	**382255**	Gasket—Air Horn	
	17	**P-22427**	Gasket—Main Body	
	18	**P-19424**	Idle Tube	
	19	**P-21767**	Plug—Main Discharge Jet	
	20	**P-22851**	Gasket—Main Discharge Jet Plug	
	21	**P-3157**	Lockwasher—Main Body Attach Screw	
	22	**P-18772**	Lead Ball	
	23	**P-22439**	Fulcrum Pin—Float Lever	
	25	**P-2475**	Screw—Air Horn Attaching	
	26	**P-6668**	Lockwasher—Air Horn Attaching Screw	
	27	**P-709**	Screw—Main Body Attaching	
	28	**P-18288**	Screw—Throttle Stop	
	29	**P-15831**	Spring—Throttle Stop Screw	
	30	**382736**	Throttle Lever and Stem	
	31	**P-23537**	Throttle Valve	
	32	**P-23486**	Screw—Throttle Valve Attaching	
	33	**P-7338**	Gasket—Check Valve Plug	
	34	**P-19716**	Plug—Check Valve	
	38	**P-22046**	Washer—Cup	
	39	**P-22045**	Washer—Spring Retainer	
	40	**P-4522**	Screw—Choke Valve Attach	
	41	**P-23825**	Choke Valve	
	42	**P-23826**	Choke Stem and Lever	
	*43	**382696**	Assy —Air Horn	
	44	**382055**	Assy —Main Body **1-1/8'** Venturi (complete with H S Bleeder Idle Air Bleed and Pump Disch Tubes)	**(VAR)**
	45	**382739**	Assy —Throttle Body **No** 54 58 Idle Disch Holes **No** 56 Spark Hole	**(VAR)**

Bin Location	Key No	Part No	Part Name	
	*46	**382688**	Pump Lever	
	47	**P-22620**	Pump Rod	
	48	**P-9394**	Washer—Pump Rod	
	49	**P-19820**	Spring—Washer—Pump Lever Fulcrum Screw	
	50	**P-20611**	Fulcrum Screw—Pump Lever	
	51	**P-7170**	Cotter Pin—Pump Link and Rod	
	52	**P-23536**	Bleeder—Idle Air No 70	**(NOT VAR)**
	53	**P-22523**	Clip—Float Needle Valve	
	54	**P-22441**	Hanger—Float	
	55	**P-23858**	Strainer—Check Valve	
	*56	**382242**	Boot—Pump Link	
	57	**P-15459**	Plug—Idle Disch Drilling Hole	
	58	**P-15458**	Plug—Idle Disch Hole	
	59	**P-23245**	Tube—Pump Disch (Right) No 65	**(NOT VAR)**
	60	**P-23246**	Tube—Pump Disch (Left) No 65	**(NOT VAR)**
	61	**P-19430**	Wedge—Pump Disch Tube	
	62	**P-14017**	Stop—Throttle Lever	
	63	**P-23564**	Lever—Choke	
		P-9270	Screw—Wire Conn	
	64	**P-18561**	Tube Holder	
		P-18560	Holder—Tube	
		P-11561	Clamp—Tube Holder	
		P-12868	Screw—Tube Holder Clamp	
		P-8806	Nut—Tube Holder Clamp Screw	
	65	**P-17093**	Screw—Ch Tube Holder Attach	
	66	**P-6406**	Plug—Fuel Level Sight	
	67	**P-23828**	Plug—Vac Chann Hollow Screw	
	68	**P-8495**	Plug—Expansion	
	69	**P-23985**	Bleeder—H S **No 70**	**(VAR)**
	70	**P-19818**	Cap—Choke Stem	
	71	**P-17059**	Screw—Choke Lever Fulcrum	
	72	**P-17058**	Bushing—Choke Lever Fulcrum Screw	
	73	**P-18563**	Spring—Choke Valve Return	
	74	**P-18558**	Spring—Choke Lever Return	
	75	**P-12777**	Plug—Welch Vent Tube Boss	
	76	**P-22894**	Lever—Pump Rod	
	77	**P-2290**	Nut—Pump Rod Lever Attach	
	78	**P-1791**	Lockwasher—Pump Rod Lever Nut	

*When ordering parts for Carbs with Code No. 29 32A having Symbol No 334048 specify—

P 23322 Pump Piston Link and Spring instead of 382686 Key No 4
P 24555 Air Horn instead of 382696 Key No 43
P 22430 Pump Lever instead of 382688 Key No 46
P 23745 Pump Link Boot instead of 382242 Key No 56

BENDIX PRODUCTS DIVISION

SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

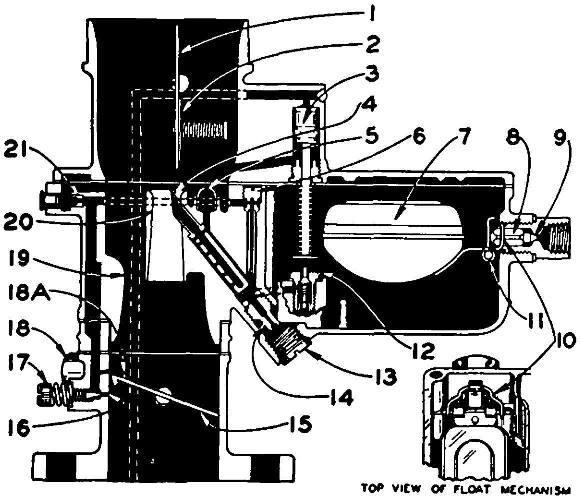
STROMBERG BXV-2 CARBURETOR

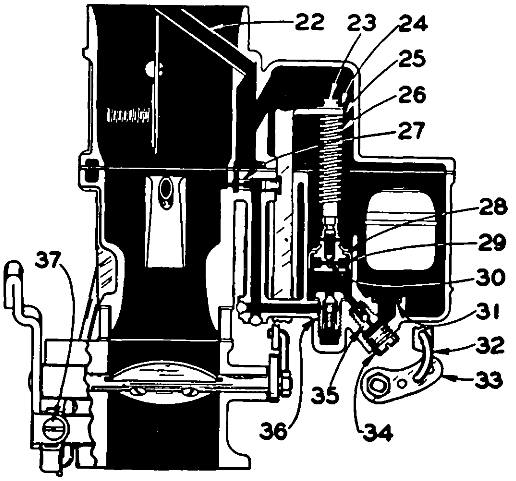
STROMBERG NO A-19082 (CODE NO 1-93)

SIZE 1-1/4" D D S A E 2-11/16" FLANGE CENTERS

PARTS ILLUSTRATED

1 Choke Valve
2 Choke Relief Valve
3 Vacuum Power Piston
4 Main Discharge Jet
5 High Speed Bleeder
6 Idle Tube
7 Float
8 Float Needle Valve
9 Float Needle Valve Seat
10 Float Fulcrum Pin Clip
11 Float Fulcrum Pin
12 Power By Pass Jet
13 Main Jet Plug
14 Main Metering Jet
15 Throttle Valve
16 Idle Discharge Holes
17 Idle Needle Valve
18 Vacuum Spark Conn
18A Vacuum Spark Hole
19 Primary Venturi
20 Auxiliary Venturi
21 Idle Air Bleed
22 Float Chamber Vent
23 Piston Conn Rod
24 Cotter Pin
25 Pump Piston Rod
26 Pump Duration Spring
27 Pump Discharge Nozzle
28 Pump Piston





29 Pump Piston Exp Spring
30 Pump Relief Valve
31 Pump Inlet Strainer
32 Pump Link
33 Pump Lever
34 Pump Inlet Plug
35 Pump Inlet Check Valve
36 Pump By Pass Jet
37 Throttle Stop Screw

Note—Specifications below are for latest production; previous major changes listed on parts page.

FUEL LEVEL—Measure **5/8"** below top surface of float chamber (without gasket) at 3 lbs pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level).

MAIN METERING SYSTEM—Venturi **1-3/32"**; Main Discharge Jet **No. 28-36** P 24036 (**Tool T-24967**); High Speed Bleeder **No. 70** P-23985 Main Metering Jet **.057"** P-19442 (**Tool T-24924**); Adjustable Metering Jet **.057"** P-24268 Main metering system controls the flow of fuel up to approximately 65 to 70 M P H

POWER SYSTEM—Power By Pass Jet **No. 55** P-23676, Power jet to come into operation at **4"** to **6"** of manifold vacuum, which is approximately 65 to 70 M P H Use **Tool T-24733** to remove vacuum power piston

ACCELERATION—Pump Discharge Reducer **No. 70** P 24067, Pump By Pass Jet **2 No. 56**; Pump capacity **11** to **14** c c per 10 slow strokes with pump rod link set in middle setting Use **Tool T-24972.** Pump action takes place during acceleration period only

IDLE SYSTEM—Idle Discharge holes **Nos. 56-58.** With throttle valve fully closed and **No. 58** drill in idle hole, edge of valve is located **Flush + .006"-.000"** from **No. 58** drill, Idle Air Bleed **No. 54** P-20470, Idle Tube **No. 70** P-21778 Adjustment· Adjust to smooth running, OUT to make richer and IN to make leaner, throttle at 7 to 8 M P H

VACUUM SPARK CONTROL—Drill **2 No. 60** spark holes above throttle valve and **1 No. 60** hole drilled at random below throttle valve With throttle fully closed and **No. 60** drill in spark hole (above valve), edge of valve is located **Flush** from **No. 60.**

FLANGE GASKET—P-24314 with 4 slots P 24137 with elongated slot, for use with governor

SPECIAL TOOLS REQUIRED—T 24733 Float Adj. and power piston wrench T-24967 Main Discharge Jet Remover, T-24924 Main Metering Jet Wrench, T-24970 By Pass Jet and Check Valve Tester, T-24972 Pump Capacity Burrette Gauge, T-24968 Handle

MOTOR TUNE-UP DATA

SPARK PLUG—
Clean and adjust at regular intervals.

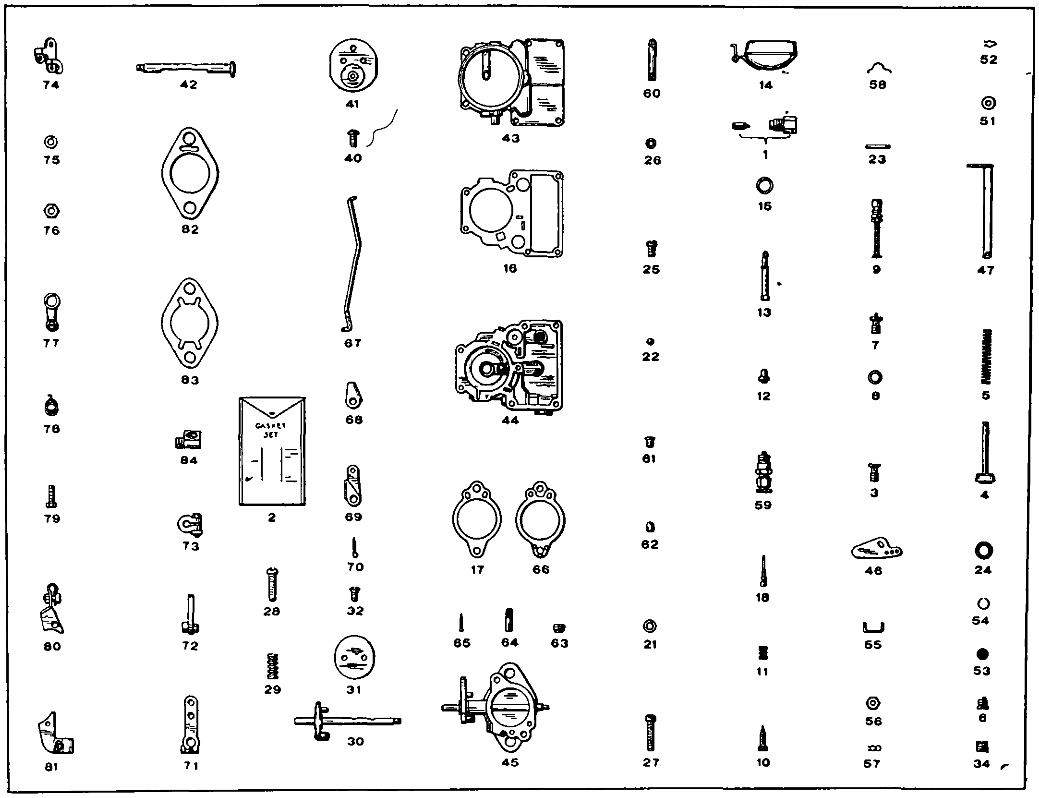
DISTRIBUTOR—Set breaker gap. Replace points if necessary.

IGNITION TIMING—Use timing light.

VALVES—Intake: Exhaust: Adjust with engine hot.

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No.	Part No.	Part Name	
	1	**P-24063**	Float Needle Valve and Seat 086″	**(NOT VAR.)**
	2	**J-5409-G**	Complete Gasket Set	
	3	**P-24062**	Pump By Pass Jet No 56	**(NOT VAR.)**
	4	**P-24039**	Pump Piston and Stem (Complete)	
	5	**P-24287**	Spring—Pump Duration	
	6	**P-18144**	Pump Inlet Check Valve	
	7	**P-23676**	Power By Pass Jet No 55	**(NOT VAR.)**
	8	**P-19448**	Gasket—By Pass Jet	
	9	**P-24043**	Vacuum Power Piston	
	10	**P-17402**	Idle Needle Valve	
	11	**P-15481**	Spring—Idle Needle Valve	
	12	**P-19442**	Metering Jet **.057″**	**(VAR.)**
	13	**P-24036**	Main Discharge Jet No 28 36	**(NOT VAR.)**
	14	**P-22081**	Float with Lever	
	15	**P-10666**	Gasket—Float Needle Valve Seat	
	16	**P-24053**	Gasket—Air Horn	
	17	**P-24037**	Gasket—Main Body	
	18	**P-21778**	Idle Tube	
	21	**P-3157**	Lockwasher—Main Body Attach Screw	
	22	**P-18772**	Lead Ball	
	23	**P-23272**	Flucrum Pin—Float Level	
	24	**P-16960**	Spring—Pump Piston Leather Expansion	
	25	**P-3199**	Screw—Air Horn Attaching	
	26	**P-1791**	Lockwasher—Air Horn Attaching Screw	
	27	**P-22025**	Screw—Main Body Attaching	
	28	**P-15456**	Screw—Throttle Stop	
	29	**P-15831**	Spring—Throttle Stop Screw	
	30	**P-24257**	Throttle Lever and Stem	
	31	**P-24312**	Throttle Valve (20°)	**(NOT VAR.)**
	32	**P-4522**	Screw—Throttle Valve Attaching	
	34	**P-23269**	Plug—Check Valve	
	40	**P-22573**	Screw—Choke Valve Attach	
	41	**P-24046**	Choke Valve	
	42	**P-24077**	Choke Stem and Lever	
	43	**P-24709**	Assy —Air Horn	
	44	**P-24707**	Assy —Main Body **1-3/32″** Venturi **No. 70** High Speed Bleeder	**(VAR.)**
	45	**P-24708**	Assy —Throttle Body **No. 56-58** Idle Discharge Holes	**(VAR.)**
	46	**P-23666**	Pump Lever	
	47	**P-24042**	Pump Rod	
	51	**P-24215**	Washer—Pump Stem	
	52	**P-21338**	Cotter Pin—Pump Stem	
	53	**P-23270**	Screen—Pump Strainer	
	54	**P-23271**	Spring Clip—Pump Strainer Screen	
	55	**P-18368**	Pump Link	
	56	**P-2290**	Nut—Pump Lever	
	57	**P-19374**	Cotter Pin—Pump Link	
	58	**P-23273**	Spring—Float Fulcrum Pin	
	59	**P-24268**	Adjustable Metering Jet **.057″**	**(VAR.)**
	60	**P-24045**	Vent Tube	
	61	**P-15459**	Plug—Drive ¼″	
	62	**P-23985**	High Speed Bleeder No 70	**(NOT VAR.)**
	63	**P-3292**	Plug—Gov Conn and Vac Spark Conn	
	64	**P-23620**	Stop Pin—Throttle Body	
	65	**P-7170**	Cotter Pin—Fast Idle Cam Lever	
	66	**P-23857**	Spacer—Insulator—Main Body	
	67	**P-24060**	Fast Idle Rod	
	68	**P-23622**	Fast Idle Cam	
	69	**P-23621**	Fast Idle Cam Lever	
	70	**112-S-22**	Cotter Pin—Fast Idle Rod	
	71	**P-23215**	Throttle Lever	
		P-3199	Screw—Throttle Lever Clamp	
	72	**P-15424**	Throttle Loose Lever	
		P-9270	Screw—Throttle Loose Lever Clamp	
	73	**P-16487**	Throttle Loose Lever Stop	
	74	**P-24052**	Fast Idle Lever	
	75	**P-6668**	Lockwasher—Fast Idle Lever Attach Nut	
	76	**P-16571**	Nut—Fast Idle Lever Attach	
	77	**P-24081**	Manual Choke Lever	
	78	**P-24080**	Spring—Manual Choke Lever.	
	79	**P-24087**	Screw—Choke Tube Holder Attach	
	80	**P-24260**	Throttle Loose Lever Tube Holder	
		P-2229	Screw—Thro Loose Lever Tube Holder Clamp	
		P-2290	Nut—Thro Loose Lever Tube Holder Clamp Screw	
		P-15875	Lockwasher—Thro Loose Lever Tube Holder Clamp Screw	
	81	**P-24086**	Choke Tube Holder	
		P-2229	Screw—Choke Tube Clamp	
		P-2290	Nut—Choke Tube Clamp Screw	
		P-15875	Lockwasher—Choke Tube Clamp Screw	
	82	**P-24137**	Flange Gasket	
	83	**P-24314**	Flange Gasket	
	84	**P-17481**	Union	

BENDIX PRODUCTS DIVISION

SOUTH BEND **OF BENDIX AVIATION CORPORATION** **INDIANA**

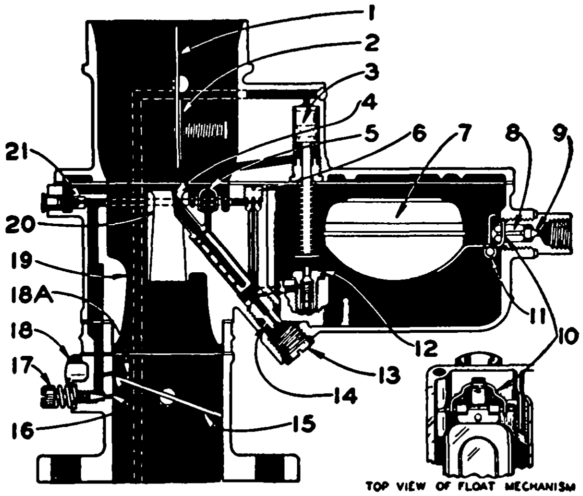
STROMBERG BXV-25 CARBURETOR

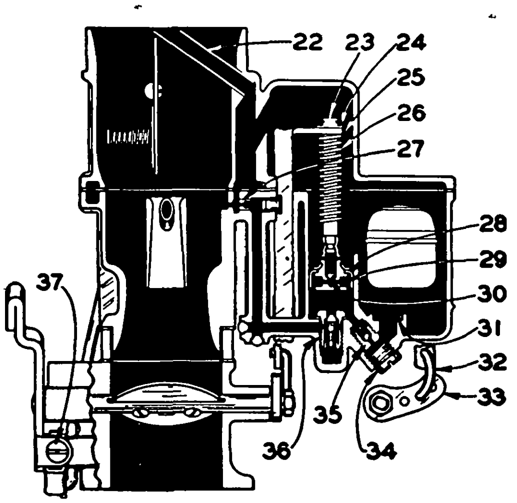
STANDARD
BXV-25

STROMBERG NO A-19092 (CODE NO 1-96)

SIZE 1-1/4 D D S A E 2-11/16′ FLANGE CENTERS

PARTS ILLUSTRATED





1 Choke Valve
2 Choke Relief Valve
3 Vacuum Power Piston
4 Main Discharge Jet
5 High Speed Bleeder
6 Idle Tube
7 Float
8 Float Needle Valve
9 Float Needle Valve Seat
10 Float Fulcrum Pin Clip
11 Float Fulcrum Pin
12 Power By Pass Jet
13 Main Jet Plug
14 Main Metering Jet
15 Throttle Valve
16 Idle Discharge Holes
17 Idle Needle Valve
18 Vacuum Spark Conn
18A Vacuum Spark Hole
19 Primary Venturi
20 Auxiliary Venturi
21 Idle Air Bleed
22 Float Chamber Vent
23 Piston Conn Rod
24 Cotter Pin
25 Pump Piston Rod
26 Pump Duration Spring
27 Pump Discharge Nozzle
28 Pump Piston
29 Pump Piston Exp Spring
30 Pump Relief Valve
31 Pump Inlet Strainer
32 Pump Link
33 Pump Lever
34 Pump Inlet Plug
35 Pump Inlet Check Valve
36 Pump By Pass Jet
37 Throttle Stop Screw

Note—Specifications below are for latest production; previous major changes listed on parts pag .

FUEL LEVEL—Measure **5/8″** below top surface of float chamber (without gasket) at 3 lbs pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level)

MAIN METERING SYSTEM—Venturi **1-3/32″**; Main Discharge Jet **No. 28-36** P 24036 (**Tool T-24967**); High Speed Bleeder **No. 70** P 23985 Main Metering Jet **.057″** P-19442 (**Tool 24924**); Adjustable Metering Jet **.057″** P-24268 Main metering system controls the flow of fuel up to approximately 65 to 70 M P H

POWER SYSTEM—Power By-Pass Jet **No. 55** P 23676, Power jet to come into operation at **4″** to **6″** of manifold vacuum, which is approximately 65 to M P H (**Tool T-24733**) used to remove power piston

ACCELERATION—Pump Discharge Reducer **No. 70** P 24067, Pump By-Pass Jet **2 No. 56**; Pump capacity **11** to **14** c c per 10 slow strokes with pump rod link set in middle setting (**Tool T-24972**). Pump action takes place during acceleration period only

IDLE SYSTEM—Idle Discharge holes **Nos. 56-58.** With throttle valve fully closed and **No. 58** drill in idle hole, edge of valve is located **Flush +.006″-.000″** from **No. 58** drill, Idle Air Bleed **No. 54** P-20470, Idle Tube **No. 70** P 21778 Adjustment: Adjust to smooth running, OUT to make richer and IN to make leaner, throttle at 7 to 8 M P H

THERMOSTAT SETTING—Set thermostat **12** graduations rich from mark "0"

VACUUM SPARK CONTROL—Drill **2 No. 60** spark holes above throttle valve and **1 No. 60** hole drilled at random below throttle valve With throttle fully closed and **No. 60** drill in spark hole (above valve), edge of valve is located **Flush** from **No. 60** drill

FLANGE GASKET—P-24314 with 4 slots P-24137 with elongated slot, for use with governor

SPECIAL TOOLS REQUIRED—T 24733 Float Adj and power piston wrench T-24967 Main Discharge Jet Remover, T-24924 Main Metering Jet Wrench, T-24970 By-Pass Jet and Check Valve Tester, T-24972 Pump Capacity Burrette Gauge, Y-24968 Handle T-19099 Main jet plug screwdriver

MOTOR TUNE-UP DATA

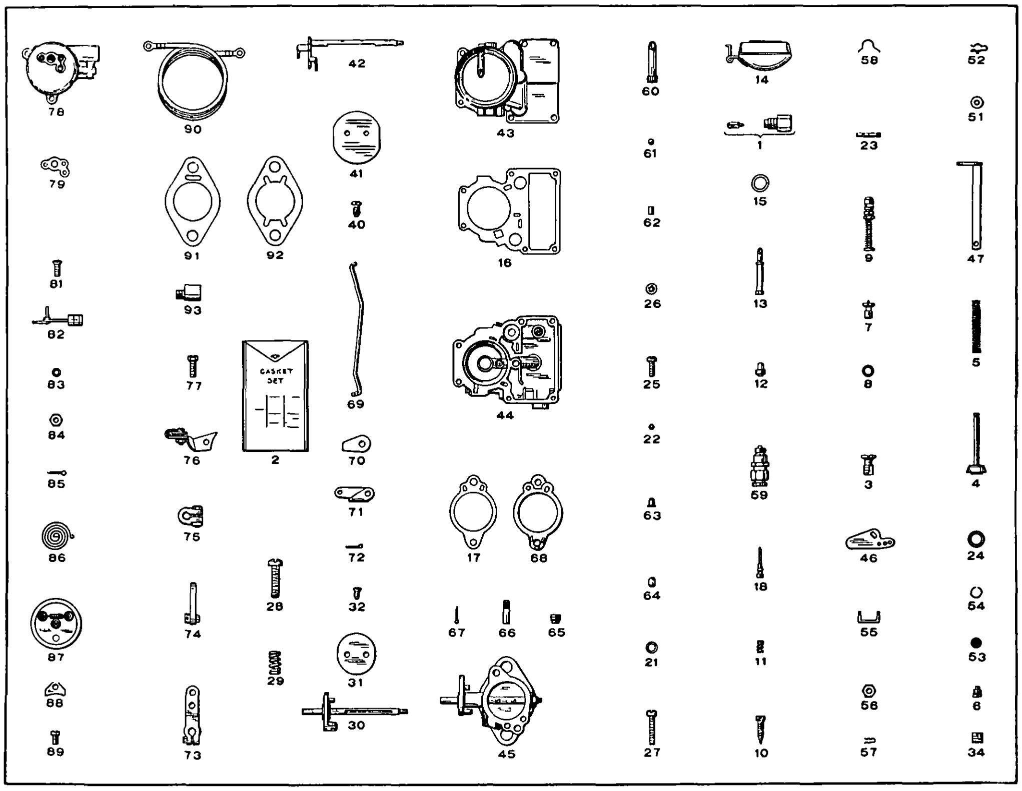
SPARK PLUG—
Clean and adjust at regular intervals.

DISTRIBUTOR—Set breaker gap. Replace points if necessary.

IGNITION TIMING—Use timing light.

VALVES—Intake; Exhaust: Adjust with engine hot.

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No.	Part No.	Part Name	
	1	**P-24063**	Float Needle Valve and Seat 086″	**(NOT VAR)**
	2	**J-5562-G**	Complete Gasket Set.	
	3	**P-24062**	Pump By Pass Jet No 56	**(NOT VAR)**
	4	**P-24039**	Pump Piston and Stem (Complete)	
	5	**P-24287**	Spring—Pump Duration	
	6	**P-18144**	Pump Inlet Check Valve	
	7	**P-21657**	Power By Pass Jet No 56	**(NOT VAR)**
	8	**P-19448**	Gasket—By Pass Jet	
	9	**P-24043**	Vacuum Power Piston	
	10	**P-17402**	Idle Needle Valve	
	11	**P-15481**	Spring—Idle Needle Valve	
	12	**P-19442**	Metering Jet **057″**	**(VAR)**
	13	**P-24036**	Main Discharge Jet No 28 36	**(NOT VAR)**
	14	**P-22081**	Float with Lever	
	15	**P-10666**	Gasket—Float Needle Valve Seat	
	16	**P-24053**	Gasket—Air Horn	
	17	**P-24037**	Gasket—Main Body	
	18	**P-21778**	Idle Tube	
	21	**P-3157**	Lockwasher—Main Body Attach Screw	
	22	**P-18772**	Lead Ball	
	23	**P-23272**	Fulcrum Pin—Float Lever	
	24	**P-16960**	Spring—Pump Piston Leather Expansion	
	25	**P-3199**	Screw—Air Horn Attaching	
	26	**P-1791**	Lockwasher—Air Horn Attaching Screw	
	27	**P-22025**	Screw—Main Body Attaching	
	28	**P-15456**	Screw—Throttle Stop	
	29	**P-15831**	Spring—Throttle Stop Screw	
	30	**P-24257**	Throttle Lever and Stem	
	31	**P-24312**	Throttle Valve (20°)	**(NOT VAR)**
	32	**P-4522**	Screw—Throttle Valve Attaching	
	34	**P-23269**	Plug—Check Valve	
	40	**P-22573**	Screw—Check Valve Attach	
	41	**P-24447**	Choke Valve	
	42	**P-24443**	Choke Stem and Lever	
	43	**P-24799**	Assy —Air Horn	
	44	**P-24707**	Assy —Main Body **1-3/32″** Venturi, **No. 70** High Speed Bleeder	**(VAR.)**
	45	**P-24708**	Assy —Throttle Body **No. 56-58** Idle Discharge Holes	**(VAR)**
	46	**P-23666**	Pump Lever	
	47	**P-24042**	Pump Rod	
	51	**P-24215**	Washer—Pump Stem	
	52	**P-21338**	Cotter Pin—Pump Stem	
	53	**P-23270**	Screen—Pump Strainer	
	54	**P-23271**	Spring Clip—Pump Strainer Screen	
	55	**P-18368**	Pump Link	
	56	**P-2290**	Nut—Pump Lever	
	57	**P-19374**	Cotter Pin—Pump Link	
	58	**P-23273**	Spring—Float Fulcrum Pin	
	59	**P-24268**	Adj Metering Jet **.057″**	**(VAR.)**
	60	**P-24045**	Vent Tube	
	61	**P-21700**	Lead Ball—Vacuum Channel	
	62	**P-24446**	Reducer—Vacuum Channel	
	63	**P-15459**	Plug—Drive ¼″	
	64	**P-23985**	High Speed Bleeder No 70	**(NOT VAR)**
	65	**P-3292**	Plug—Gov Conn and Vac Spark Conn	
	66	**P-23620**	Stop Pin—Throttle Body	
	67	**P-7170**	Cotter Pin—Fast Idle Cam Lever	
	68	**P-23857**	Spacer—Insulator—Main Body	
	69	**P-24060**	Fast Idle Rod	
	70	**P-23622**	Fast Idle Cam	
	71	**P-23621**	Fast Idle Cam Lever	
	72	**112-S-22**	Cotter Pin—Fast Idle Rod	
	73	**P-23215**	Throttle Lever	
	74	**P-15424**	Thorttle Loose Lever	
	75	**P-16487**	Throttle Loose Lever Stop	
		P-18769	Screw—Throttle Loose Lever Clamp	
		P-18299	Nut—Throttle Loose Lever Clamp Screw	
	76	**P-24260**	Throttle Loose Lever Tube Holder	
		P-2229	Screw—Thro Loose Lever Tube Holder Clamp	
		P-2290	Nut—Thro Loose Lever Tube Holder Clamp Screw	
		P-15875	Lockwasher—Thro Loose Lever Tube Holder Clamp Screw	
	77	**P-24087**	Screw—Choke Tube Holder Attach	
	78	**P-24442**	Choke Housing	
	79	**P-23297**	Gasket—Choke Housing	
	81	**P-24445**	Screw—Choke Housing Attach	
	82	**P-24346**	Vacuum Choke Piston and Link	
	83	**P-15875**	Lockwasher—Vac Choke Piston Lever	
	84	**P-16571**	Nut—Vac Choke Piston Lever Lock	
	85	**P-4**	Cotter Pin—Thermostat Post	
	86	**P-21507**	Thermostat	
	87	**P-23124**	Assy —Electric Unit.	
	88	**P-23932**	Washer—Electric Unit Attach Screw	
	89	**P-2866**	Screw—Electric Unit Attach	
	90	**P-21987**	Automatic Choke Wire	
	91	**P-24137**	Flange Gasket.	
	92	**P-24314**	Flange Gasket	
	93	**P-17481**	Union	

BENDIX PRODUCTS DIVISION
SOUTH BEND OF BENDIX AVIATION CORPORATION **INDIANA**

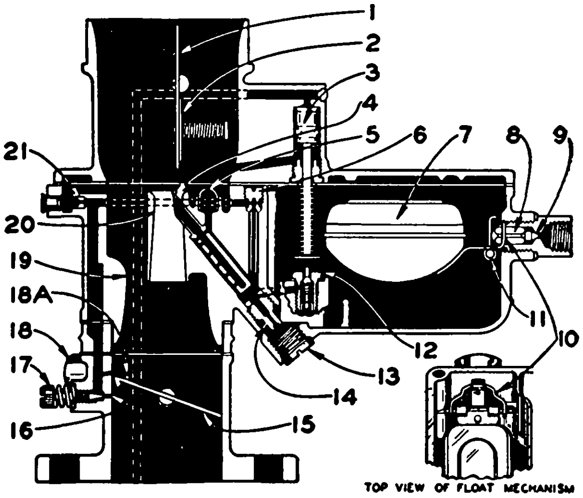
STROMBERG BXOV-2 CARBURETOR

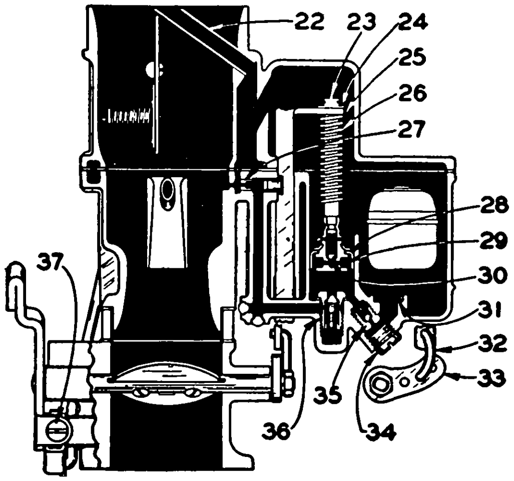
STROMBERG NO A-19102 (CODE NO 1-92)

SIZE 1-3/8" D D S A E 2-11/16" FLANGE CENTERS

PARTS ILLUSTRATED

1 Choke Valve
2 Choke Relief Valve
3 Vacuum Power Piston
4 Main Discharge Jet
5 High Speed Bleeder
6 Idle Tube
7 Float
8 Float Needle Valve
9 Float Needle Valve Seat
10 Float Fulcrum Pin Clip
11 Float Fulcrum Pin
12 Power By Pass Jet
13 Main Jet Plug
14 Main Metering Jet
15 Throttle Valve
16 Idle Discharge Holes
17 Idle Needle Valve
18 Vacuum Spark Conn
18A Vacuum Spark Hole
19 Primary Venturi
20 Auxiliary Venturi
21 Idle Air Bleed
22 Float Chamber Vent
23 Piston Conn Rod
24 Cotter Pin
25 Pump Piston Rod
26 Pump Duration Spring
27 Pump Discharge Nozzle
28 Pump Piston





29 Pump Piston Exp Spring
30 Pump Relief Valve
31 Pump Inlet Strainer
32 Pump Link
33 Pump Lever
34 Pump Inlet Plug
35 Pump Inlet Check Valve
36 Pump By Pass Jet
37 Throttle Stop Screw

Note—Specifications below are for latest production; previous major changes listed on parts page.

FUEL LEVEL—Measure **5/8"** below top surface of float chamber (without gasket) at 3 lbs pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level)

MAIN METERING SYSTEM — Venturi **1-5/32"**; Main Discharge Jet **No. 28-36** P-24036 (**Tool T-24967**); High Speed Bleeder **No. 68** P-24315 Main Metering Jet **.060"** P 19442 (**Tool T-24924**); Adjustable Metering Jet **.060"** P-24268 Main metering system controls the flow of fuel up to approximately 65 to 70 M P H

POWER SYSTEM — Power By Pass Jet **No. 54** P 21197, Power jet to come into operation at **4"** to **6"** of manifold vacuum, which is approximately 65 to 70 M P H (**Tool T-24733**) used to remove vacuum power piston

ACCELERATION—Pump Discharge Reducer **No. 70** P-24067, Pump By-Pass Jet **2 No. 56**; Pump capacity **11** to **14** c c per 10 slow strokes with pump rod link set in middle setting (**Tool T-24972**). Pump action takes place during acceleration period only

IDLE SYSTEM—Idle Discharge holes **Nos. 56-58.** With throttle valve fully closed and **No. 58** drill in idle hole, edge of valve is located **Flush + .006"-.000"** from **No. 58** drill, Idle Air Bleed **No. 54** P 20470, Idle Tube No P-21778 Adjustment· Adjust to smooth running, OUT to make richer and IN to make leaner, throttle at 7 to 8 M P H

VACUUM SPARK CONTROL—Drill **2 No. 60** spark holes above throttle valve and **1 No. 60** hole drilled at random below throttle valve With throttle fully closed and **No. 60** drill in spark hole (above valve), edge of valve is located **Flush** from **No. 60** drill

FLANGE GASKET—P-24137 with elongated slot for use with governor, P 24314 with 4 slots

SPECIAL TOOLS REQUIRED—T-24733 Float Adj and power piston wrench T 24967 Main Discharge Jet Remover, T-24924 Main Metering Jet Wrench, T-24970 By Pass Jet and Check Valve Tester, T 24972 Pump Capacity Burrette Gauge, T-24968 Handle T-19099 Main jet plug screwdriver

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MOTOR TUNE-UP DATA

**SPARK PLUG—
Clean and adjust at regular intervals.**

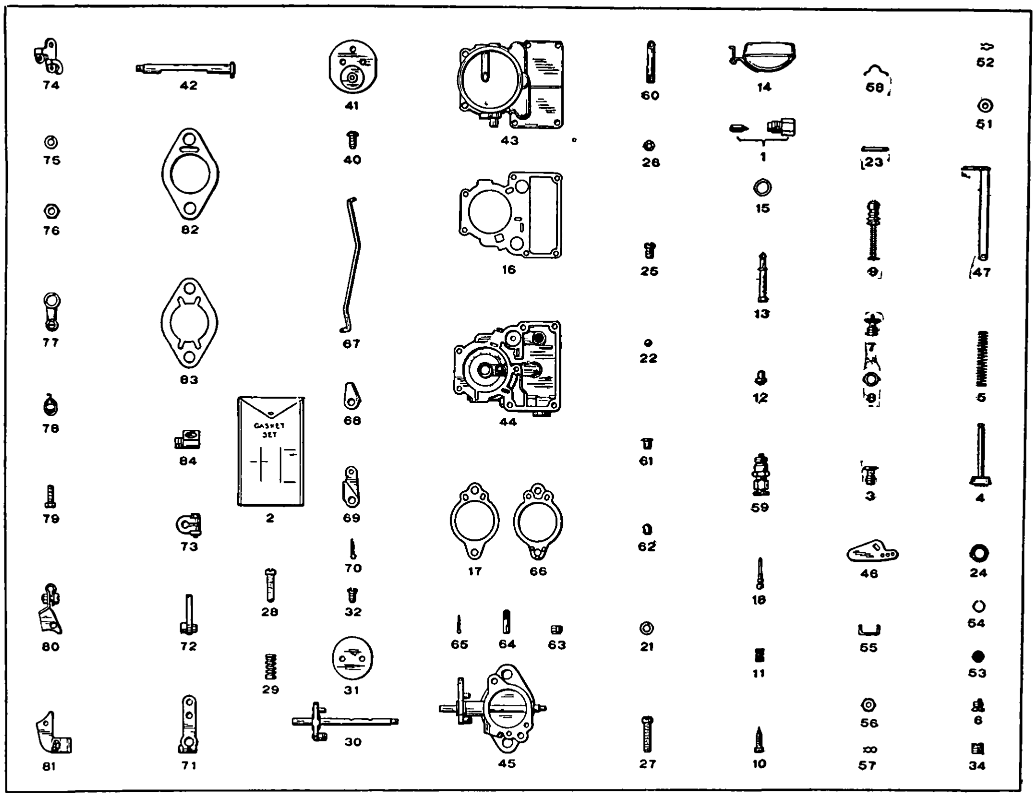
DISTRIBUTOR—Set breaker gap. Replace points if necessary.

IGNITION TIMING—Use timing light.

VALVES—Intake: Exhaust: Adjust with engine hot.

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No.	Part No.	Part Name
	1	P-24063	Float Needle Valve and Seat 086″ (NOT VAR.)
	2	J-5409-G	Complete Gasket Set
	3	P-24062	Pump By Pass Jet No 56 (NOT VAR.)
	4	P-24039	Pump Piston and Stem (Complete)
	5	P-24287	Spring—Pump Duration
	6	P-18144	Pump Inlet Check Valve
	7	P-21197	Power By Pass Jet No 54 (NOT VAR.)
	8	P-19448	Gasket—By Pass Jet
	9	P-24043	Vacuum Power Piston
	10	P-17402	Idle Needle Valve
	11	P-15481	Spring—Idle Needle Valve
	12	P-19442	Metering Jet 060″ (VAR.)
	13	P-24036	Main Discharge Jet No 28 36 (NOT VAR.)
	14	P-22081	Float with Lever
	15	P-10666	Gasket—Float Needle Valve Seat
	16	P-24053	Gasket—Air Horn
	17	P-24037	Gasket—Main Body
	18	P-21778	Idle Tube
	21	P-3157	Lockwasher—Main Body Attach Screw
	22	P-18772	Lead Ball
	23	P-23272	Fulcrum Pin—Float Lever
	24	P-16960	Spring—Pump Piston Leather Expansion
	25	P-3199	Screw—Air Horn Attaching
	26	P-1791	Lockwasher—Air Horn Attaching Screw
	27	P-22025	Screw—Main Body Attaching
	28	P-15456	Screw—Throttle Stop
	29	P-15831	Spring—Throttle Stop Screw
	30	P-24257	Throttle Lever and Stem
	31	P-24059	Throttle Valve (20°) (NOT VAR.)
	32	P-4522	Screw—Throttle Valve Attaching
	34	P-23269	Plug—Check Valve
	40	P-22573	Screw—Choke Valve Attach
	41	P-24046	Choke Valve
	42	P-24077	Choke Stem and Lever
	43	P-24709	Assy —Air Horn
	44	P-24791	Assy —Main Body 1-5/32″ Venturi No 68 High Speed Bleeder (VAR.)
	45	P-24797	Assy —Throttle Body No. 56-58 Idle Discharge Holes (VAR.)
	46	P-23666	Pump Lever
	47	P-24042	Pump Rod
	51	P-24215	Washer—Pump Stem
	52	P-21338	Cotter Pin—Pump Stem
	53	P-23270	Screen—Pump Strainer
	54	P-23271	Spring Clip—Pump Strainer Screen
	55	P-18368	Pump Link
	56	P-2290	Nut—Pump Lever
	57	P-19374	Cotter Pin—Pump Link
	58	P-23273	Spring—Float Fulcrum Pin
	59	P-24268	Adjustable Metering Jet .060″ (VAR.)
	60	P-24045	Vent Tube
	61	P-15459	Drive Plug—¼″
	62	P-24315	High Speed Bleeder No 60 (NOT VAR.)
	63	P-3292	Pipe Plug—Gov Conn and Spark Conn
	64	P-23620	Stop Pin—Throttle Body
	65	P-7170	Cotter Pin—Fast Idle Cam Lever
	66	P-23857-T	Spacer—Insulator—Main Body
	67	P-24060	Fast Idle Rod
	68	P-23622	Fast Idle Cam
	69	P-23621	Fast Idle Cam Lever
	70	112-S-22	Cotter Pin—Fast Idle Rod
	71	P-23215	Throttle Lever
	72	P-15424	Throttle Loose Lever
	73	P-16487	Throttle Loose Lever Stop
	74	P-24052	Fast Idle Lever
	75	P-6668	Lockwasher—Fast Idle Lever Attach Nut
	76	P-16571	Nut—Fast Idle Lever Attach
	77	P-24081	Manual Choke Lever
	78	P-24080	Spring—Manual Choke Lever
	79	P-24087	Screw—Choke Tube Holder Attach
	80	P-24260	Throttle Loose Lever Tube Holder
		P-2229	Screw—Thorttle Loose Lever Tube Holder Clamp
		P-2290	Nut—Throttle Loose Lever Tube Holder Clamp Screw
		P-15875	Lockwasher—Throttle Loose Lever Tube Holder Clamp Screw
	81	P-24086	Choke Tube Holder
		P-2229	Screw—Choke Tube Clamp
		P-2290	Nut—Choke Tube Clamp Screw
		P-15875	Lockwasher—Choke Tube Clamp Screw
	82	P-24137	Flange Gasket
	83	P-24314	Flange Gasket
	84	P-17481	Union

BENDIX PRODUCTS DIVISION

SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

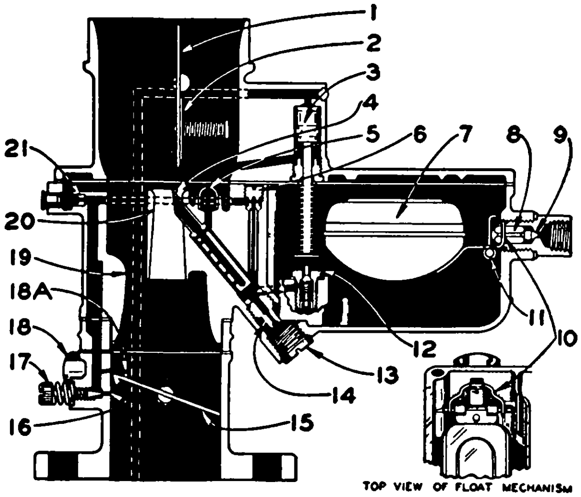
STROMBERG BXOV-25 CARBURETOR

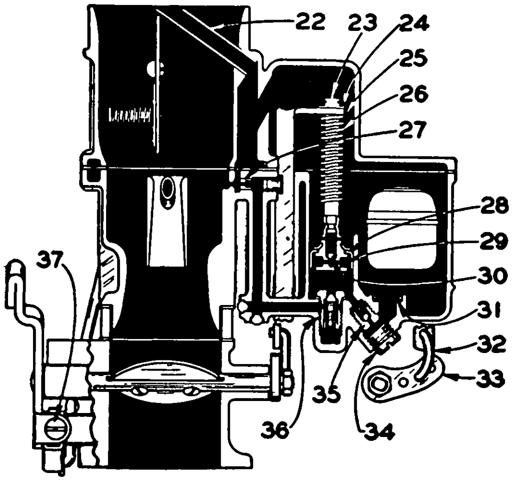
STROMBERG NO. A-19112 (CODE NO. 1-97)

SIZE 1-3/8" D D S A E 2-11/16" FLANGE CENTERS

PARTS ILLUSTRATED

1 Choke Valve
2 Choke Relief Valve
3 Vacuum Power Piston
4 Main Discharge Jet
5 High Speed Bleeder
6 Idle Tube
7 Float
8 Float Needle Valve
9 Float Needle Valve Seat
10 Float Fulcrum Pin Clip
11 Float Fulcrum Pin
12 Power By Pass Jet
13 Main Jet Plug
14 Main Metering Jet
15 Throttle Valve
16 Idle Discharge Holes
17 Idle Needle Valve
18 Vacuum Spark Conn
18A Vacuum Spark Hole
19 Primary Venturi
20 Auxiliary Venturi
21 Idle Air Bleed
22 Float Chamber Vent
23 Piston Conn Rod
24 Cotter Pin
25 Pump Piston Rod
26 Pump Duration Spring
27 Pump Discharge Nozzle
28 Pump Piston





29 Pump Piston Exp Spring
30 Pump Relief Valve
31 Pump Inlet Strainer
32 Pump Link
33 Pump Lever
34 Pump Inlet Plug
35 Pump Inlet Check Valve
36 Pump By Pass Jet
37 Throttle Stop Screw

Note—Specifications below are for latest production; previous major changes listed on parts page.

FUEL LEVEL—Measure **5/8"** below top surface of float chamber (without gasket) at 3 lbs pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level).

MAIN METERING SYSTEM — Venturi **1-5/32"**; Main Discharge Jet **No. 28-36** P-24036 (**Tool T-24967**); High Speed Bleeder **No. 68** P-24315 Main Metering Jet **.060"** P 19442 (**Tool T-24924**); Adj Metering Jet **.060"** P-24268 Main metering system controls the flow of fuel up to approximately 65 to 70 M P H.

POWER SYSTEM — Power By Pass Jet **No. 54** P-21197, Power jet to come into operation at **4"** to **6"** of manifold vacuum, which is approximately 65 to 70 M P H Use **Tool T-24733** to remove vacuum power piston

ACCELERATION—Pump Discharge Reducer **No. 70** P-24067, Pump By Pass Jet **2 No. 56**; Pump capacity **11** to **14** c c per 10 slow strokes with pump rod link set in middle setting Use **Tool T-24972.** Pump action takes place during acceleration period only

IDLE SYSTEM—Idle Discharge holes **Nos. 56-58.** With throttle valve fully closed and **No. 58** drill in idle hole, edge of valve is located **Flush + .006"-.000"** from **No. 58** drill, Idle Air Bleed **No. 54** P 20470 Idle Tube **No. 70** P-21778 Adjustment Adjust to smooth running, OUT to make richer and IN to make leaner, throttle at 7 to 8 M P H

THERMOSTAT SETTING—Set thermostat **12** graduations rich from mark "0"

VACUUM SPARK CONTROL—Drill **2 No. 60** spark holes above throttle valve and **1 No. 60** hole drilled at random below throttle valve With throttle fully closed and **No. 60** drill in spark hole (above valve), edge of valve is located **Flush** from **No. 60** drill.

FLANGE GASKET—P 24314 with 4 slots P-24137 with elongated slot, for use with governor.

SPECIAL TOOLS REQUIRED—T-24733 Float Adj and power piston wrench T 24967 Main Discharge Jet Remover, T 24924 Main Metering Jet Wrench, T-24970 By Pass Jet and Check Valve Tester, T-24972 Pump Capacity Burrette Gauge, T-24968 Handle

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MOTOR TUNE-UP DATA

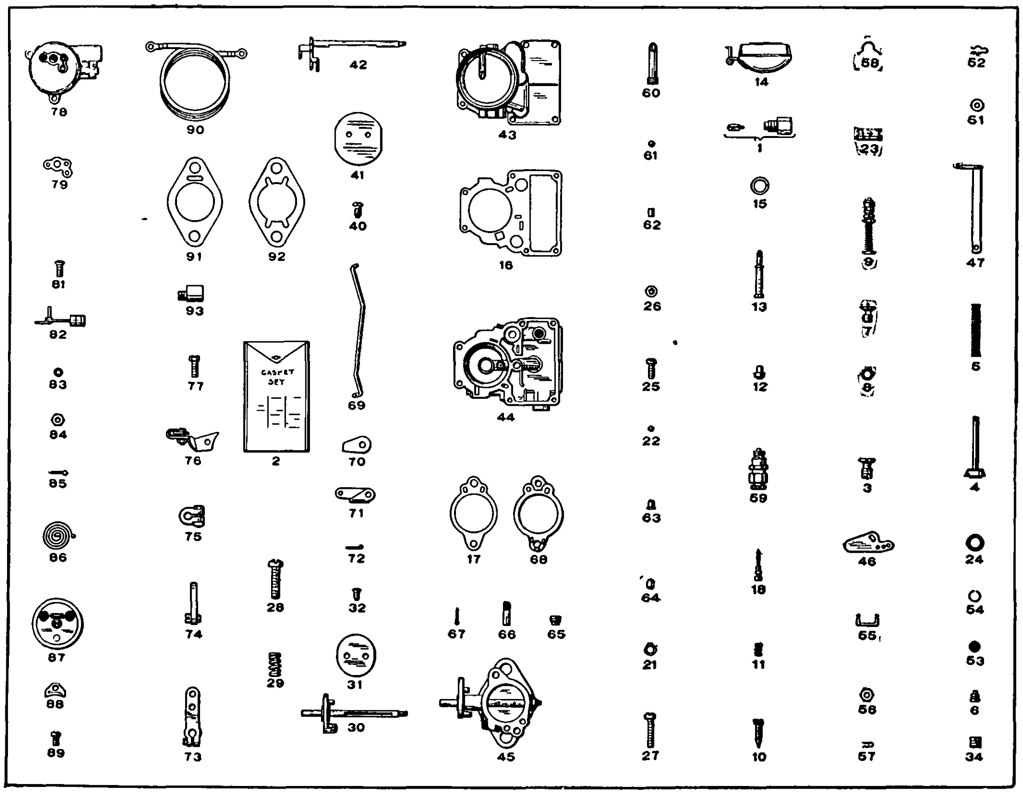
SPARK PLUG—
Clean and adjust at regular intervals.

DISTRIBUTOR—Set breaker gap. Replace points if necessary.

IGNITION TIMING—Use timing light.

VALVES—Intake: Exhaust: Adjust with engin hot.

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No.	Part No.	Part Name	
	1	**P-24063**	Float Needle Valve and Seat 086″	**(NOT VAR)**
	2	**J-5562-G**	Complete Gasket Set	
	3	**P-24062**	Pump By Pass Jet No 56	**(NOT VAR)**
	4	**P-24039**	Pump Piston and Stem (Complete)	
	5	**P-24287**	Spring—Pump Duration	
	6	**P-18144**	Pump Inlet Check Valve	
	7	**P-21197**	Power By Pass Jet No 54	**(NOT VAR)**
	8	**P-19448**	Gasket—By Pass Jets	
	9	**P-24043**	Vacuum Power Piston	
	10	**P-17402**	Idle Needle Valve	
	11	**P-15481**	Spring—Idle Needle Valve	
	12	**P-19442**	Metering Jet **060″**	**(VAR)**
	13	**P-24036**	Main Discharge Jet No 28 36	**(NOT VAR)**
	14	**P-22081**	Float with Lever	
	15	**P-10666**	Gasket—Float Needle Valve Seat	
	16	**P-24053**	Gasket—Air Horn	
	17	**P-24037**	Gasket—Main Body	
	18	**P-21778**	Idle Tube	
	21	**P-3157**	Lockwasher—Main Body Attach Screw	
	22	**P-18772**	Lead Ball	
	23	**P-23272**	Fulcrum Pin—Float Lever	
	24	**P-16960**	Spring—Pump Piston Leather Expansion	
	25	**P-3199**	Screw—Air Horn Attaching	
	26	**P-1791**	Lockwasher—Air Horn Attaching Screw	
	27	**P-22025**	Screw—Main Body Attaching	
	28	**P-15456**	Screw—Throttle Stop	
	29	**P-15831**	Spring—Throttle Stop Screw	
	30	**P-24257**	Throttle Lever and Stem	
	31	**P-24059**	Throttle Valve (20°)	**(NOT VAR)**
	32	**P-4522**	Screw—Throttle Valve Attaching	
	34	**P-23269**	Plug—Check Valve	
	40	**P-22573**	Screw—Choke Valve Attach	
	41	**P-24447**	Choke Valve	
	42	**P-24443**	Choke Stem and Lever	
	43	**P-24799**	Assy —Air Horn	
	44	**P-24791**	Assy —Main Body **1-5/32″** Venturi **No 68** High Speed Bleeder	**(VAR)**
	45	**P-24797**	Assy —Throttle Body **No 56-58** Idle Discharge Holes	**(VAR)**
	46	**P-23666**	Pump Lever	
	47	**P-24042**	Pump Rod	
	51	**P-24215**	Washer—Pump Stem	
	52	**P-21338**	Cotter Pin—Pump Stem	
	53	**P-23270**	Screen—Pump Strainer	
	54	**P-23271**	Spring Clip—Pump Strainer Screen	
	55	**P-18368**	Pump Link	
	56	**P-2290**	Nut—Pump Lever	
	57	**P-19374**	Cotter Pin—Pump Link	
	58	**P-23273**	Spring—Float Fulcrum Pin	
	59	**P-24268**	Adjustable Metering Jet **060″**	**(VAR)**
	60	**P-24045**	Vent Tube	
	61	**P-21700**	Lead Ball—Vacuum Channel	
	62	**P-24446**	Reducer—Vacuum Channel	
	63	**P-15459**	Drive Plug—¼″	
	64	**P-24315**	High Speed Bleeder No 68	**(NOT VAR)**
	65	**P-3292**	Pipe Plug—Gov Conn and Vac Spark Conn	
	66	**P-23620**	Stop Pin—Throttle Body	
	67	**P-7170**	Cotter Pin—Fast Idle Cam Lever	
	68	**P-23857**	Spacer—Insulator—Main Body	
	69	**P-24060**	Fast Idle Rod	
	70	**P-23622**	Fast Idle Cam	
	71	**P-23621**	Fast Idle Cam Lever	
	72	**112-S-22**	Cotter Pin—Fast Idle Rod	
	73	**P-23215**	Throttle Lever	
		P-3199	Screw—Throttle Lever Clamp	
	74	**P-15424**	Throttle Loose Lever	
		P-9270	Screw—Throttle Loose Lever Clamp	
	75	**P-16487**	Throttle Loose Lever Stop	
		P-18769	Screw—Throttle Loose Lever Clamp	
		P-18299	Nut—Throttle Loose Lever Clamp Screw	
	76	**P-24260**	Throttle Loose Lever Tube Holder	
		P-2229	Screw—Throttle Loose Lever Tube Holder Clamp	
		P-2290	Nut—Throttle Loose Lever Tube Holder Clamp Screw	
		P-15875	Lockwasher—Throttle Loose Lever Tube Holder Clamp Screw	
	77	**P-24087**	Screw—Choke Tube Holder Attach	
	78	**P-24442**	Choke Housing	
	79	**P-23297**	Gasket—Choke Housing	
	81	**P-24445**	Screw—Choke Housing Attach	
	82	**P-24346**	Vacuum Choke Piston and Link	
	83	**P-15875**	Lockwasher—Vac Choke Piston Lever	
	84	**P-16571**	Nut—Vac Choke Piston Lever Lock	
	85	**P-4**	Cotter Pin—Thermostat Post	
	86	**P-21507**	Thermostat	
	87	**P-23124**	Assy —Electric Unit	
	88	**P-23932**	Washer—Electric Unit Attach Screw	
	89	**P-2866**	Screw—Electric Unit Attach	
	90	**P-21987**	Automatic Choke Wire	
	91	**P-24137**	Flange Gasket	
	92	**P-24314**	Flange Gasket	
	93	**P-17481**	Union	

BENDIX PRODUCTS DIVISION

SOUTH BEND **OF BENDIX AVIATION CORPORATION** **INDIANA**

STROMBERG BXUV-3 CARBURETOR

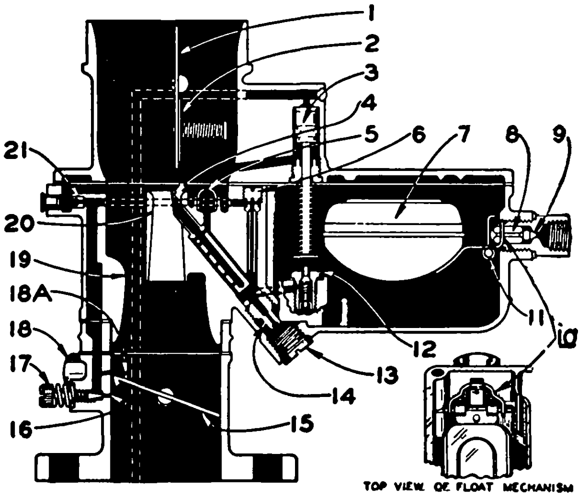
STANDARD
BXUV-3

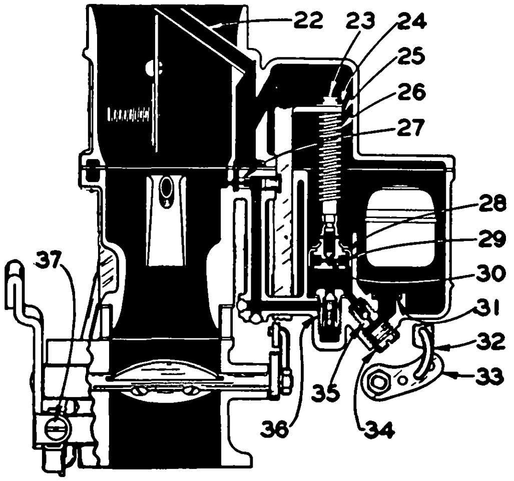
STROMBERG NO A-19103 (CODE NO 1-98)

SIZE 1-3/8″ D D S A E 2-15/16″ FLANGE CENTERS

PARTS ILLUSTRATED

1 Choke Valve
2 Choke Relief Valve
3 Vacuum Power Piston
4 Main Discharge Jet
5 High Speed Bleeder
6 Idle Tube
7 Float
8 Float Needle Valve
9 Float Needle Valve Seat
10 Float Fulcrum Pin Clip
11 Float Fulcrum Pin
12 Power By Pass Jet
13 Main Jet Plug
14 Main Metering Jet
15 Throttle Valve
16 Idle Discharge Holes
17 Idle Needle Valve
18 Vacuum Spark Conn
18A Vacuum Spark Hole
19 Primary Venturi
20 Auxiliary Venturi
21 Idle Air Bleed
22 Float Chamber Vent
23 Piston Conn Rod
24 Cotter Pin
25 Pump Piston Rod
26 Pump Duration Spring
27 Pump Discharge Nozzle
28 Pump Piston
29 Pump Piston Fxp Spring
30 Pump Relief Valve
31 Pump Inlet Strainer
32 Pump Link
33 Pump Lever
34 Pump Inlet Plug
35 Pump Inlet Check Valve
36 Pump By Pass Jet
37 Throttle Stop Screw





Note—Specifications below are for latest production; previous major changes listed on parts page.

FUEL LEVEL—Measure **5/8″** below top surface of float chamber (without gasket) at 3 lbs pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level)

MAIN METERING SYSTEM—Venturi **1-5/32″**; Main Discharge Jet **No. 28-36** P-24036 (**Tool T-24967**); High Speed Bleeder **No. 68** P 24315 Main Metering Jet **.060″** P-19442 (**Tool T-24924**); Adjustable Metering Jet **.060″** P-24268 Use **Tool T-19099** Screwdriver for removing main jet plug Main metering system controls the flow of fuel up to approximately 65 to 70 M P H

POWER SYSTEM—Power By-Pass Jet **No. 54** P 21197, Power jet to come into operation at **4″** to **6″** of manifold vacuum, which is approximately 65 to 70 M P H (**Tool T-24733**) used to remove vacuum power piston

ACCELERATION—Pump Discharge Reducer **No. 70** P-24067, Pump By Pass Jet **2 No. 56**; Pump capacity **11** to **14** c c per 10 slow strokes with pump rod link set in middle setting (Use **Tool T-24972.**) Pump action takes place during acceleration period only.

IDLE SYSTEM—Idle Discharge holes **Nos. 56-58.** With throttle valve fully closed and **No. 58** drill in idle hole, edge of valve is located **Flush** + **.006″-.000″** from **No. 58** drill, Idle Air Bleed **No. 54** P-20470, Idle Tube **No. 70** P-21778 Adjustment Adjust to smooth running, OUT to make richer and IN to make leaner, throttle at 7 to 8 M P H

VACUUM SPARK CONTROL—Drill **2 No. 60** spark holes above throttle valve and **1 No. 60** hole drilled at random below throttle valve With throttle fully closed and **No. 60** drill in spark hole (above valve), edge of valve is located **Flush** from **No. 60** drill

FLANGE GASKET—P-24136 with elongated slot, for use with governor P 24266 with 4 slots

SPECIAL TOOLS REQUIRED—T-24733 Float Adj and power piston wrench T-24967 Main Discharge Jet Remover, T-24924 Main Metering Jet Wrench, T-24970 By-Pass Jet and Check Valve Tester, T-24972 Pump Capacity Burrette Gauge, T-24968 Handle T-19099 Main jet plug screwdriver

MOTOR TUNE-UP DATA

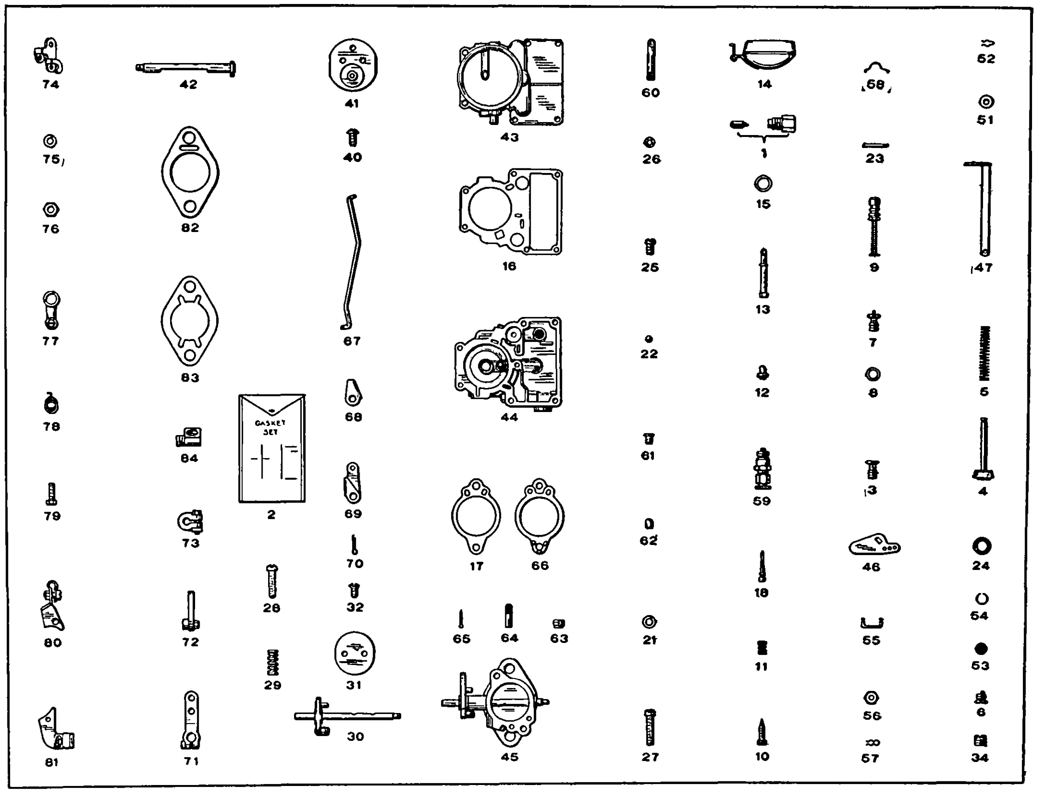
SPARK PLUG—
Clean and adjust at regular intervals.

DISTRIBUTOR—Set breaker gap. Replace points if necessary.

IGNITION TIMING—Use timing light.

VALVES—Intake: Exhaust: Adjust with engine hot.

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No	Part No	Part Name	
	1	P-24063	Float Needle Valve and Seat 086′	(NOT VAR)
	2	J-5409-G	Complete Gasket Set	
	3	P-24062	Pump By Pass Jet No 56	(NOT VAR)
	4	P-24039	Pump Piston and Stem (Complete)	
	5	P-24287	Spring—Pump Duration	
	6	P-18144	Pump Inlet Check Valve	
	7	P-21197	Power By Pass Jet No 54	(NOT VAR)
	8	P-19448	Gasket—By Pass Jet	
	9	P-24043	Vacuum Power Piston	
	10	P-17402	Idle Needle Valve	
	11	P-15481	Spring—Idle Needle Valve	
	12	P-19442	Metering Jet 060″	(VAR)
	13	P-24036	Main Discharge Jet No 28 36	(NOT VAR)
	14	P-22081	Float with Lever	
	15	P-10666	Gasket—Float Needle Valve Seat	
	16	P-24053	Gasket—Air Horn	
	17	P-24037	Gasket—Main Body	
	18	P-21778	Idle Tube	
	21	P-3157	Lockwasher—Main Body Attach Screw	
	22	P-18772	Lead Ball	
	23	P-23272	Fulcrum Pin—Float Lever	
	24	P-16960	Spring—Pump Piston Leather Expansion	
	25	P-3199	Screw—Air Horn Attaching	
	26	P-1791	Lockwasher—Air Horn Attaching Screw	
	27	P-22025	Screw—Main Body Attaching	
	28	P-15456	Screw—Throttle Stop	
	29	P-15831	Spring Throttle Stop Screw	
	30	P-24257	Throttle Lever and Stem	
	31	P-24059	Throttle Valve (20°)	(NOT VAR)
	32	P-4522	Screw—Throttle Valve Attaching	
	34	P-23269	Plug—Check Valve	
	40	P-22573	Screw—Choke Valve Attach	
	41	P-24046	Choke Valve	
	42	P-24077	Choke Stem and Lever	
	43	P-24709	Assy —Air Horn	
	44	P-24791	Assy —Main Body 1-5/32″ Venturi No 68 High Speed Bleeder	(VAR)
	45	P-24794	Assy —Throttle Body No 56-58 Idle Discharge Holes	(VAR)
	46	P-23666	Pump Lever	
	47	P-24042	Pump Rod	
	51	P-24215	Washer—Pump Stem	
	52	P-21338	Cotter Pin—Pump Stem	
	53	P-23270	Screen—Pump Strainer	
	54	P-23271	Spring Clip—Pump Strainer Screen	
	55	P-18368	Pump Link	
	56	P-2290	Nut—Pump Lever	
	57	P-19374	Cotter Pin—Pump Link	
	58	P-23273	Spring—Float Fulcrum Pin	
	59	P-24268	Adjustable Metering Jet 060′	(VAR)
	60	P-24045	Vent Tube	
	61	P-15459	Plug—Drive ¼″	
	62	P-24315	High Speed Bleeder No 68	(NOT VAR)
	63	P-3292	Plug—Gov Conn and Vac Spark Conn	
	64	P-23620	Stop Pin—Throttle Body	
	65	P-7170	Cotter Pin—Fast Idle Cam Lever	
	66	P-23857	Spacer—Insulator—Main Body	
	67	P-24060	Fast Idle Rod	
	68	P-23622	Fast Idle Cam	
	69	P-23621	Fast Idle Cam Lever	
	70	112-S-22	Cotter Pin—Fast Idle Rod	
	71	P-23215	Throttle Lever	
	72	P-15424	Throttle Loose Lever	
	73	P-16487	Throttle Loose Lever Stop	
	74	P-24052	Fast Idle Lever	
	75	P-6668	Lockwasher—Fast Idle Lever Attach Nut	
	76	P-16571	Nut—Fast Idle Lever Attach	
	77	P-24081	Manual Choke Lever	
	78	P-24080	Spring—Manual Choke Lever	
	79	P-24087	Screw—Choke Tube Holder Attach	
	80	P-24260	Throttle Loose Lever Tube Holder	
	81	P-24086	Choke Tube Holder	
	82	P-24136	Flange Gasket	
	83	P-24266	Flange Gasket	
	84	P-17481	Union	

BENDIX PRODUCTS DIVISION

SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

Printed in U. S. A.

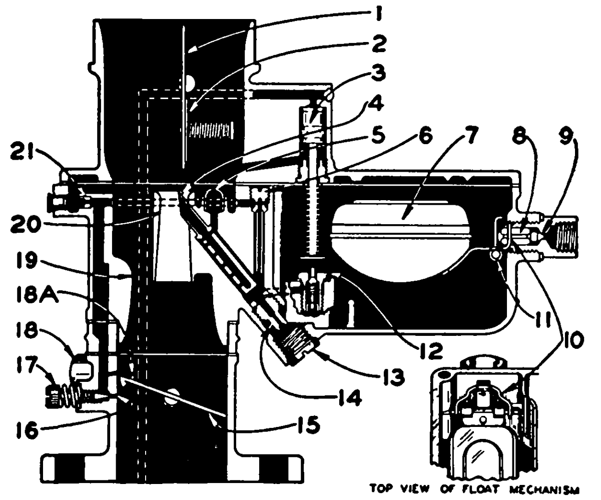
STROMBERG BXUV-35 CARBTRETOR

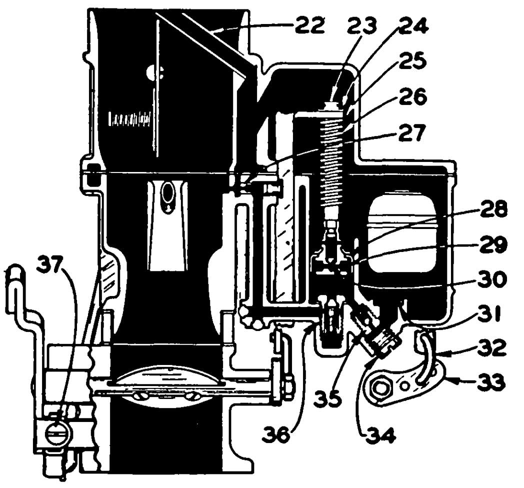
STROMBERG NO. A-19113 (CODE NO. 1-99)

SIZE: 1-3/8″ D D. S A E. 2-15/16″ FLANGE CENTERS

PARTS ILLUSTRATED

1 Choke Valve
2 Choke Relief Valve
3 Vacuum Power Piston
4 Main Discharge Jet
5 High Speed Bleeder
6 Idle Tube
7 Float
8 Float Needle Valve
9 Float Needle Valve Seat
10 Float Fulcrum Pin Clip
11 Float Fulcrum Pin
12 Power By Pass Jet
13 Main Jet Plug
14 Main Metering Jet
15 Throttle Valve
16 Idle Discharge Holes
17 Idle Needle Valve
18 Vacuum Spark Conn
18A Vacuum Spark Hole
19 Primary Venturi
20 Auxiliary Venturi
21 Idle Air Bleed
22 Float Chamber Vent
23 Piston Conn Rod
24 Cotter Pin
25 Pump Piston Rod
26 Pump Duration Spring
27 Pump Discharge Nozzle
28 Pump Piston
29 Pump Piston Exp Spring
30 Pump Relief Valve
31 Pump Inlet Strainer
32 Pump Link
33 Pump Lever
34 Pump Inlet Plug
35 Pump Inlet Check Valve
36 Pump By Pass Jet
37 Throttle Stop Screw





Note—Specifications below are for latest production; previous major changes listed on parts page.

FUEL LEVEL—Measure **5/8″** below top surface of float chamber (without gasket) at 3 lbs pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level).

MAIN METERING SYSTEM—Venturi **1-5/32″**; Main Discharge Jet **No. 28-36** P-24036 (**Tool T-24967**); High Speed Bleeder **No. 68** P 24315 Main Metering Jet **.060″** P 19442 (**Tool T-24924**); Adjustable Metering Jet **.060″** P-24268 Main metering system controls the flow of fuel up to approximately 65 to 70 M P H

POWER SYSTEM—Power By-Pass Jet **No. 54** P-21197, Power jet to come into operation at **4″** to **6″** of manifold vacuum, which is approximately 65 to 70 M P H Use **Tool T-24733** to remove vacuum power piston

ACCELERATION—Pump Discharge Reducer **No. 70** P-24067, Pump By-Pass Jet **2 No. 56**; Pump capacity **11** to **14** c c per 10 slow strokes with pump rod link set in middle setting Use **Tool T-24972.** Pump action takes place during acceleration period only

IDLE SYSTEM—Idle Discharge holes **Nos. 56-58.** With throttle valve fully closed and **No. 58** drill in idle hole, edge of valve is located **Flush** + **.006″-.000″** from **No. 58** drill, Idle Air Bleed **No. 54** P-20470, Idle Tube **No. 70** P-21178 Adjustment Adjust to smooth running, OUT to make richer and IN to make leaner, throttle at 7 to 8 M P H

THERMOSTAT SETTING—Set thermostat **12** graduations rich from mark "0"

VACUUM SPARK CONTROL—Drill **2 No. 60** spark holes above throttle valve and **1 No. 60** hole drilled at random below throttle valve With throttle fully closed and **No. 60** drill in spark hole (above valve), edge of valve is located **Flush** from **No. 60** drill

FLANGE GASKET—P-24136—With elongated slot
Use with governor
P-24266—With 4 slots

SPECIAL TOOLS REQUIRED—T-24733 Float Adj and power piston wrench T-24967 Main Discharge Jet Remover, T-24924 Main Metering Jet Wrench, T-24970 By-Pass Jet and Check Valve tester, T-24972 Pump Capacity Burrette Gauge, T-24968 Handle

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MOTOR TUNE-UP DATA

SPARK PLUG—Clean and adjust at regular intervals.

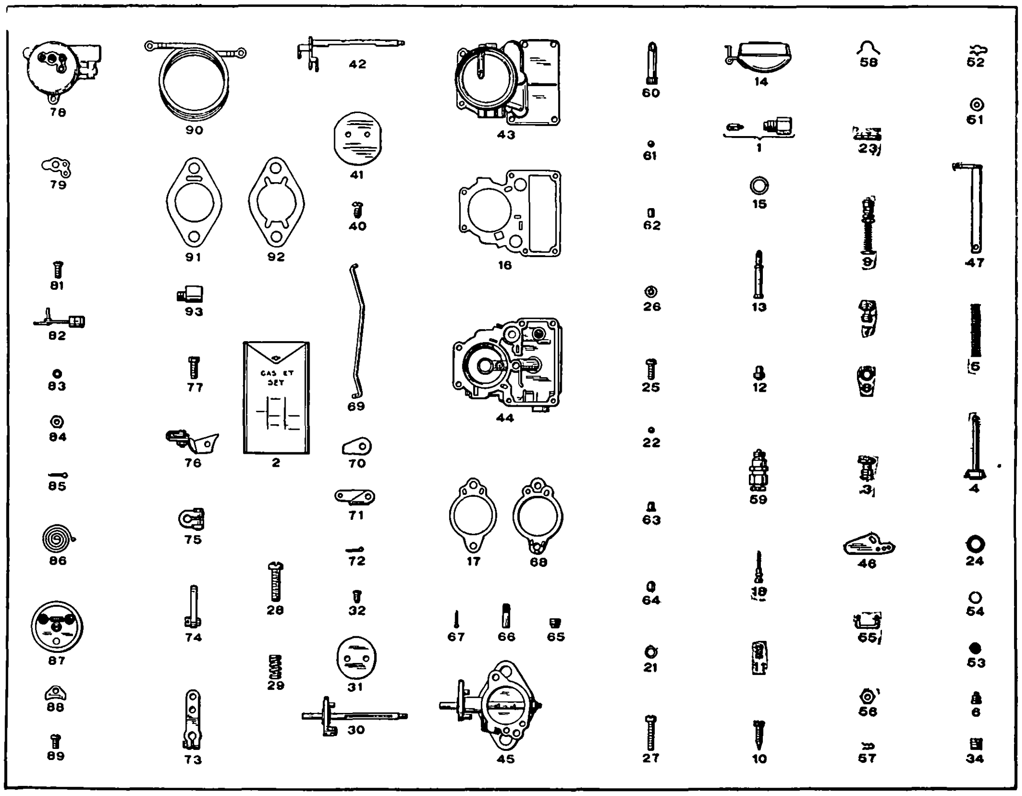
DISTRIBUTOR—Set breaker gap. Replace points if necessary.

IGNITION TIMING—Use timing light.

VALVES—Intake: Exhaust: Adjust with engine hot.

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No	Part No	Part Name	
	1	**P-24063**	Float Needle Valve and Seat 086′	**(NOT VAR)**
	2	**J-5562-G**	Complete Gasket Set	
	3	**P-24062**	Pump By Pass Jet No 56	**(NOT VAR)**
	4	**P-24039**	Pump Piston and Stem (Complete)	
	5	**P-24287**	Spring—Pump Duration	
	6	**P-18144**	Pump Inlet Check Valve	
	7	**P-21197**	Power By Pass Jet No 54	**(NOT VAR)**
	8	**P-19448**	Gasket—By Pass Jet	
	9	**P-24043**	Vacuum Power Piston	
	10	**P-17402**	Idle Needle Valve	
	11	**P-15481**	Spring—Idle Needle Valve	
	12	**P-19442**	Metering Jet **060″**	**(VAR)**
	13	**P-24036**	Main Discharge Jet No 28 36	**(NOT VAR)**
	14	**P-22081**	Float with Lever	
	15	**P-10666**	Gasket—Float Needle Valve Seat	
	16	**P 24053**	Gasket—Air Horn	
	17	**P-24037**	Gasket—Main Body	
	18	**P-21778**	Idle Tube	
	21	**P-3157**	Lockwasher—Main Body Attach Screw	
	22	**P-18772**	Lead Ball	
	23	**P-23272**	Fulcrum Pin—Float Lever	
	24	**P-16360**	Spring—Pump Piston Leather Expansion	
	25	**P-3199**	Screw—Air Horn Attaching	
	26	**P-1791**	Lockwasher—Air Horn Attaching Screw	
	27	**P-22025**	Screw—Main Body Attaching	
	28	**P-15456**	Screw—Throttle Stop	
	29	**P-15831**	Spring—Throttle Stop Screw	
	30	**P-24257**	Throttle Lever and Stem	
	31	**P-24059**	Throttle Valve (20°)	**(NOT VAR)**
	32	**P-4522**	Screw—Throttle Valve Attaching	
	34	**P-23269**	Plug—Check Valve	
	40	**P-22573**	Screw—Choke Valve Attach	
	41	**P-24447**	Choke Valve	
	42	**P-24443**	Choke Stem and Lever	
	43	**P-24799**	Assy —Air Horn	
	44	**P-24791**	Assy —Main Body **1-5/32** Venturi **No 68** High Speed Bleeder	**(VAR)**
	45	**P-24794**	Assy —Throttle Body **No 56-58** Idle Discharge Holes	**(VAR)**
	46	**P-23666**	Pump Lever	
	47	**P-24042**	Pump Rod	
	51	**P-24215**	Washer—Pump Stem	
	52	**P-21338**	Cotter Pin—Pump Stem	
	53	**P-23270**	Screen—Pump Strainer	
	54	**P-23271**	Spring Clip—Pump Strainer Screen	
	55	**P-18368**	Pump Link	
	56	**P-2290**	Nut—Pump Lever	
	57	**P-19374**	Cotter Pin—Pump Link	
	58	**P-23273**	Spring—Float Fulcrum Pin	
	59	**P-24268**	Adjustable Metering Jet **060**	**(VAR)**
	60	**P-24045**	Vent Tube	
	61	**P-21700**	Lead Ball—Vacuum Channel	
	62	**P-24067**	Reducer—Vacuum Channel	
	63	**P-15459**	Plug—Drive ¼″	
	64	**P 24315**	High Speed Bleeder No 68	**(NOT VAR)**
	65	**P 3292**	Plug—Gov Conn and Vac Spark Conn	
	66	**P-23620**	Stop Pin—Throttle Body	
	67	**P-7170**	Cotter Pin—Fast Idle Cam Lever	
	68	**P-23857**	Spacer—Insulator—Main Body	
	69	**P-24060**	Fast Idle Rod	
	70	**P-23622**	Fast Idle Cam	
	71	**P-23621**	Fast Idle Cam Lever	
	72	**112-S 22**	Cotter Pin—Fast Idle Rod	
	73	**P-23215**	Throttle Lever	
	74	**P-15424**	Throttle Loose Lever	
	75	**P-16487**	Throttle Loose Lever Stop	
	76	**P-24260**	Throttle Loose Lever Tube Holder	
	77	**P-24087**	Screw—Throttle Tube Holder Attach	
	78	**P-24442**	Choke Housing	
	79	**P-23297**	Gasket—Choke Housing	
	81	**P-24445**	Screw—Choke Housing Attaching	
	82	**P-24346**	Vacuum Choke Piston and Link	
	83	**P-15875**	Lockwasher—Vac Choke Piston Lever	
	84	**P-16571**	Nut—Vac Choke Piston Lever Lock	
	85	**P-4**	Cotter Pin—Thermostat Post	
	86	**P-21507**	Thermostat	
	87	**P-23124**	Electric Unit	
	88	**P-23932**	Washer—Electric Unit Attach Screw	
	89	**P-2866**	Screw—Electric Unit Attaching	
	90	**P-21997**	Automatic Choke Wire	
	91	**P-24136**	Flange Gasket	
	92	**P-24266**	Flange Gasket	
	93	**P-17431**	Union	

BENDIX PRODUCTS DIVISION
SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

Printed in U S A

STROMBERG EXV-2 CARBURETOR

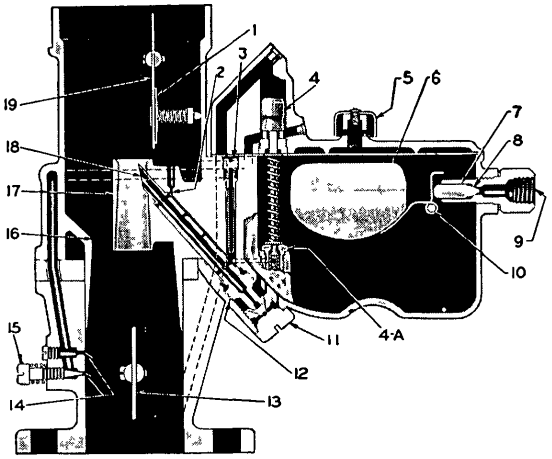
STROMBERG NO. A-18762 (CODE NO. 1-83)

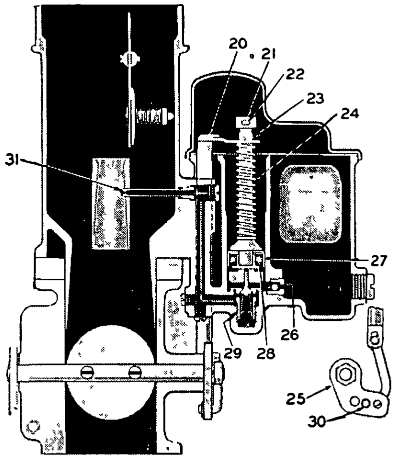
SIZE: 1-1/4″ D. D. S.A.E. 2-11/16″ FLANGE CENTERS

STANDARD
EXV-2
(Without Dome High Speed Bleeder)

PARTS ILLUSTRATED

1. Poppet Valve
2. High Speed Bleeder
3. Idle Tube
4. Vacuum Power Piston
4a. Power By-Pass Jet
5. Float Chamber Vent
6. Float
7. Float Needle Valve
8. Float Needle Valve Seat
9. Gasoline Inlet
10. Float Fulcrum Pin
11. Main Discharge Jet Plug
12. Main Metering Jet
13. Throttle Valve
14. Idle Discharge Holes
15. Idle Needle Valve
16. Primary Venturi
17. Auxiliary Venturi
18. Main Discharge Jet
19. Choke Valve
20. Pump Rod
21. Pump Adjustment Nut
22. Cotter Pin
23. Piston Connecting Rod
24. Pump Duration Spring
25. Pump Lever





26. Pump Inlet Check Valve
27. Pump Piston
28. Pump Piston Expan. Spring
29. Accel. Pump By-Pass Jet
30. Pump Lever Link
31. Pump Discharge Nozzle

Note—Specifications below are for latest production; previous major changes listed on parts page.

FUEL LEVEL—Measure **5/8″** below top surface of float chamber (without gasket) at 3 lbs. pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level).

MAIN METERING SYSTEM—Venturi **1-1/32″**; Main Discharge Jet **No. 28-36** P-18226 (**Tool T-24967**); High Speed Bleeder **No. 70** in body. Main Metering Jet **.051″** P-17004 (**Tool T-23844**); P-23232 **.051″** Adjustable Metering Jet. Main metering system controls the flow of fuel up to approximately 65 to 70 M.P.H.

POWER SYSTEM—Power By-Pass Jet **No. 61** P-21198; Power jet to come into operation at **4″** to **6″** of manifold vacuum, which is approximately 65 to 70 M.P.H. (**Tool T-24733**) used to remove vacuum power piston.

ACCELERATION—Pump Discharge Nozzle **No. 70** P-14358; Pump By-Pass Jet **4 No. 56** P-23228; Pump capacity **11** to **15** c.c. per 10 fast strokes, and **15** to **19** c.c. per 10 slow strokes with pump rod link set in middle setting. (**Tool T-24972**) Pump action takes place during acceleration period only.

IDLE SYSTEM—Idle Discharge holes **Nos. 56-58.** With throttle valve fully closed and **No. 58** drill in idle hole, edge of valve is located **.018″** + — **.004″** from **No. 58** drill; Idle Air Bleed **No. 54** P-15477; Idle Tube **No. 70** P-19424. Adjustment: Adjust to smooth running, OUT to make richer and IN to make leaner; throttle at 7 to 8 M.P.H.

VACUUM SPARK CONTROL—With throttle fully closed and **No. 50** drill in spark hole, edge of valve is located **Flush** from **No. 50** drill.

FLANGE GASKET—P-4752.

SPECIAL TOOLS REQUIRED—T-24733 Float. Adj. and power piston wrench T-24967 Main Discharge Jet Remover; T-23844 Main Metering Jet Wrench; T-24970 By-Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burrette Gauge; T-24968 Handle.

MOTOR TUNE-UP DATA

SPARK PLUG—
Clean and adjust at regular intervals.

DISTRIBUTOR—Set breaker gap. Replace points if necessary.

IGNITION TIMING—Use timing light.

VALVES—Intake: Exhaust: Adjust with engine hot.

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

STROMBERG EXV-2 CARBURETOR

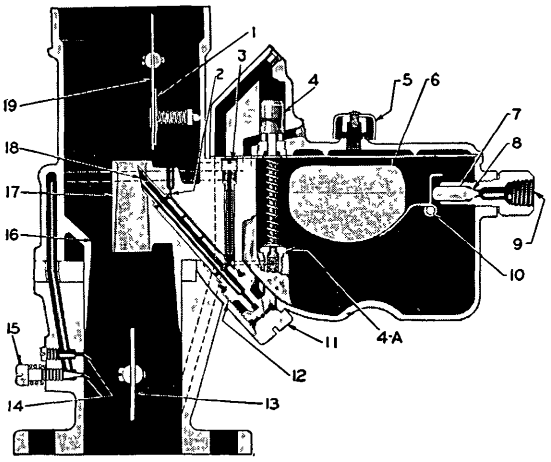
STANDARD
EXV-2
(Without Fast Idle)

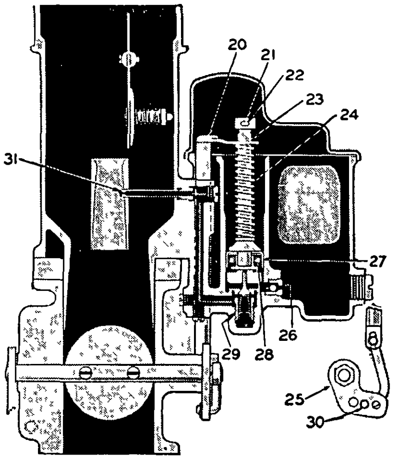
STROMBERG NO. A-18342 (CODE NO. 1-61A

SIZE: 1-1/4″ D. D. S.A.E. 2-11/16″ FLANGE CENTERS — REPLACE WITH BXOV-2 A-19102

PARTS ILLUSTRATED

1. Poppet Valve
2. High Speed Bleeder
3 Idle Tube
4 Vacuum Power Piston
4a Power By-Pass Jet
5. Float Chamber Vent
6 Float
7 Float Needle Valve
8 Float Needle Valve Seat
9. Gasoline Inlet
10. Float Fulcrum Pin
11. Main Discharge Jet Plug
12. Main Metering Jet
13 Throttle Valve
14 Idle Discharge Holes
15. Idle Needle Valve
16 Primary Venturi
17. Auxiliary Venturi
18. Main Discharge Jet
19. Choke Valve
20. Pump Rod
21. Pump Adjustment Nut
22. Cotter Pin
23. Piston Connecting Rod
24 Pump Duration Spring
25 Pump Lever





26 Pump Inlet Check Valve
27. Pump Piston
28 Pump Piston Expan Spring
29. Accel Pump By-Pass Jet
30. Pump Lever Link
31. Pump Discharge Nozzle

Note—Specifications below are for latest production; previous major changes listed on parts page.

FUEL LEVEL—Measure **5/8″** below top surface of float chamber (without gasket) at 3 lbs. pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level).

MAIN METERING SYSTEM — Venturi **1-5/32″**; Main Discharge Jet **No. 28-36** P-18226 (**Tool T-24967**); High Speed Bleeder **No. 70** in body. Main Metering Jet **.093″** P-17152 (**Tool T-23844**); P-18931 Adjustment Needle used with P-17152. Main metering system controls the flow of fuel up to approximately 65 to 70 M.P.H.

POWER SYSTEM—Power By-Pass Jet **No. 54** P-21197; Power jet to come into operation at **4″** to **6″** of manifold vacuum, which is approximately 65 to 70 M P.H. (**Tool T-24733**) used to remove vacuum power piston.

ACCELERATION—Pump Discharge Nozzle **No. 70** P-17020; Pump By-Pass Jet **4 No. 56** P-21076; pump rod link set in maximum setting. (**Tool T-24972**) Pump action takes place during acceleration period only.

IDLE SYSTEM—Idle Discharge holes **Nos. 56-58.** With throttle valve fully closed and **No. 58** drill in idle hole, edge of valve is located **.018″** + — **.004″** from **No. 58** drill; Idle Air Bleed **No. 53** P-15477; Idle Tube **No. 70** P-19424. Adjustment: Adjust to smooth running, OUT to make richer and IN to make leaner; throttle at 7 to 8 M.P.H.

VACUUM SPARK CONTROL—With throttle fully closed and **No. 50** drill in spark hole, edge of valve is located **Flush** from **No. 50** drill.

FLANGE GASKET—P-4752.

SPECIAL TOOLS REQUIRED—T-24733 Float. Adj. and power piston wrench T-24967 Main Discharge Jet Remover; T-23844 Main Metering Jet Wrench; T-24970 By-Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burrette Gauge; T-24968 Handle.

MOTOR TUNE-UP DATA

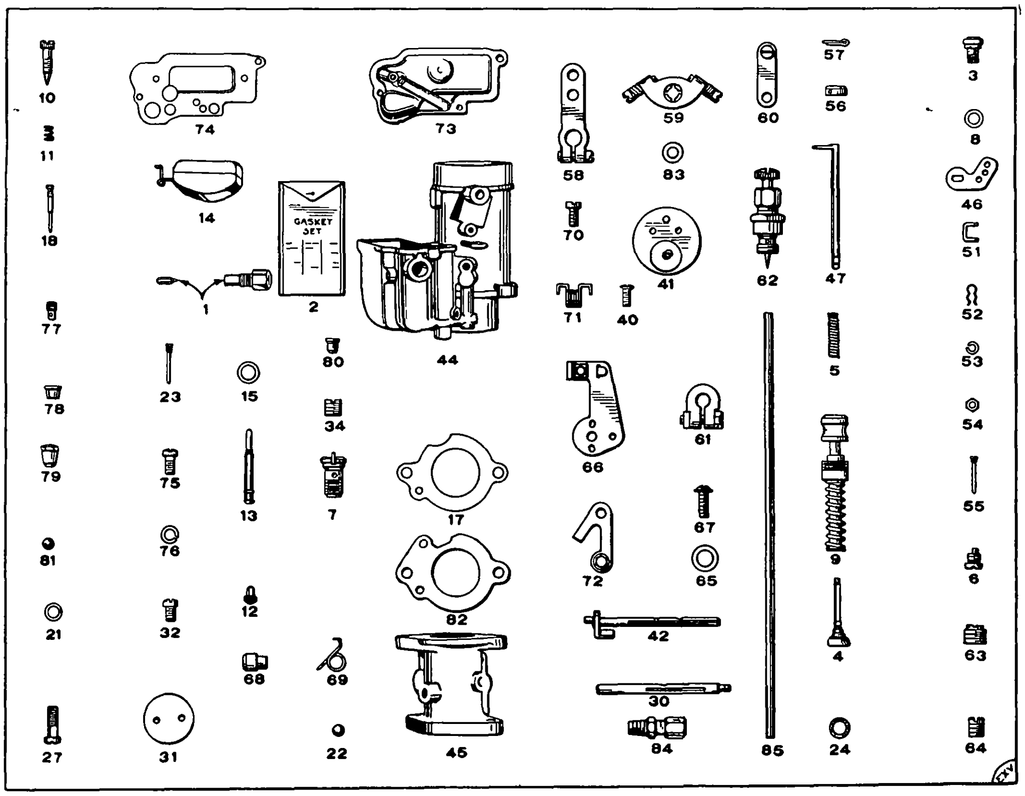
SPARK PLUG— Clean and adjust at regular intervals.

DISTRIBUTOR—Set breaker gap. Replace points if necessary.

IGNITION TIMING—Use timing light.

VALVES—Intake: Exhaust: Adjust with engine hot.

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No	Part No	Part Name
	1	**P-20774**	Float Needle Valve and Seat 086" **(NOT VAR)**
	2	**J-4608-G**	Complete Gasket Set
	3	**P-21076**	Pump By Pass Jet No 56 **(NOT VAR)**
	4	**P-19167**	Pump Piston and Stem (Complete)
	5	**P-18215**	Spring—Pump Duration
	6	**P-18144**	Check Valve—Pump Inlet
	7	**P-21197**	Power By Pass Jet No 54 **(NOT VAR)**
	8	**P-6855**	Gasket—Pump By Pass Jet
	9	**P-21074**	Vacuum Power Piston
	10	**P-17402**	Idle Needle Valve
	11	**P-15481**	Spring—Idle Needle Valve
	12	**P-17152**	Metering Jet **093"** **(VAR)**
	13	**P-18226**	Main Disch Jet No 28 36 **(NOT VAR.)**
	14	**P-21663**	Float with Lever
	15	**P-10666**	Gasket—Float N V Seat and Adj Metering Needle
	17	***P-21654**	Gasket—Main Body
	18	**P-19424**	Idle Tube No 70 **(NOT VAR)**
	21	**P-8838**	Lockwasher—Main Body Attach Screw
	22	**P-18772**	Lead Ball—3/16"
	23	**P-18125**	Screw—Fulcrum—Float Lever
	24	**P-16960**	Spring—Pump Piston Leather Expansion
	27	***P-19339**	Screw—Main Body Attach
	30	**P-20217**	Throttle Stem
	31	**P-6454**	Throttle Valve
	32	**P-16717**	Screw—Throttle Valve Attach
	34	**P-6184**	Plug—Check Valve
	40	**P-4522**	Screw—Choke Valve Attach
	41	**P-21662**	Choke Valve
	42	**P-18266**	Choke Stem and Lever
	44	**P-21718**	Main Body **1-5/32"** Venturi **No. 70** High Speed Bleeder **(VAR.)**
	45	**P-22379**	Throttle Body—**No 56-58** Idle Holes, **No. 50** Vac Spark Hole **(VAR)**
	46	***P-20628**	Pump Lever
	47	**P-19165**	Pump Rod
	51	***P-20230**	Pump Link
	52	***P-19374**	Cotter Pin—Pump Link
	53	**P-1791**	Lockwasher—Pump Lever Attach Nut
	54	**P-2290**	Nut—Pump Lever Attach
	55	**P-17020**	Nozzle—Pump Disch **No. 70** **(VAR)**
	56	**P-18135**	Nut—Pump Rod—Adj
	57	**P-4**	Cotter Pin—Pump Rod—Adj Nut
	58	**P-5845**	Throttle Lever
		P-3199	Clamp Screw
	59	**P-13245**	Throttle Stop
		P-23474	Throttle Stop Screw
		P-15301	Spring—Throttle Stop Screw
	60	**P-14084**	Throttle Loose Lever Wire Connector and Screw
		P-9270	Wire Conn Screw
	61	**P-16487**	Stop—Throttle Loose Lever
		P-16486	Stop
		P-9025	Stop Clamp Screw
		P-4517	Stop Clamp Screw Nut
	62	**P-18931**	Main Metering Adj Needle
	63	**P-3292**	Plug—1/8" Pipe (Throttle Body)
	64	**P-7098**	Plug—Vacuum Suction Channel
	65	**P-17449**	Washer—Choke Stem
	66	**P-22637**	Assy —Tube Holder
		P-17051	Tube Holder
		P-11561	Tube Holder Clamp
		P-12868	Tube Holder Clamp Screw
		P-19328	Wire Connector
		P-284	Wire Connector Screw
	67	**P-17059**	Screw—Choke Lever Fulcrum
	68	**P-17058**	Bushing—Choke Lever Fulcrum Screw
	69	**P-17068**	Spring—Choke Valve Return
	70	**P-17093**	Screw—Tube Holder Attach
	71	**P-17132**	Spring—Choke Lever Return
	72	**P-17053**	Choke Lever
		P-12867	Wire Connector Screw
	73	**P-21067**	Float Chamber Cover
		P-17828	Vent Cap
		P-9802	Vent Cap Attach Rivet
	74	**P-21068**	Gasket—Float Chamber Cover
	75	**P-2266**	Screw—Float Chamber Cover Attach
	76	**P-12167**	Lockwasher—Float Chamber Cover Attach Screw
	77	**P-15477**	Idle Air Bleed **No. 53** **(VAR.)**
	78	**P-15459**	Plug—Idle Disch Drilling Hole
	79	**P-21053**	Plug—Pump Disch Channel
	80	**P-15458**	Plug—Idle Disch Holes
	81	**P-19983**	Lead Ball 1/8"
	82	***P-21655**	Insulator—Main Body
	83	**P-19448**	Gasket—Power By Pass Jet

PARTS FURNISHED WITH EACH CARBURETOR—SENT SEPARATE

Bin Location	Key No	Part No	Part Name
	84	**P-16318**	Union
	85	**P-22394**	Copper Tube

***NOTE—When servicing or ordering parts for carburetors with code No. 1-61 the following parts exceptions are necessary:**

Use **P-21164** Main Body Gasket in place of **P-21654**
Use **P-17000** Main Body Attach Screw in place of **P-19339**
Use **P-18331** Pump Lever in place of **P-20628**
Use **P-18141** Pump Link in place of **P-20203**
Use **P-18114** Cotter Pin in place of **P-19374**
Omit **P-21655** Main Body Insulator

BENDIX PRODUCTS DIVISION

SOUTH BEND **OF BENDIX AVIATION CORPORATION** **INDIANA**

Printed in U S A

STROMBERG EXV-3 CARBURETOR

STROMBERG NO. A-18343 (CODE NO. 1-60A)

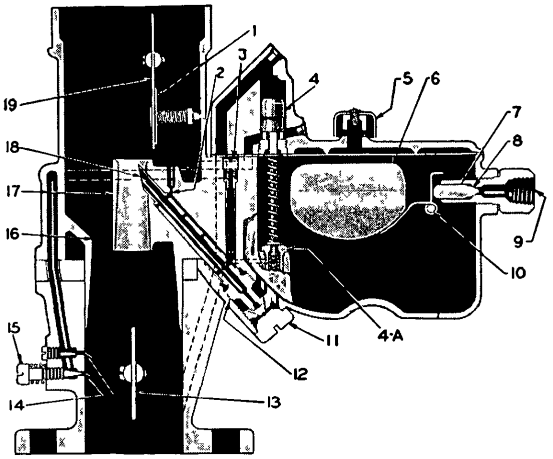
SIZE 1-1/2″ D. D. S.A.E. 2-15/16″ FLANGE CENTERS

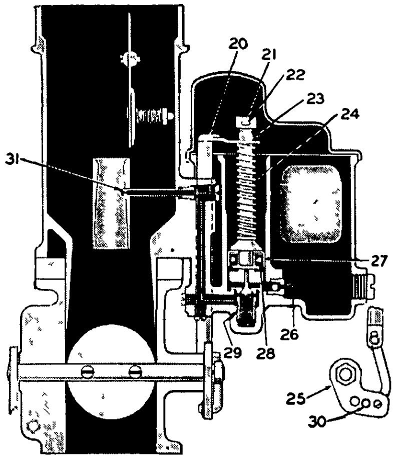
REPLACE WITH BXUV-3 A-19103

STANDARD
EXV-3
(Without Fast Idle)

PARTS ILLUSTRATED

1 Poppet Valve
2. High Speed Bleeder
3 Idle Tube
4. Vacuum Power Piston
4a Power By-Pass Jet
5. Float Chamber Vent
6. Float
7. Float Needle Valve
8. Float Needle Valve Seat
9. Gasoline Inlet
10. Float Fulcrum Pin
11. Main Discharge Jet Plug
12. Main Metering Jet
13 Throttle Valve
14. Idle Discharge Holes
15. Idle Needle Valve
16. Primary Venturi
17. Auxiliary Venturi
18. Main Discharge Jet
19. Choke Valve
20. Pump Rod
21. Pump Adjustment Nut
22. Cotter Pin
23. Piston Connecting Rod
24. Pump Duration Spring
25. Pump Lever





26 Pump Inlet Check Valve
27 Pump Piston
28 Pump Piston Expan Spring
29. Accel Pump By-Pass Jet
30. Pump Lever Link
31 Pump Discharge Nozzle

Note—Specifications below are for latest production; previous major changes listed on parts page.

FUEL LEVEL—Measure **5/8″** below top surface of float chamber (without gasket) at 3 lbs. pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level).

MAIN METERING SYSTEM—Venturi **1-3/16″**; Main Discharge Jet **No. 28** P-21326 (**Tool T-24967**); High Speed Bleeder **No. 65** in body. Main Metering Jet **.093″** P-17152 (**Tool T-23844**); Use P-18931 Adjustment Needle with P-17152. Main metering system controls the flow of fuel up to approximately 65 to 70 M.P.H.

POWER SYSTEM—Power By-Pass Jet **No. 54** P-21197; Power jet to come into operation at **4″** to **6″** of manifold vacuum, which is approximately 65 to 70 M.P.H. (**Tool T-24733**) used to remove vacuum power piston.

ACCELERATION—Pump Discharge Nozzle **No. 64** P-17020; Pump By-Pass Jet **4 No. 56** P-21076; pump rod link set in maximum setting. (**Tool T-24972**). Pump action takes place during acceleration period only.

IDLE SYSTEM—Idle Discharge holes **Nos. 56-58.** With throttle valve fully closed and **No. 58** drill in idle hole, edge of valve is located **.012″** + — **.004″** from **No. 58** drill; Idle Air Bleed **No. 54** P-15477; Idle Tube **No. 70** P-19424. Adjustment: Adjust to smooth running, OUT to make richer and IN to make leaner; throttle at 7 to 8 M.P.H.

VACUUM SPARK CONTROL—With throttle fully closed and **No. 50** drill in spark hole, edge of valve is located **Flush** from **No. 50** drill.

FLANGE GASKET—P-4753.

SPECIAL TOOLS REQUIRED—T-24733 Float. Adj. and power piston wrench T-24967 Main Discharge Jet Remover; T-23844 Main Metering Jet Wrench; T-24970 By-Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burrette Gauge; T-24968 Handle.

MOTOR TUNE-UP DATA

SPARK PLUG—
Clean and adjust at regular intervals.

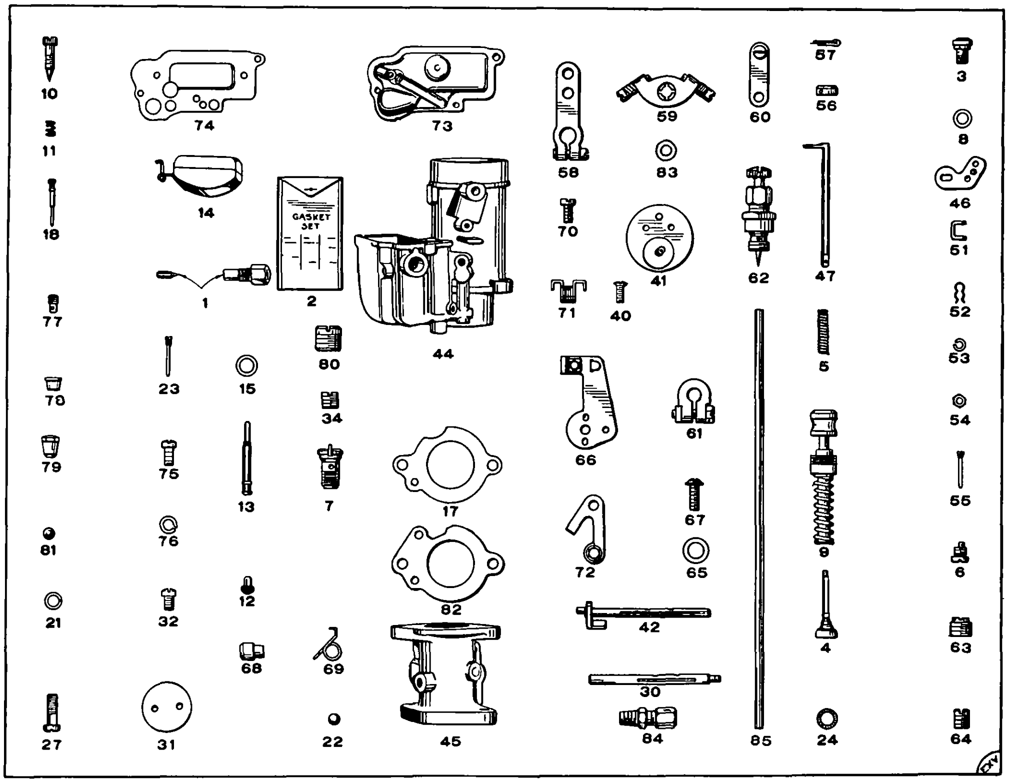
DISTRIBUTOR—Set breaker gap. Replace points if necessary.

IGNITION TIMING—Use timing light.

VALVES—Intake: Exhaust: Adjust with engine hot.

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No	Part No	Part Name	
	1	**P-20887**	Float Needle Valve and Seat 101″	**(NOT VAR)**
	2	**J-4544-G**	Complete Gasket Set	
	3	**P-21076**	Pump By Pass Jet No 56	**(NOT VAR)**
	4	**P-19167**	Pump Piston and Stem (Complete)	
	5	**P-18215**	Spring—Pump Duration	
	6	**P-18144**	Pump Inlet Check Valve	
	7	**P-21197**	Power By Pass Jet No 54	**(NOT VAR)**
	8	**P-6855**	Gasket—Pump By Pass Jet	
	9	**P-21074**	Vacuum Power Piston	
	10	**P-17402**	Idle Needle Valve	
	11	**P-15481**	Spring—Idle Needle Valve	
	12	**P-17152**	Metering Jet .093′	**(VAR)**
	13	**P-21326**	Main Disch Jet No 28	**(NOT VAR)**
	14	**P-21663**	Float with Lever	
	15	**P-10666**	Gasket—Float Needle Valve Seat and Metering Jet Adj Needle	
	17	***P-21064**	Gasket—Main Body	
	18	**P-19424**	Idle Tube and Holder	
	21	**P-8838**	Lockwasher—Main Body Attach Screw	
	22	**P-18772**	Lead Ball 3/16′	
	23	**P-18125**	Screw—Fulcrum—Float Lever	
	24	**P-16960**	Spring—Pump Piston Leather Fxpansion	
	27	***P-19339**	Screw—Main Body Attach	
	30	**P-20442**	Throttle Stem	
	31	**P-5436**	Throttle Valve (20°)	**(VAR)**
	32	**P-16716**	Screw—Throttle Valve	
	34	**P-6184**	Plug—Check Valve	
	40	**P-4522**	Screw—Choke Valve Attach	
	41	**P-20664**	Choke Valve	
	42	**P-18266**	Choke Stem and Lever	
	44	**P-22397**	Main Body—**1-3/16′** Venturi **No 65** High Speed Bleeder	**(VAR)**
	45	**P-22378**	Throttle Body **No 56-58** Idle Disch Holes **No 50** Spark Control Hole	**(VAR)**
	46	***P-20628**	Pump Lever	
	47	**P-19165**	Pump Rod	
	51	***P-20203**	Pump Link	
	52	***P-19374**	Cotter Pin—Pump Link	
	53	**P-1791**	Lockwasher—Pump Lever Attach Nut	
	54	**P-2290**	Nut—Pump Lever Attach	
	55	**P-17020**	Nozzle—Pump Disch **No 64**	**(VAR)**
	56	**P-18135**	Nut—Pump Rod Adj	
	57	**P-4**	Cotter Pin— Pump Rod Adj Nut	
	58	**P-5856**	Throttle Lever	
		P-3199	Screw—Clamp	
	59	**P-14481**	Throttle Stop	
		P-23474	Screw—Throttle Stop	
		P-15301	Spring—Throttle Stop Screw	
	60	**P-14677**	Throttle Loose Lever Wire Connector and Screw	
		P-9647	Wire Conn Screw	
	61	**P-17287**	Throttle Loose Lever Stop	
		P-17315	Stop	
		P-18769	Stop Clamp Screw	
		P-18299	Stop Clamp Screw Nut	
	62	**P-18931**	Main Metering Adj Needle	
	63	**P-3292**	Plug—1/8′ Pipe (Throttle Body)	
	64	**P-7098**	Plug—Vacuum Suction Channel	
	65	**P-17449**	Washer—Choke Stem	
	66	**P-22637**	Assy —Tube Holder	
		P-17051	Tube Holder	
		P-11561	Tube Holder Clamp	
		P-12868	Tube Holder Clamp Screw	
		P-19328	Wire Connector	
		P-284	Wire Connector Screw	
	67	**P-17059**	Screw—Choke Lever Fulcrum	
	68	**P-17058**	Bushing—Choke Lever Fulcrum Screw	
	69	**P-17068**	Spring—Choke Valve Return	
	70	**P-17093**	Screw—Tube Holder Attach	
	71	**P-17132**	Spring—Choke Lever Return	
	72	**P-17053**	Choke Lever	
		P-12867	Screw—Choke Wire Clamp	
	73	**P-21067**	Float Chamber Cover	
		P-17828	Vent Cap	
		P-9802	Vent Cap—Attach Rivet	
	74	**P-21068**	Gasket—Float Chamber Cover	
	75	**P-2266**	Screw—Float Chamber Cover Attach	
	76	**P-12167**	Lockwasher—Float Chamber Cover Attach Screw	
	77	**P-15477**	Idle Air Bleeder **No 54**	**(VAR)**
	78	**P-15459**	Plug—Idle Disch Drilling Hole	
	79	**P-21053**	Plug—Pump Disch Channel	
	80	**P-6387**	Plug—Idle Disch Holes	
	81	**P-19983**	Lead Ball—1/8′	
	82	***P-21065**	Insulator—Main Body	
	83	**P-19448**	Gasket—Power By Pass Jet	

PARTS FURNISHED WITH EACH CARBURETOR—SENT SEPARATE

Key No	Part No	Part Name
84	**P-16318**	Union
85	**P-22394**	Copper Tube

***NOTE—When servicing or ordering parts for carburetor with code No 1-60 the following parts exceptions are necessary**

Use **P-22484** Main Body Gasket in place of **P-21064**
Use **P-17000** Main Body Attach Screw in place of **P-19339**
Use **P-18141** Pump Link in place of **P-20203**
Use **P-18114** Cotter Pin in place of **P-19374**
Use **P-18331** Pump Lever in place of **P-20628**
Omit **P-21065** Main Body Insulator

BENDIX PRODUCTS DIVISION
SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

Printed in U S A

STROMBERG EXV-25 CARBURETOR

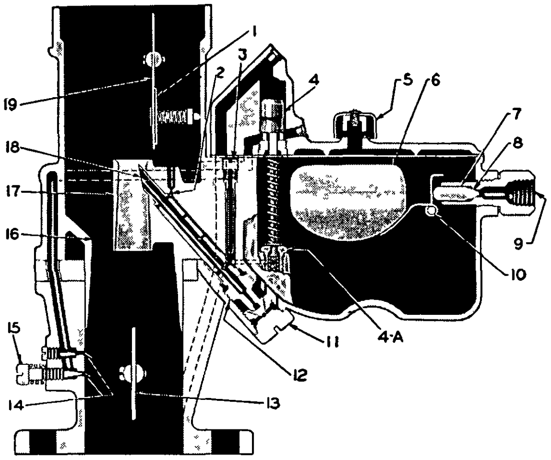
STANDARD
EXV-25
(New Style)
With
(Dome High Speed Bleeder)

STROMBERG NO. A-18572 (CODE NO. 1-64A)

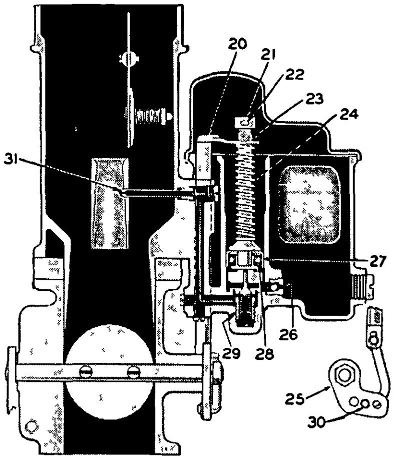
SIZE: 1-1/4″ D. D. S.A.E. 2-11/16″ FLANGE CENTER **REPLACE WITH BXOV-25 A-19112**

PARTS ILLUSTRATED

1. Poppet Valve
2. High Speed Bleeder
3. Idle Tube
4. Vacuum Power Piston
4a. Power By-Pass Jet
5. Float Chamber Vent
6 Float
7. Float Needle Valve
8. Float Needle Valve Seat
9. Gasoline Inlet
0. Float Fulcrum Pin
11. Main Discharge Jet Plug
12. Main Metering Jet
13. Throttle Valve
14. Idle Discharge Holes
15. Idle Needle Valve
16 Primary Venturi
17. Auxiliary Venturi
18. Main Discharge Jet
19. Choke Valve
20. Pump Rod
21. Pump Adjustment Nut
22 Cotter Pin
23. Piston Connecting Rod
24. Pump Duration Spring
25. Pump Lever



26 Pump Inlet Check Valve
27. Pump Piston
28. Pump Piston Expan Spring
29. Accel. Pump By-Pass Jet



30 Pump Lever Link
31. Pump Discharge Nozzle

Note—Specifications below are for latest production; previous major changes listed on parts page.

FUEL LEVEL—Measure **5/8″** below top surface of float chamber (without gasket) at 3 lbs. pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level).

MAIN METERING SYSTEM—Venturi **1-5/32″**; Main Discharge Jet **No. 28-32** P-23880 (**Tool T-24967**); High Speed Bleeder **No. 70** P-22764. Main Metering Jet **.060″** P-17004 (**Tool T-23844**); P-23232 **.060″** Adjustable Metering Jet. Main metering system controls the flow of fuel up to approximately 65 to 70 M.P.H.

POWER SYSTEM—Power By-Pass Jet **No. 54** P-21197; Power jet to come into operation at **4″** to **6″** of manifold vacuum, which is approximately 65 to 70 M.P.H. (**Tool T-24733**) used to remove vacuum power piston.

ACCELERATION—Pump Discharge Nozzle **No. 70** P-17020; Pump By-Pass Jet **4 No. 56** P-21076; Pump capacity **11** to **15** c.c. per 10 fast strokes, and **15** to **19** c.c. per 10 slow strokes with pump rod link set in middle setting. (**Tool T-24972**) Pump action takes place during acceleration period only.

IDLE SYSTEM—Idle Discharge holes **Nos. 56-58.** With throttle valve fully closed and **No. 58** drill in idle hole, edge of valve is located **.018″ + — .004″** from **No. 58** drill; Idle Air Bleed **No. 50** P-15477; Idle Tube **No. 70** P-19424. Adjustment: Adjust to smooth running, OUT to make richer and IN to make leaner; throttle at 7 to 8 M.P.H.

THERMOSTAT SETTING—Set thermostat **12** graduation rich from (0 mark).

VACUUM CONTROL SPARK—With throttle fully closed and **No. 50** drill in spark hole, edge of valve is located **Flush** from **No. 50** drill. Drill **1 No. 60** hole at random below throttle valve when fully closed.

FLANGE GASKET—P-4572.

SPECIAL TOOLS REQUIRED—T-24733 Float. Adj. and power piston wrench T-24967 Main Discharge Jet Remover; T-23844 Main Metering Jet Wrench; T-24970 By-Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burrette Gauge; T-24968 Handle.

MOTOR TUNE-UP DATA

SPARK PLUG—
Clean and adjust at regular intervals.

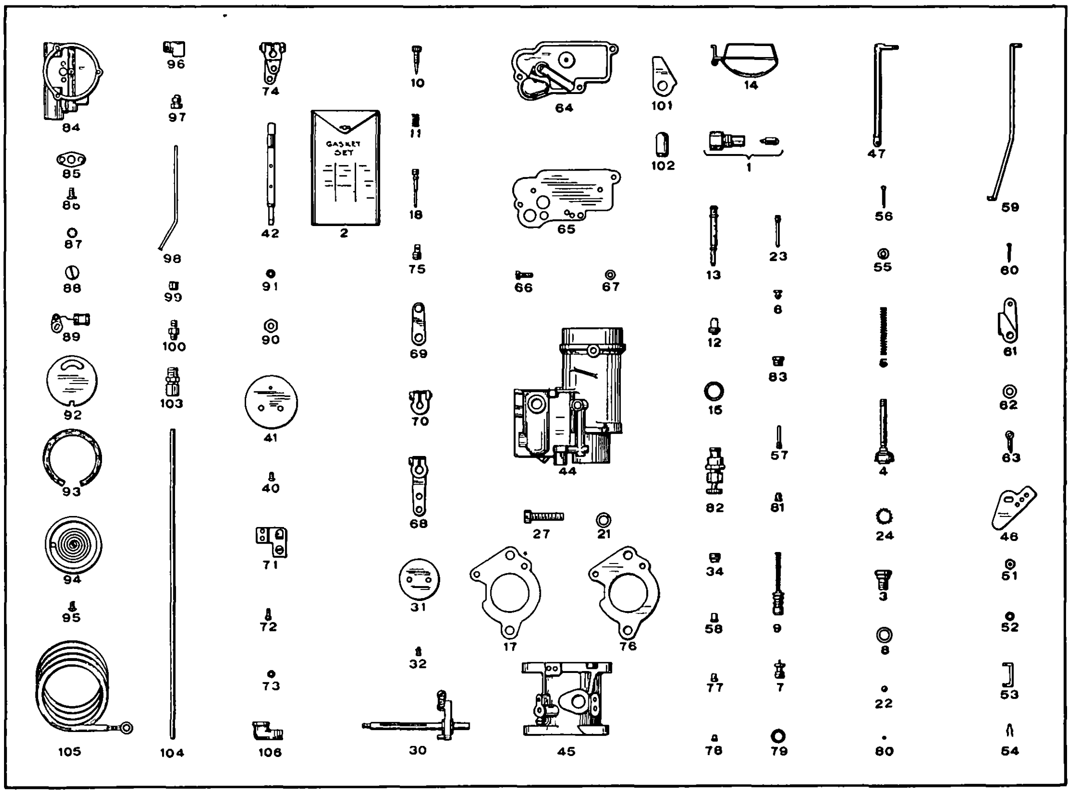
DISTRIBUTOR—Set breaker gap. Replace points if necessary.

IGNITION TIMING—Use timing light.

VALVES—Intake: Exhaust: Adjust with engin hot.

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No	Part No	Part Name	
	1	**P-20774**	Float Needle Valve and Seat 086″	**(NOT VAR)**
	2	**J-5329-G**	Complete Gasket Set	
	3	**P-21076**	Pump By Pass Jet No 56	**(NOT VAR)**
	4	**P-19167**	Pump Piston and Link (Complete)	
	5	**P-20666**	Spring—Pump Duration	
	6	**P-18144**	Pump Inlet Check Valve	
	7	**P-21197**	Power By Pass Jet No 54	**(NOT VAR)**
	8	**P-6855**	Gasket—By Pass Jet—Pump	
	9	**P-21074**	Vacuum Power Piston	
	10	**P-17402**	Idle Needle Valve	
	11	**P-15481**	Spring—Idle Needle Valve	
	12	**P-17004**	Metering Jet **060″**	**(VAR)**
	13	**P-23880**	Main Disch Jet No 28 32	**(NOT VAR)**
	14	**P-21663**	Float with Lever	
	15	**P-10666**	Gasket— Float N V Seat and Adj Metering Jet	
	17	**P-21654**	Gasket—Main Body	
	18	**P-19424**	Idle Tube No 70	**(NOT VAR)**
	21	**P-8838**	Lockwasher—Main Body Attach Screw	
	22	**P-18772**	Lead Ball—3/ 6″	
	23	**P-18125**	Screw—Float Fulcrum	
	24	**P-16960**	Spring—Pump Piston Leather Expansion	
	27	**P-23422**	Screw—Main Body Attach	
	30	**P-23168**	Throttle Stop and Stem	
		P-15456	Screw—Throttle Stop	
		P-15831	Spring—Throttle Stop Screw	
	31	**P-6454**	Throttle Valve (20°)	**(VAR)**
	32	**P-16717**	Screw—Throttle Valve Attach	
	34	**P-6184**	Plug—Check Valve Channel	
	40	**P-22573**	Screw—Choke Valve Attach	
	41	**P-23140**	Choke Valve	
	42	**P-23082**	Choke Stem	
	44	**P-23887-T**	Main Body—**1-5/32″** Venturi **No 70** High Speed Bleeder	**(VAR)**
	45	**P-23144**	Throttle Body **No 56-58** Idle Disch Holes **No 50** and **No 60** Spark Holes	**(VAR)**
		P-23620	Pin—Fast Idle Lever Fulcrum	
	46	**P-23666**	Pump Lever	
	47	**P-19165**	Pump Rod	
	51	**P-2290**	Nut—Pump Lever Attach	
	52	**P-1791**	Lockwasher—Pump Lever Attach Nut	
	53	**P-20203**	Link—Pump Lever	
	54	**P-19374**	Cotter Pin—Pump Link	
	55	**P-18135**	Nut—Pump Rod	
	56	**P-4**	Cotter Pin—Pump Rod Nut and Thermo Attach	
	57	**P-17020**	Nozzle—Pump Disch **No 70**	**(VAR)**
	58	**P-21053**	Plug—Pump Disch Channel	
	59	**P-23623**	Rod—Fast Idle	
	60	**112-S-22**	Cotter Pin—Fast Idle Rod	
	61	**P-23621**	Lever—Fast Idle	
	62	**P-20355**	Washer—Fast Idle Lever	
	63	**P-7170**	Cotter Pin—Fast Idle Lever	
	64	**P-21067**	Cover—Float	
		P-17828	Float Vent Cap	
		P-9802	Float Vent Cap Attach Rivet	
	65	**P-21068**	Gasket—Float Cover	
	66	**P-2266**	Screw—Float Cover Attach	
	67	**P-12167**	Lockwasher—Float Cover Attach Screw	

Bin Location	Key No	Part No	Part Name	
	68	**P-23215**	Throttle Lever	
		P-23216	Lever	
		P-3199	Lever Clamp Screw	
	69	**P-15424**	Throttle Loose Lever	
		P-9270	Wire Clamp Screw	
	70	**P-16487**	Throttle Loose Lever Stop	
		P-16486	Stop	
		P-18769	Stop Clamp Screw	
		P-18299	Stop Clamp Screw Nut	
	71	**P-23209**	Throttle Tube Holder (Assy)	
		P-23210	Holder	
		P-11561	Holder Clamp	
		P-12868	Holder Clamp Screw	
		P-8806	Holder Clamp Screw Nut	
	72	**P-15259**	Screw—Throttle Tube Holder Attach	
	73	**P-1693**	Lockwasher—Throttle Tube Holder Att Screw	
	74	**P-22722**	Choke Lever	
		P-22726	Lever	
		P-18300	Lever Clamp Screw	
		P-18299	Lever Clamp Screw Nut	
	75	**P-15477**	Idle Air Bleeder **No 50**	**(VAR)**
	76	**P-21655**	Insulator—Main Body	
	77	**P-15459**	Plug—Idle Discharge Drilling Hole	
	78	**P-15458**	Plug—Idle Discharge Hole	
	79	**P-19448**	Gasket—Power By Pass Jet	
	80	**P-19983**	Lead Ball—1/8″	
	81	**P-7098**	Plug—Vacuum Channel	
	82	**P-23232**	Adjustable Metering Jet **060″**	**(VAR)**
	83	**P-3292**	Plug—Spark and Vac Channel	
	84	**P-23084**	Thermostat Housing	
	85	**P-23053**	Gasket—Thermostat Housing Boss	
	86	**P-23122**	Screw—Thermostat Housing Attach	
	87	**P-15346**	Lockwasher—Thermostat Housing Attach Screw	
	88	**P-11348**	Plug—Vacuum Piston Channel	
	89	**P-23064**	Vacuum Piston Link and Lever	
	90	**P-16571**	Nut—Vac Piston Link and Lever Attach	
	91	**P-15875**	Lockwasher—Vac Piston Link and Lever Att Nut	
	92	**P-23051**	Plate—Electric Unit Baffle	
	93	**P-23052**	Insulator—Electric Unit	
	95	**P-23432**	Assy —Thermostat and Electric Unit	
		P-21507	Thermostat	
		P-23124	Electric Unit	
	95	**P-21596**	Screw—Thermostat and Electric Unit Attach	
	96	**P-23142**	Nut—Elbow Vac	
	97	**P-23141**	Nipple—Elbow Vac Tube	
	98	**P-23077**	Tube—Vacuum	
	99	**P-23072**	Nut—Vacuum Tube	
	100	**P-23071**	Nipple—Vacuum Tube	
	101	**P-23622**	Cam—Fast Idle	
	102	**P-22764**	Bleeder—High Speed **No 70**	**(VAR.)**

EXTRA EQUIPMENT FURNISHED SEPARATE WITH EACH CARBURETOR

Bin Location	Key No	Part No	Part Name
	103	**P-16318**	Compression Union
	104	**P-22394**	Tubing—Copper
	105	**P-21987**	Auto Choke Wire
	106	**P-2714**	Street Elbow

BENDIX PRODUCTS DIVISION
SOUTH BEND **OF BENDIX AVIATION CORPORATION** **INDIANA**

Printed in U S A

STROMBERG EXV-25 CARBURETOR

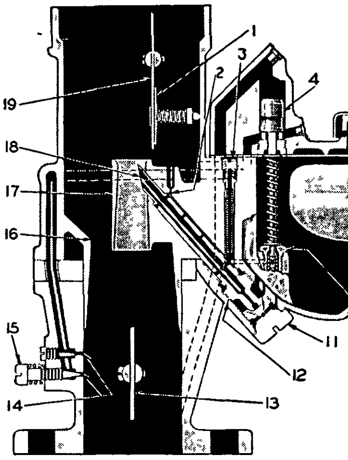
STROMBERG NO. A-18872 (CODE NO. 1-64)

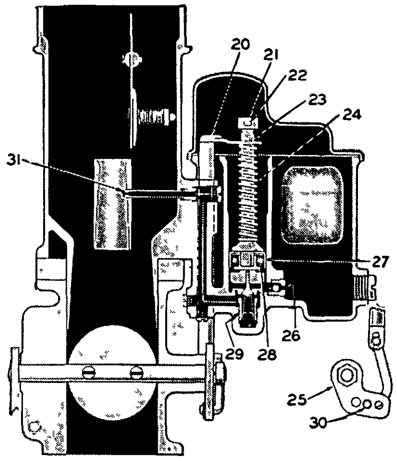
SIZE: 1-1/4″ D. D. S.A.E. 2-11/16″ FLANGE CENTER **REPLACE WITH BXOV-25 A-19112**

STANDARD
EXV-25
(With Dome High Speed Bleeder)

PARTS ILLUSTRATED

1. Poppet Valve
2. High Speed Bleeder
3. Idle Tube
4. Vacuum Power Piston
4a. Power By-Pass Jet
5. Float Chamber Vent
6. Float
7 Float Needle Valve
8. Float Needle Valve Seat
9. Gasoline Inlet
10 Float Fulcrum Pin
11. Main Discharge Jet Plug
12. Main Metering Jet
13 Throttle Valve
14. Idle Discharge Holes
15. Idle Needle Valve
16. Primary Venturi
17. Auxiliary Venturi
18. Main Discharge Jet
19. Choke Valve
20. Pump Rod
21. Pump Adjustment Nut
22. Cotter Pin
23. Piston Connecting Rod
24. Pump Duration Spring
25. Pump Lever





26 Pump Inlet Check Valve
27. Pump Piston
28 Pump Piston Expan Spring
29. Accel Pump By-Pass Jet
30 Pump Lever Link
31 Pump Discharge Nozzle

Note—Specifications below are for latest production; previous major changes listed on parts page.

FUEL LEVEL—Measure **5/8″** below top surface of float chamber (without gasket) at 3 lbs. pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level).

MAIN METERING SYSTEM—Venturi **1-5/32″**; Main Discharge Jet **No. 28-36** P-18226 (**Tool T-24967**); High Speed Bleeder **No. 70** in body. Main Metering Jet **.058″** P-17004 (**Tool T-23844**); P-23232 **.058″** Adjustable Metering Jet. Main metering system controls the flow of fuel up to approximately 65 to 70 M.P.H.

POWER SYSTEM—Power By-Pass Jet **No. 56** P-21657; Power jet to come into operation at **4″** to **6″** of manifold vacuum, which is approximately 65 to 70 M.P.H. (**Tool T-24733**) used to remove vacuum power piston.

ACCELERATION—Pump Discharge Nozzles **No. 70** P-17020; Pump By-Pass Jet **4 No. 56** P-21076; Pump capacity **11** to **15** c.c. per 10 fast strokes, and **15** to **19** c.c. per 10 slow strokes with pump rod link set in middle setting. (**Tool T-24972**) Pump action takes place during acceleration period only.

IDLE SYSTEM—Idle Discharge holes **Nos. 56-58.** With throttle valve fully closed and **No. 58** drill in idle hole, edge of valve is located **.018″** + — **.004″** from **No. 58** drill; Idle Air Bleed **No. 50** P-15477; Idle Tube **No. 70** P-19424. Adjustment: Adjust to smooth running, OUT to make richer and IN to make leaner; throttle at 7 to 8 M.P.H.

THERMOSTAT SETTING—Set thermostat **12** graduations rich from (0 mark).

VACUUM SPARK CONTROL—With throttle fully closed and **No. 50** drill in spark hole, edge of valve is located **Flush** from **No. 50** drill.

FLANGE GASKET—P-4752.

SPECIAL TOOLS REQUIRED—T-24733 Float. Adj. and power piston wrench T-24967 Main Discharge Jet Remover; T-23844 Main Metering Jet Wrench; T-24970 By-Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burrette Gauge; T-24968 Handle.

MOTOR TUNE-UP DATA

SPARK PLUG—
Clean and adjust at regular intervals.

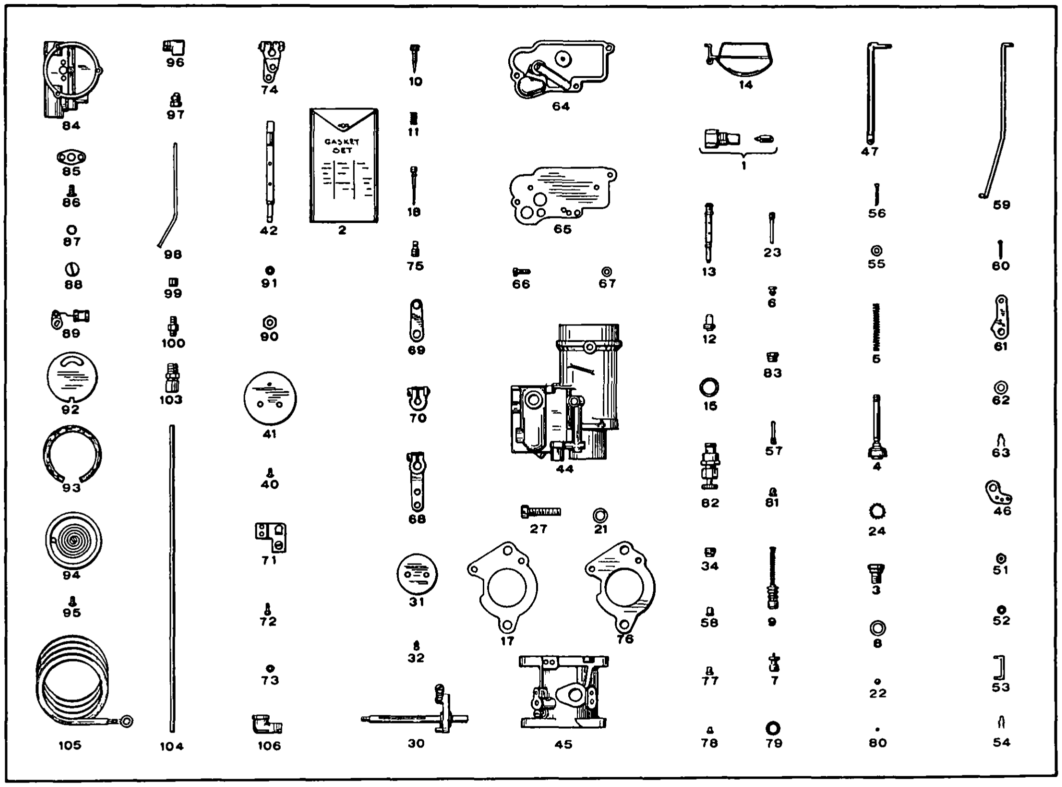
DISTRIBUTOR—Set breaker gap. Replace points if necessary.

IGNITION TIMING—Use timing light.

VALVES—Intake: Exhaust: Adjust with engine hot.

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No	Part No.	Part Name	
	1	**P-20774**	Float Needle Valve and Seat 086″	**(NOT VAR)**
	2	**J-5329-G**	Complete Gasket Set	
	3	**P-21076**	Pump By Pass Jet No 56	**(NOT VAR)**
	4	**P-19167**	Pump Piston and Link (Complete)	
	5	**P-20666**	Spring—Pump Duration	
	6	**P-18144**	Pump Inlet Check Valve	
	7	**P-21657**	Power By Pass Jet No 56	**(NOT VAR)**
	8	**P-6855**	Gasket—Pump By Pass Jet	
	9	**P-21074**	Vacuum Power Piston	
	10	**P-17402**	Idle Needle Valve	
	11	**P-15481**	Spring—Idle Needle Valve	
	12	**P-17004**	Metering Jet 058″	**(VAR)**
	13	**P-18226**	Main Disch Jet No 28 36	**(NOT VAR.)**
	14	**P-21663**	Float with Lever	
	15	**P-10666**	Gasket—Float N V Seat and Adj Met Jet	
	17	**P-21654**	Gasket—Main Body	
	18	**P-19424**	Idle Tube No 70	**(NOT VAR)**
	21	**P-8838**	Lockwasher—Main Body Attach Screw	
	22	**P-18772**	Lead Ball—3/16″	
	23	**P-18125**	Screw—Float Fulcrum	
	24	**P-16960**	Spring—Pump Piston Leather Expansion	
	27	**P-23422**	Screw—Main Body Attach	
	30	**P-23166**	Throttle Stop and Stem	
		P-15456	Screw—Throttle Stop	
		P-15831	Spring—Throttle Stop Screw	
	31	**P-6454**	Throttle Valve (20°)	**(VAR)**
	32	**P-16717**	Screw—Throttle Valve Attach	
	34	**P-6184**	Plug—Check Valve Channel	
	40	**P-22573**	Screw—Choke Valve Attach	
	41	**P-23140**	Choke Valve	
	42	**P-23082**	Choke Stem	
	44	**P-23078**	Main Body **1-5/32″** Venturi **No. 70** High Speed Bleed	**(VAR)**
	45	**P-23079**	Throttle Body **No. 56-58** Idle Discharge Hole **No 50** Spark Hole	**(VAR)**
		P-19370	Pin—Fast Idle Lever Fulcrum	
	46	**P-20628**	Pump Lever	
	47	**P-19165**	Pump Rod	
	51	**P-2290**	Nut—Pump Lever Attach	
	52	**P-1791**	Lockwasher—Pump Lever Attach Nut	
	53	**P-20203**	Link—Pump Lever	
	54	**P-19374**	Cotter Pin—Pump Link	
	55	**P-18135**	Nut—Pump Rod	
	56	**P-4**	Cotter Pin—Pump Rod Nut and Thermo Attach	
	57	**P-17020**	Nozzle—Pump Disch **No 70**	**(VAR)**
	58	**P-21053**	Plug—Pump Channel	
	59	**P-22724**	Rod—Fast Idle	
	60	**112-S-22**	Cotter Pin—Fast Idle Rod	
	61	**P-22723**	Lever—Fast Idle	
	62	**P-12400**	Washer—Fast Idle Lever	
	63	**P-21338**	Cotter Pin—Fast Idle Lever (Slotted Fulcrum Pin)	
		P-7170	Cotter Pin—Use with Fulcrum Pin with Hole	
	64	**P-21067**	Cover—Float	
		P-17828	Float Vent Cap	
		P-9802	Float Vent Cap Attach Rivet	
	65	**P-21068**	Gasket—Float Cover	
	66	**P-2266**	Screw—Float Cover Attach	
	67	**P-12167**	Lockwasher—Float Cover Attach Screw	
	68	**P-23215**	Throttle Lever	
		P-23216	Lever	
		P-3199	Lever Clamp Screw	
	69	**P-15424**	Throttle Loose Lever	
		P-9270	Wire Connecting Screw	
	70	**P-16487**	Throttle Loose Lever Stop	
		P-16486	Stop	
		P-18769	Stop Clamp Screw	
		P-18299	Stop Clamp Screw Nut	
	71	**P-23209**	Throttle Tube Holder (Assy)	
		P-23210	Holder	
		P-11561	Holder Clamp	
		P-12868	Holder Clamp Screw	
		P-8806	Holder Clamp Screw Nut	
	72	**P-15259**	Screw—Throttle Tube Holder Attach	
	73	**P-1693**	Lockwasher—Throttle Tube Holder Attach Screw	
	74	**P-22722**	Choke Lever	
		P-22726	Lever	
		P-18300	Lever Clamp Screw	
		P-18299	Lever Clamp Screw Nut	
	75	**P-15477**	Idle Air Bleeder **No 50**	**(VAR.)**
	76	**P-21655**	Insulator—Main Body	
	77	**P-15459**	Plug—Idle Disch Drilling Hole	
	78	**P-15458**	Plug—Idle Disch Holes	
	79	**P-19448**	Gasket—Power By Pass Jet	
	80	**P 19983**	Lead Balls—1/8″	
	81	**P-7098**	Plug—Vac Channel	
	82	**P-23232**	Adjustable Metering Jet 058″	**(VAR)**
	83	**P-3292**	Plug—Spark Vac Channel	
	84	**P-23084**	Thermostat Housing	
	85	**P-23053**	Gasket—Thermostat Housing Boss	
	86	**P-23122**	Screw—Thermostat Housing Attach	
	87	**P-15346**	Lockwasher—Thermostat Housing Attach Screw	
	88	**P-11348**	Plug—Vac Piston Channel	
	89	**P-23064**	Vac Piston Link and Lever	
	90	**P-16571**	Nut—Vac Piston Link and Lever Attach	
	91	**P-15875**	Lockwasher—Vac Piston Link and Lever Att Nut	
	92	**P-23051**	Plate—Electric Unit Baffle	
	93	**P-23052**	Insulator—Electric Unit	
	94	**P-23432**	Assy —Thermostat and Electric Unit	
		P-21507	Thermostat	
		P-23124	Electric Unit	
	95	**P-21596**	Screw—Thermostat and Electric Unit Attach	
	96	**P-23142**	Nut—Elbow—Vac	
	97	**P-23141**	Nipple—Elbow—Vac Tube	
	98	**P-23077**	Tube—Vacuum	
	99	**P-23072**	Nut—Vacuum Tube	
	100	**P-23071**	Nipple—Vacuum Tube	

EXTRA PARTS FURNISHED WITH EACH CARBURETOR

Key No	Part No	Part Name
103	**P-16318**	Compression Union
104	**P-22394**	Tubing—Copper
105	**P-21987**	Auto Choke Wire
106	**P-2714**	Street Elbow

BENDIX PRODUCTS DIVISION
SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

Printed in U S A.

STROMBERG EXV-35 CARBURETOR

STANDARD
EXV-35
(New Style)
(With Dome High Speed Bleeder)

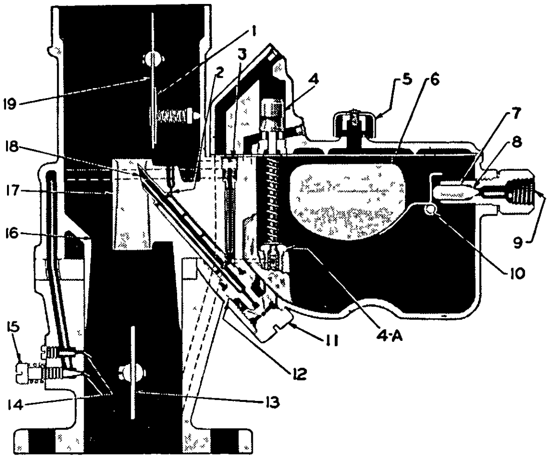
STROMBERG NO. A-18573 (CODE NO. 1-65A)

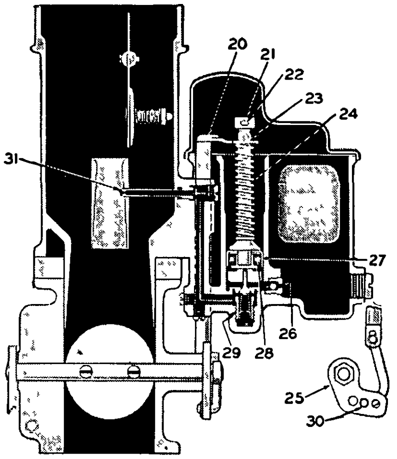
SIZE: 1-1/2" D. D. S.A.E. 2-15/16" FLANGE CENTERS

REPLACE WITH BXUV-35 A-19113

PARTS ILLUSTRATED

1. Poppet Valve
2. High Speed Bleeder
3. Idle Tube
4 Vacuum Power Piston
4a. Power By-Pass Jet
5. Float Chamber Vent
6 Float
7. Float Needle Valve
8. Float Needle Valve Seat
9 Gasoline Inlet
10. Float Fulcrum Pin
11. Main Discharge Jet Plug
12. Main Metering Jet
13. Throttle Valve
14 Idle Discharge Holes
15 Idle Needle Valve
16. Primary Venturi
17. Auxiliary Venturi
18. Main Discharge Jet
19. Choke Valve
20 Pump Rod
21. Pump Adjustment Nut
22. Cotter Pin
23 Piston Connecting Rod
24. Pump Duration Spring
25 Pump Lever
26 Pump Inlet Check Valve
27 Pump Piston
28. Pump Piston Expan Spring
29 Accel Pump By-Pass Jet
30 Pump Lever Link
31 Pump Discharge Nozzle





Note—Specifications below are for latest production; previous major changes listed on parts page.

FUEL LEVEL—Measure **5/8"** below top surface of float chamber (without gasket) at 3 lbs. pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level).

MAIN METERING SYSTEM—Venturi **1-3/16"**; Main Discharge Jet **No. 28** P-23971 (**Tool T-24967**); High Speed Bleeder **No. 70** P-22764. Main Metering Jet **.062"** P-17004 (**Tool T-23844**); P-23232 **.062"** Adjustable Metering Jet. Main metering system controls the flow of fuel up to approximately 65 to 70 M.P.H.

POWER SYSTEM—Power By-Pass Jet **No. 52** P-23667; Power jet to come into operation at **4"** to **6"** of manifold vacuum, which is approximately 65 to 70 M.P.H. (**Tool T-24733**) used to remove vacuum power piston.

ACCELERATION—Pump Discharge Nozzle **No. 64** P-17020; Pump By-Pass Jet **4 No. 56** P-21076; Pump capacity **11** to **15** c.c. per 10 fast strokes, and **15** to **19** c.c. per 10 slow strokes with pump rod link set in middle setting. (**Tool T-24972**) Pump action takes place during acceleration period only.

IDLE SYSTEM—Idle Discharge holes **Nos. 56-58.** With throttle valve fully closed and **No. 58** drill in idle hole, edge of valve is located **.012" + — .004"** from **No. 58** drill; Idle Air Bleed **No. 54** P-15477; Idle Tube **No. 70** P-19424. Adjustment: Adjust to smooth running, OUT to make richer and IN to make leaner; throttle at 7 to 8 M.P.H.

THERMOSTAT SETTING—Set thermostat **12** graduation rich from (0 mark).

VACUUM SPARK CONTROL—With throttle fully closed and **No. 50** drill in spark hole, edge of valve is located **Flush** from **No. 50** drill. Drill **1 No. 60** hole at random below throttle valve when full closed.

FLANGE GASKET—P-4753.

SPECIAL TOOLS REQUIRED—T-24733 Float. Adj. and power piston wrench T-24967 Main Discharge Jet Remover; T-23844 Main Metering Jet Wrench; T-24970 By-Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burrette Gauge; T-24968 Handle.

MOTOR TUNE-UP DATA

SPARK PLUG—
Clean and adjust at regular intervals.

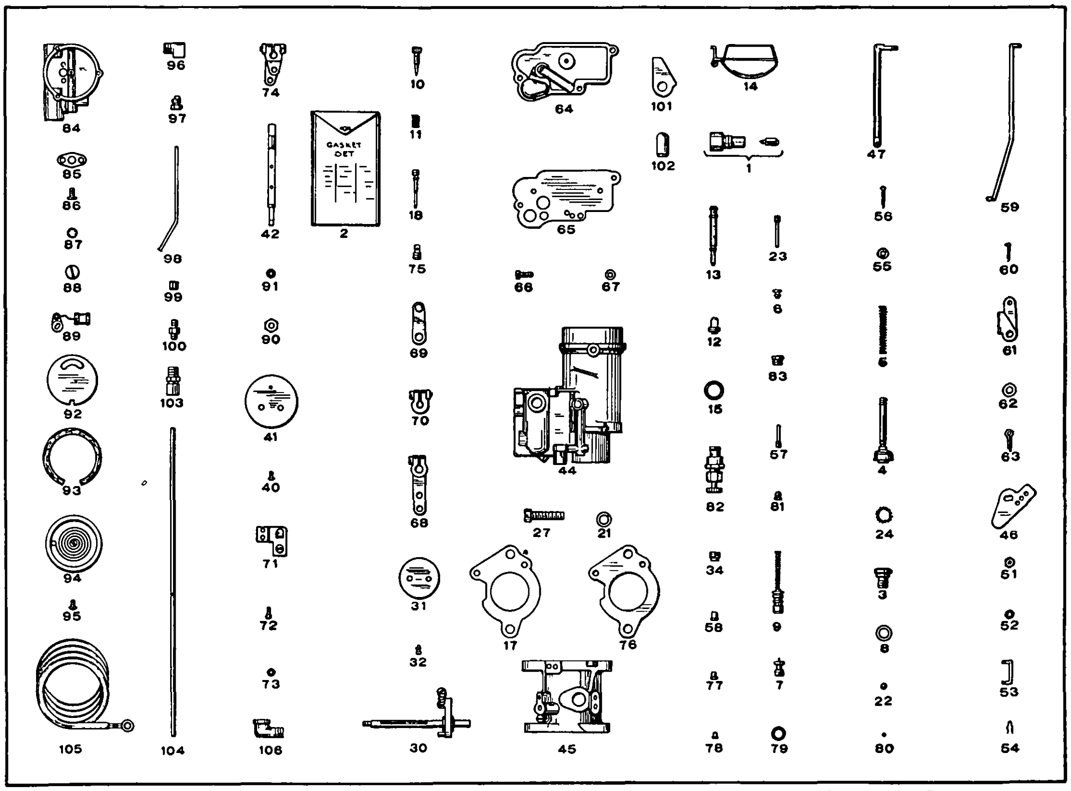
DISTRIBUTOR—Set breaker gap. Replace points if necessary.

IGNITION TIMING—Use timing light.

VALVES—Intake: Exhaust: Adjust with engine hot.

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No	Part No.	Part Name	
	1	P-20887	Float Needle Valve and Seat 101″	(NOT VAR)
	2	J-4544-G	Complete Gasket Set	
	3	P-21076	Pump By Pass Jet No 56	(NOT VAR.)
	4	P-19167	Pump Piston and Link (Complete)	
	5	P-18215	Spring—Pump Duration	
	6	P-18144	Pump Inlet Check Valve	
	7	P-23667	Power By Pass Jet No 52	(NOT VAR.)
	8	P-6855	Gasket—By Pass Jet	
	9	P-21074	Vacuum Power Piston	
	10	P-17402	Idle Needle Valve	
	11	P-15481	Spring—Idle Needle Valve	
	12	P-17004	Metering Jet .062″	(VAR)
	13	P-23971	Main Discharge Jet No 28	(NOT VAR.)
	14	P-21663	Float with Lever	
	15	P-10666	Gasket—Float N V Seat and Adj Met Jet	
	17	P-21064	Gasket—Main Body	
	18	P-19424	Idle Tube No 70	(NOT VAR)
	21	P-8838	Lockwasher—Main Body Attach Screw	
	22	P-18772	Lead Ball—3/16″	
	23	P-18125	Screw—Fulcrum—Float Lever	
	24	P-16960	Spring—Pump Piston Leather Expansion	
	27	P-23422	Screw—Main Body Attach	
	30	P-23207	Throttle Lever and Stop	
		P-15456	Screw—Throttle Stop	
		P-15831	Spring—Throttle Stop Screw	
	31	P-5436	Throttle Valve (20°)	(VAR.)
	32	P-16716	Screw—Throttle Valve Attach	
	34	P-6184	Plug—Check Valve Channel	
	40	P-22573	Screw—Check Valve Attach	
	41	P-23140	Choke Valve	
	42	P-23082	Choke Stem	
	44	P-23889-T	Main Body—**1-3/16″** Venturi, **No. 70** High Speed Bleed	(VAR)
	45	P-24145	Throttle Body **No. 56-58** Idle Disch Hole **No. 50** Spark Hole	(VAR.)
		P-23620	Pin—Fast Idle Lever Fulcrum	
	46	P-23666	Pump Lever	
	47	P-19165	Pump Rod	
	51	P-2290	Nut—Pump Lever Attach	
	52	P-1791	Lockwasher—Pump Lever Attach Nut	
	53	P-20203	Pump Link	
	54	P-19374	Cotter Pin—Pump Link	
	55	P-18135	Nut—Pump Rod	
	56	P-4	Cotter Pin—Pump Rod Nut	
	57	P-17020	Nozzle—Pump Disch **No. 64**	(VAR)
	58	P-21053	Plug—Pump Disch Channel	
	59	P-22623	Rod—Fast Idle	
	60	112-S-22	Cotter Pin—Fast Idle Rod	
	61	P-23621	Lever—Fast Idle	
	62	P-20355	Washer—Fast Idle Lever	
	63	P-7170	Cotter Pin—Fast Idle Lever	
	64	P-21067	Cover—Float	
		P-17828	Float Vent Cap	
		P-9802	Float Vent Cap Attach Rivet	
	65	P-21068	Gasket—Float Cover	
	66	P-2266	Screw—Float Cover Attach	
	67	P-12167	Lockwasher—Float Cover Attach Screw	
	68	P-14727	Throttle Lever	
		P-14726	Lever	
		P-3199	Lever Clamp Screw	
	69	P-23217	Throttle Loose Lever	
		P-9270	Wire Clamp Screw	
	70	P-17287	Throttle Loose Lever Stop	
		P-17315	Stop	
		P-18769	Stop Clamp Screw	
		P-18299	Stop Clamp Screw Nut	
	71	P-23209	Throttle Tube Holder (Assy)	
		P-23210	Holder	
		P-11561	Holder Clamp	
		P-12868	Holder Clamp Screw	
		P-8806	Holder Clamp Screw Nut	
	72	P-15259	Screw—Throttle Tube Holder Attach	
	73	P-1693	Lockwasher—Throttle Tube Holder Attach Screw	
	74	P-22722	Choke Lever	
		P-22726	Lever	
		P-18300	Lever Clamp Screw	
		P-18299	Lever Clamp Screw Nut	
	75	P-15477	Bleeder—Idle Air **No. 54**	(VAR)
	76	P-21065	Insulator—Main Body	
	77	P-15459	Plug—Idle Disch Drilling Hole	
	78	P-6387	Plug—Idle Disch Holes	
	79	P-19448	Gasket—Power By Pass Jet	
	80	P-19983	Lead Ball—1/8″	
	81	P-7098	Plug—Vacuum Channel	
	82	P-23232	Adjustable Metering Jet .062″	(VAR)
	83	P-3292	Plug—Spark and Vac Channel	
	84	P-23084	Thermostat Housing	
	85	P-23053	Gasket—Thermostat Housing Boss	
	86	P-23122	Screw—Thermostat Housing Attach	
	87	P-15346	Lockwasher—Thermostat Housing Attach Screw	
	88	P-11348	Plug—Vac Piston Channel	
	89	P-23064	Vac Piston Link and Lever	
	90	P-16571	Nut—Vac Piston Link and Lever Attach	
	91	P-15875	Lockwasher—Vac Piston Link and Lever Att Nut	
	92	P-23051	Plate—Electric Unit Baffle	
	93	P-23052	Insulator—Electric Unit	
	94	P-23432	Assy —Thermostat and Electric Unit	
		P-21507	Thermostat	
		P-23124	Electric Unit	
	95	P-21596	Screw—Thermostat and Electric Unit Attach	
	96	P-23142	Nut—Elbow—Vac Line	
	97	P-23141	Nipple—Elbow Vac Tube	
	98	P-23077	Tube—Vacuum	
	99	P-23072	Nut—Vacuum Tube	
	100	P-23071	Nipple—Vacuum Tube	
	101	P-23622	Cam—Fast Idle	
	102	P-22764	Bleeder—High Speed **No. 70**	(VAR)

EXTRA EQUIPMENT FURNISHED SEPARATE WITH EACH CARBURETOR

Bin Location	Key No	Part No.	Part Name
	103	P-16318	Compression Union
	104	P-22394	Tubing—Copper
	105	P-21987	Auto Choke Wire
	106	P-2714	Street Elbow

BENDIX PRODUCTS DIVISION
SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA
Printed in U. S A

STROMBERG EXV-35 CARBURETOR

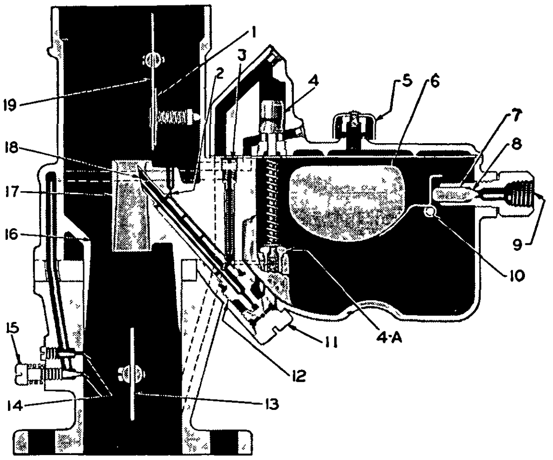
STROMBERG NO. A-18573 (CODE NO. 1-65)

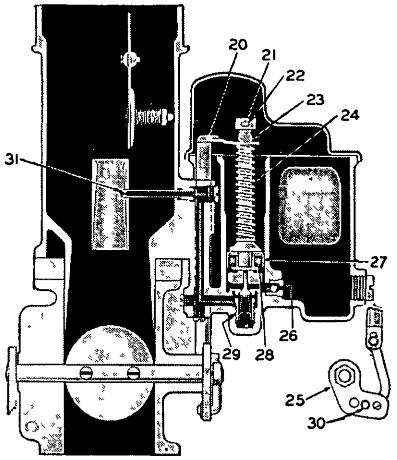
SIZE: 1-1/2″ D. D. S.A.E. 2-15/16″ FLANGE CENTERS **REPLACE WITH BXUV-35 A-19113**

STANDARD
EXV-35
(Without Dome High Speed Bleeder)

PARTS ILLUSTRATED

1. Poppet Valve
2. High Speed Bleeder
3. Idle Tube
4. Vacuum Power Piston
4a. Power By-Pass Jet
5. Float Chamber Vent
6. Float
7. Float Needle Valve
8. Float Needle Valve Seat
9. Gasoline Inlet
0. Float Fulcrum Pin
11. Main Discharge Jet Plug
12. Main Metering Jet
13. Throttle Valve
14. Idle Discharge Holes
15. Idle Needle Valve
16. Primary Venturi
17. Auxiliary Venturi
18. Main Discharge Jet
19. Choke Valve
20. Pump Rod
21. Pump Adjustment Nut
22. Cotter Pin
23. Piston Connecting Rod
24. Pump Duration Spring
25. Pump Lever





26. Pump Inlet Check Valve
27. Pump Piston
28. Pump Piston Expan Spring
29. Accel. Pump By-Pass Jet
30 Pump Lever Link
31. Pump Discharge Nozzle

Note—Specifications below are for latest production; previous major changes listed on parts page.

FUEL LEVEL—Measure **5/8″** below top surface of float chamber (without gasket) at 3 lbs. pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level).

MAIN METERING SYSTEM — Venturi **1-3/16″**; Main Discharge Jet **No. 28** P-23971 (**Tool T-24967**); High Speed Bleeder **No. 70** in body. Main Metering Jet **.060″**P-17004 (**Tool T-23844**); P-23232 **.060″** Adjustable Metering Jet. Main metering system controls the flow of fuel up to approximately 65 to 70 M.P.H.

POWER SYSTEM—Power By-Pass Jet **No. 56** P-21657; Power jet to come into operation at **4″** to **6″** of manifold vacuum, which is approximately 65 to 70 M.P.H. (**Tool T-24733**) used to remove vacuum power piston.

ACCELERATION—Pump Discharge Nozzle **No. 64** P-17020; Pump By-Pass Jet **4 No. 56** P-21076; Pump capacity **11** to **15** c.c. per 10 fast strokes, and **15** to **19** c.c. per 10 slow strokes with pump rod link set in middle setting. (**Tool T-24972**) Pump action takes place during acceleration period only.

IDLE SYSTEM—Idle Discharge holes **Nos. 56-58**. With throttle valve fully closed and **No. 58** drill in idle hole, edge of valve is located **.012″** + — **.004″** from **No. 58** drill; Idle Air Bleed **No. 54** P-15477; Idle Tube **No. 70** P-19424. Adjustment: Adjust to smooth running, OUT to make richer and IN to make leaner; throttle at 7 to 8 M.P.H.

THERMOSTAT SETTING—Set thermostat **12** graduations rich from (0 mark).

VACUUM SPARK CONTROL—With throttle fully closed and **No. 50** drill in spark hole, edge of valve is located **Flush** from **No. 50** drill.

FLANGE GASKET—P-4753.

SPECIAL TOOLS REQUIRED—T-24733 Float. Adj. and power piston wrench T-24967 Main Discharge Jet Remover; T-23844 Main Metering Jet Wrench; T-24970 By-Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burrette Gauge; T-24968 Handle.

MOTOR TUNE-UP DATA

SPARK PLUG—
Clean and adjust at regular intervals.

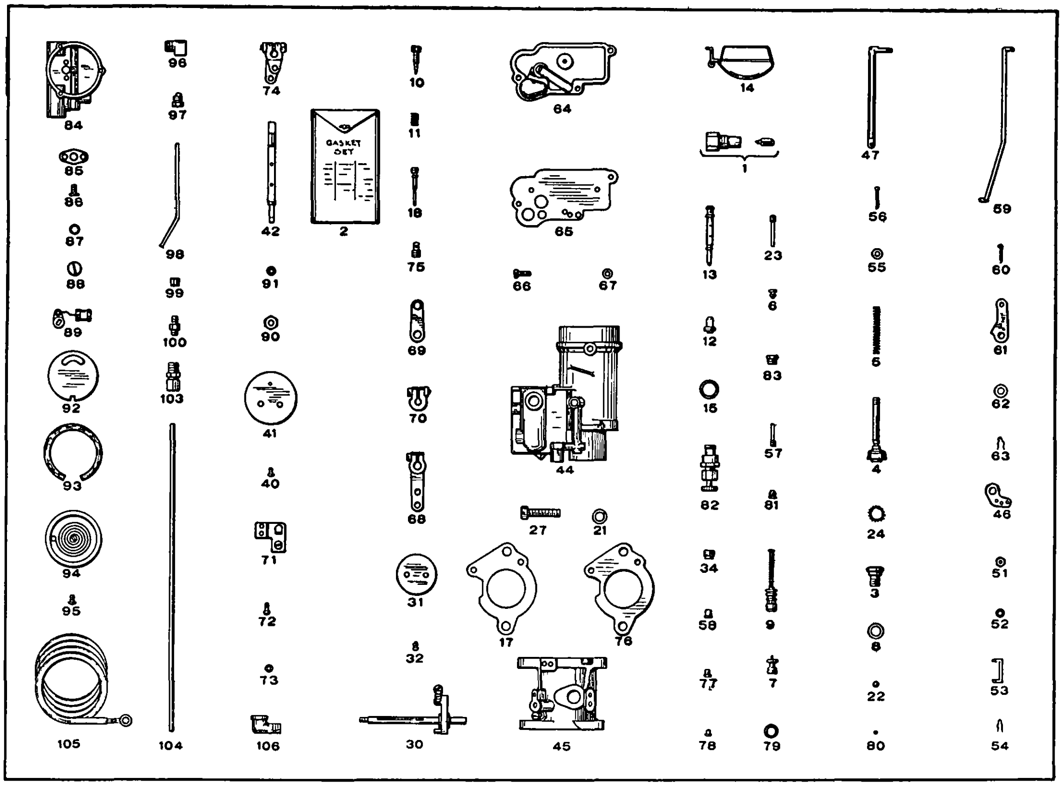
DISTRIBUTOR—Set breaker gap. Replace points if necessary.

IGNITION TIMING—Use timing light.

VALVES—Intake: Exhaust: Adjust with engine hot.

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No	Part No	Part Name	
	1	**P-20887**	Float Needle Valve and Seat 101"	**(NOT VAR)**
	2	**J-4544-G**	Complete Gasket Set	
	3	**P-21076**	Pump By Pass Jet No 56	**(NOT VAR)**
	4	**P-19167**	Pump Piston and Stem (Complete)	
	5	**P-18215**	Spring—Pump Duration	
	6	**P-18144**	Pump Inlet Check Valve	
	7	**P-21657**	Power By Pass Jet	
	8	**P-6855**	Gasket—Pump By Pass	
	9	**P-21074**	Vacuum Power Piston	
	10	**P-17402**	Idle Needle Valve	
	11	**P-15481**	Spring—Idle Needle Valve	
	12	**P-17004**	Metering Jet **060"**	**(VAR)**
	13	**P-21326**	Main Discharge Jet	
	14	**P-21663**	Float with Lever	
	15	**P-10666**	Gasket—Float N V Seat and Adj Met Jet	
	17	**P-21064**	Gasket—Main Body	
	18	**P-19424**	Idle Tube No 70	**(NOT VAR)**
	21	**P-8838**	Lockwasher—Main Body Attach Screw	
	22	**P-18772**	Lead Ball—3/16"	
	23	**P-18125**	Screw—Float Fulcrum	
	24	**P-16960**	Spring—Pump Piston Leather Expansion	
	27	**P-23422**	Screw—Main Body Attach	
	30	**P-23207**	Throttle Stem and Stop	
		P-15456	Screw—Idle Adj	
		P-15831	Spring—Idle Adj Screw	
	31	**P-5436**	Throttle Valve (20°)	**(VAR.)**
	32	**P-16716**	Screw—Throttle Valve Attach	
	34	**P-6184**	Plug—Check Valve Channel	
	40	**P-22573**	Screw—Choke Valve Attach	
	41	**P-23140**	Choke Valve	
	42	**P-23082**	Choke Stem	
	44	**P-23214**	Main Body—**1-3/16"** Venturi **No. 70** High Speed Bleed	**(VAR.)**
	45	**P-23208**	Throttle Body **No. 56-58** Idle Hole **No** 50 Spark Hole	**(VAR)**
		P-19370	Pin—Fast Idle Lever Fulcrum Pin	
	46	**P-20628**	Pump Lever	
	47	**P-19165**	Pump Rod	
	51	**P-2290**	Nut—Pump Lever Attach	
	52	**P-1791**	Lockwasher—Pump Lever Attach Nut	
	53	**P-20203**	Pump Link	
	54	**P-19374**	Cotter Pin—Pump Link	
	55	**P-18135**	Nut—Pump Rod	
	56	**P-4**	Cotter Pin—Pump Rod Nut and Therm Attach	
	57	**P-17020**	Nozzle—Pump Disch **No 64**	**(VAR)**
	58	**P-21053**	Plug—Pump Disch Channel	
	59	**P-22724**	Rod—Fast Idle	
	60	**112-S-22**	Cotter Pin—Fast Idle Rod	
	61	**P-22723**	Lever—Fast Idle	
	62	**P-12400**	Washer—Fast Idle Lever	
	63	**P-21338**	Cotter Pin—Fast Idle Lever (For Slotted Fulcrum Pin)	
		P-7170	Cotter Pin (Use with Drilled Fulcrum Pin)	
	64	**P-21067**	Cover—Float	
		P-17828	Float Vent Cap	
		P-9802	Float Vent Cap Attach Rivet	
	65	**P-21068**	Gasket—Float Cover	
	66	**P-2266**	Screw—Float Cover Attach	
	67	**P-12167**	Lockwasher—Float Cover Attach Screw	
	68	**P-14727**	Throttle Lever	
		P-14726	Lever	
		P-3199	Lever Clamp Screw	
	69	**P-23217**	Throttle Loose Lever	
		P-9270	Wire Connector Screw	
	70	**P-17287**	Throttle Loose Lever Stop	
		P-17315	Stop	
		P-18769	Stop Clamp Screw	
		P-18299	Stop Clamp Screw Nut	
	71	**P-23209**	Throttle Tube Holder (Assy)	
		P-23210	Holder	
		P-11561	Holder Clamp	
		P-12868	Holder Clamp Screw	
		P-8806	Holder Clamp Screw Nut	
	72	**P-15259**	Screw—Throttle Tube Holder Attach	
	73	**P-1693**	Lockwasher—Throttle Tube Holder Att Screw	
	74	**P-22722**	Choke Lever	
		P-22726	Lever	
		P-18300	Lever Clamp Screw	
		P-18299	Lever Clamp Screw Nut	
	75	**P-15477**	Idle Air Bleeder **No 54**	**(VAR)**
	76	**P-21065**	Insulator—Main Body	
	77	**P-15459**	Plug—Idle Disch Drilling Hole	
	78	**P-6387**	Plug—Idle Disch Holes	
	79	**P-19448**	Gasket—Power By Pass	
	80	**P-19983**	Lead Ball—1/8"	
	81	**P-7098**	Plug—Vacuum Channel	
	82	**P-23232**	Adjustable Metering Jet **060"**	**(VAR)**
	83	**P-3292**	Plug—Spark and Power Vac Channel	
	84	**P-23084**	Thermostat Housing	
	85	**P-23053**	Gasket—Thermostat Housing Boss	
	86	**P-23122**	Screw—Thermostat Housing Attach	
	87	**P-15346**	Lockwasher—Thermostat Housing Att Screw	
	88	**P-11348**	Plug—Vacuum Piston Channel	
	89	**P-23064**	Vacuum Piston Link and Lever	
	90	**P-16571**	Nut—Vac Piston Link and Lever Attach	
	91	**P-15875**	Lockwasher—Vac Piston Link and Lever Att Nut	
	92	**P-23051**	Plate—Electric Unit Baffle	
	93	**P-23052**	Insulator—Electric Unit	
	94	**P-23432**	Assy —Thermostat and Electric Unit	
		P-21507	Thermostat	
		P-23124	Electric Unit	
	95	**P-21596**	Screw—Thermostat and Electric Unit Attach	
	96	**P-23142**	Nut—Elbow Vacuum	
	97	**P-23141**	Nipple—Elbow—Vac Tube	
	98	**P-23077**	Tube—Vacuum	
	99	**P-23072**	Nut—Vacuum Tube	
	100	**P-23071**	Nipple—Vacuum Tube	
			EXTRA PARTS FURNISHED SEPARATE WITH EACH CARBURETOR	
	103	**P-16318**	Compression Union	
	104	**P-22394**	Tubing—Copper	
	105	**P-21987**	Automatic Choke Wire	
	106	**P-2714**	Street Elbow	

BENDIX PRODUCTS DIVISION

SOUTH BEND **OF BENDIX AVIATION CORPORATION** **INDIANA**

Printed in U S A

STROMBERG EXV-2 CARBURETOR

STROMBERG NO. A-18642 (CODE NO. 1-66A)

SIZE: 1-1/4″ D. D. S.A.E. 2-11/16″ FLANGE CENTER

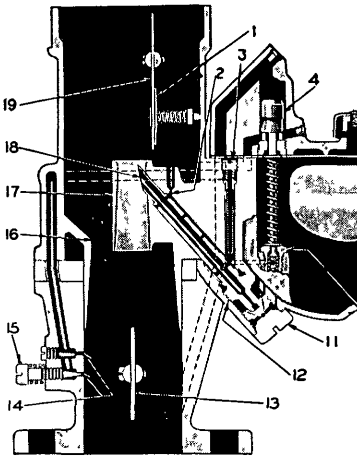
REPLACE WITH BXOV-2 A-19102

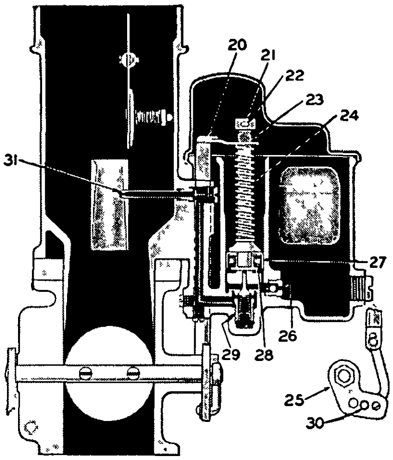
STANDARD
EXV-2

(New Style)
(With Dome High Speed Bleeder)

PARTS ILLUSTRATED

1. Poppet Valve
2. High Speed Bleeder
3. Idle Tube
4. Vacuum Power Piston
4a Power By-Pass Jet
5. Float Chamber Vent
6. Float
7. Float Needle Valve
8. Float Needle Valve Seat
9. Gasoline Inlet
0 Float Fulcrum Pin
11. Main Discharge Jet Plug
12. Main Metering Jet
13. Throttle Valve
14 Idle Discharge Holes
15. Idle Needle Valve
16 Primary Venturi
17. Auxiliary Venturi
18. Main Discharge Jet
19. Choke Valve
20. Pump Rod
21 Pump Adjustment Nut
22. Cotter Pin
23. Piston Connecting Rod
24 Pump Duration Spring
25. Pump Lever





26 Pump Inlet Check Valve
27 Pump Piston
28. Pump Piston Expan Spring
29. Accel Pump By-Pass Jet
30 Pump Lever Link
31 Pump Discharge Nozzle

Note—Specifications below are for latest production; previous major changes listed on parts page.

FUEL LEVEL—Measure **5/8″** below top surface of float chamber (without gasket) at 3 lbs. pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level).

MAIN METERING SYSTEM — Venturi **1-5/32″**; Main Discharge Jet **No. 28-32** P-23880 (**Tool T-24967**); High Speed Bleeder **No. 70** P-22764. Main Metering Jet **.060″** P-17004 (**Tool T-23844**); P-23232 **.060″** Adjustable Metering Jet. Main metering system controls the flow of fuel up to approximately 65 to 70 M.P.H.

POWER SYSTEM—Power By-Pass Jet **No. 54** P-21197; Power jet to come into operation at **4″** to **6″** of manifold vacuum, which is approximately 65 to 70 M.P.H. (**Tool T-24733**) used to remove vacuum power piston.

ACCELERATION—Pump Discharge Nozzle **No. 70** P-17020; Pump By-Pass Jet **4 No. 56** P-21076; Pump capacity **11** to **15** c.c. per 10 fast strokes, and **15** to **19** c.c. per 10 slow strokes with pump rod link set in middle setting. (**Tool T-24972**) Pump action takes place during acceleration period only.

IDLE SYSTEM—Idle Discharge holes **Nos. 56-58.** With throttle valve fully closed and **No. 58** drill idle hole, edge of valve is located **.018″ + — .004″** from **No. 58** drill; Idle Air Bleed **No. 50** P-15477; Idle Tube **No. 70** P-19424. Adjustment: Adjust to smooth running, OUT to make richer and IN to make leaner; throttle at 7 to 8 M.P.H.

VACUUM SPARK CONTROL—With throttle fully closed and **No. 50** drill in spark hole, edge of valve is located **Flush** from **No. 50** drill. Drill **1 No. 60** hole at random below throttle valve when fully closed.

FLANGE GASKET—P-4752.

SPECIAL TOOLS REQUIRED—T-24733 Float. Adj. and power piston wrench T-24967 Main Discharge Jet Remover; T-23844 Main Metering Jet Wrench; T-24970 By-Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burrette Gauge; T-24968 Handle.

MOTOR TUNE-UP DATA

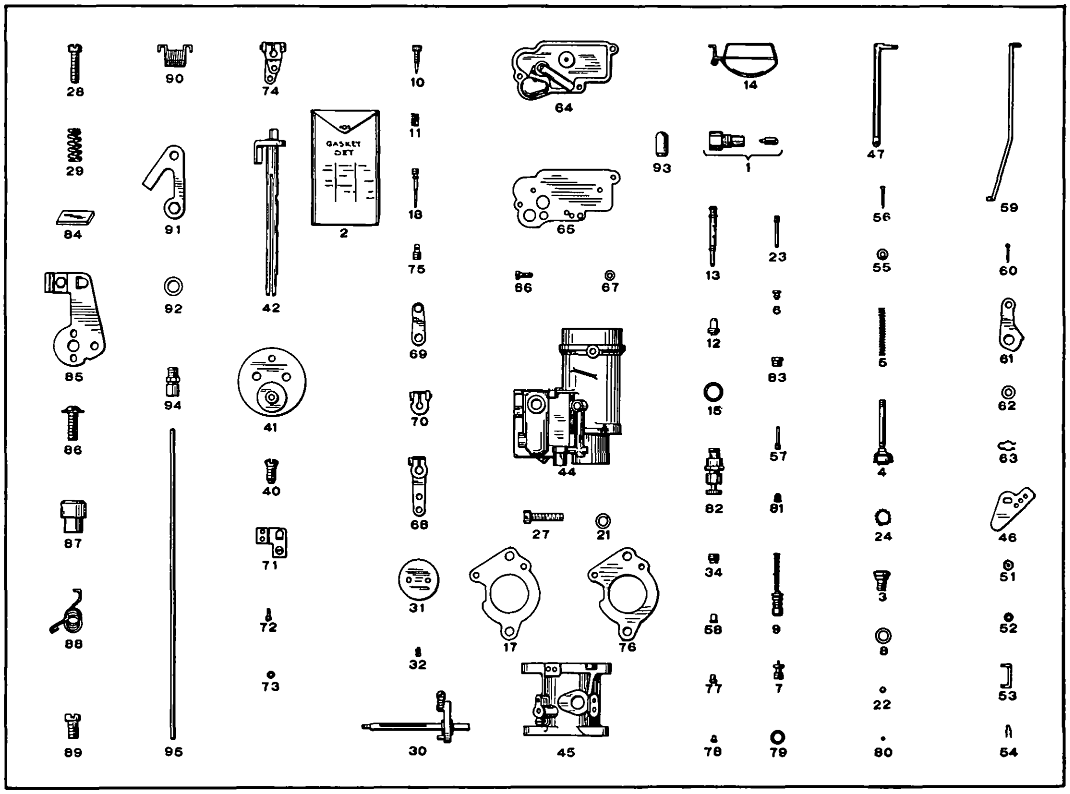
SPARK PLUG—
Clean and adjust at regular intervals.

DISTRIBUTOR—Set breaker gap. Replace points if necessary.

IGNITION TIMING—Use timing light.

VALVES—Intake: Exhaust: Adjust with engine hot.

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No	Part No	Part Name	
	1	P-20774	Float Needle Valve and Seat 086″	(NOT VAR)
	2	J-4608-G	Complete Gasket Set	
	3	P-21076	Pump By Pass Jet No 56	(NOT VAR)
	4	P-19167	Pump Piston and Stem (Complete)	
	5	P-18215	Spring—Pump Duration	
	6	P-18144	Pump Inlet Check Valve	
	7	P-21197	Power By Pass Jet No 54	(NOT VAR)
	8	P-6855	Gasket—Pump By Pass Jet	
	9	P-21074	Vacuum Power Piston	
	10	P-17402	Idle Needle Valve	
	11	P-15481	Spring—Idle Needle Valve	
	12	P-17004	Metering Jet 060′	(VAR)
	13	P-23880	Main Disch Jet No 28 32	(NOT VAR)
	14	P-21663	Float with Lever	
	15	P-10666	Gasket—Float N V Seat and Adj Met Jet	
	17	P-21654	Gasket—Main Body	
	18	P-19424	Idle Tube No 70	(NOT VAR)
	21	P-8838	Lockwasher—Main Body Attach Screw	
	22	P-18772	Lead Ball—3/16″	
	23	P-18125	Screw—Fulcrum—Float Lever	
	24	P-16960	Spring—Pump Piston Leather Expansion	
	27	P-23422	Screw—Main Body Attach	
	28	P-15456	Screw—Throttle Stop	
	29	P-15831	Spring—Throttle Stop Screw	
	30	P-23166	Throttle Stop and Stem (Includes No 28 and No 29)	
	31	P-6454	Throttle Valve (20°)	(VAR)
	32	P-16717	Screw—Throttle Valve Attach	
	34	P-6184	Plug—Check Valve	
	40	P-4522	Screw—Choke Valve Attach	
	41	P-21662	Choke Valve	
	42	P-21716	Choke Stem and Stop	
	44	P-23886	Main Body—**1-5/32″** Venturi **No 70** High Speed Bleeder	(VAR)
	45	P-23222	Throttle Body—**No 56-58** Idle Disch Hole **No 50** and **60** Spark Holes	(VAR)
		P-19370	Pin—Fast Idle Lever Fulcrum	
	46	P-23666	Pump Lever	
	47	P-19165	Pump Rod	
	51	P-2290	Nut—Pump Lever Attach	
	52	P-1791	Lockwasher—Pump Lever Attach Nut.	
	53	P-20203	Pump Link	
	54	P-19374	Cotter Pin—Pump Link	
	55	P-18135	Nut—Pump Rod Adj	
	56	P-4	Cotter Pin—Pump Rod Adj Nut	
	57	P-17020	Nozzle—Pump Disch **No. 70**	(VAR)
	58	P-21053	Plug—Pump Disch Channel	
	59	P-22724	Rod—Fast Idle	
	60	112-S-22	Cotter Pin—Fast Idle Rod	
	61	P-22723	Lever—Fast Idle	
	62	P-12400	Washer—Fast Idle Lever	
	63	P-21338	Cotter Pin—Fast Idle Lever Washer	
	64	P-21067	Float Chamber Cover	
		P-17828	Vent Cap	
		P-9802	Vent Cap Attach Rivet	
	65	P-21068	Gasket—Float Cover	
	66	P-2266	Screw—Float Chamber Cover Attach	
	67	P-12167	Lockwasher—Float Chamber Cover Attach Screw	
	68	P-23215	Throttle Lever	
		P-3199	Lever Clamp Screw	
	69	P-15424	Throttle Loose Lever	
		P-9270	Wire Connector Screw	
	70	P-16487	Throttle Loose Lever Stop	
		P-16486	Stop	
		P-9025	Stop Clamp Screw	
		P-4517	Stop Clamp Screw Nut	
	71	P-23209	Throttle Tube Holder	
		P-23210	Holder	
		P-11561	Holder Clamp	
		P-12868	Holder Clamp Screw	
		P-8806	Holder Clamp Screw Nut	
	72	P-15259	Screw—Throttle Tube Holder Attach	
	73	P-1693	Lockwasher—Throttle Tube Holder Attach Screw	
	74	P-22722	Choke Lever	
		P-22726	Lever	
		P-18300	Lever Clamp Screw	
		P-18299	Lever Clamp Screw Nut	
	75	P-15477	Idle Air Bleeder **No 50**	(VAR)
	76	P-21655	Insulator—Main Body	
	77	P-15459	Plug—Idle Disch Drilling Hole	
	78	P-15458	Plug—Idle Disch Holes	
	79	P-19448	Gasket—Power By Pass Jet	
	80	P-19983	Lead Ball—1/8″	
	81	P-7098	Plug—Vacuum Suction Channel	
	82	P-23232	Adjustable Metering Jet **060″**	(VAR)
	83	P-3292	Plug—1/8″ Pipe (Throttle Body)	
	84	P-21719	Block—Choke Stem	
	85	P-17067	Assy —Tube Holder	
		P-17051	Holder	
		P-11561	Clamp	
		P-12868	Screw	
		P-8806	Nut	
	86	P-17059	Screw—Choke Lever Fulcrum	
	87	P-17058	Bushing—Choke Lever Fulcrum	
	88	P-17068	Spring—Choke Valve Return	
	89	P-17093	Screw—Choke Tube Holder Attach	
	90	P-17132	Spring—Choke Lever Return	
	91	P-17053	Choke Lever	
		P-12867	Wire Connector Screw	
	92	P-4735	Washer—Choke Stem	
	93	P-22764	High Speed Bleeder **No 70**	(VAR.)

PARTS FURNISHED EXTRA WITH EACH CARBURETOR—SENT SEPARATE

Bin Location	Key No	Part No	Part Name
	94	P-16318	Union
	95	P-22394	Copper Tubing

BENDIX PRODUCTS DIVISION
SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

Printed in U S A

STROMBERG EXV-2 CARBURETOR

STANDARD
EXV-2
(Without Dome High Speed Bleeder)

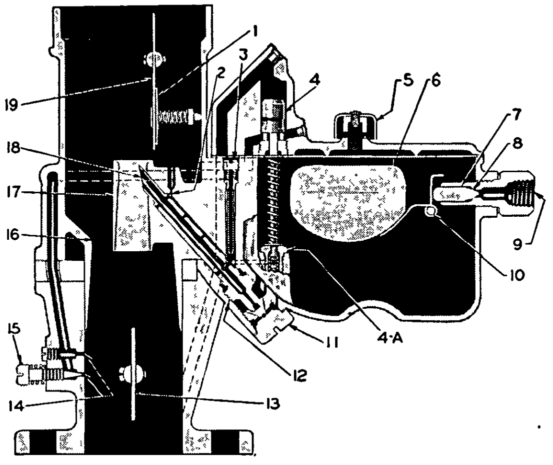
STROMBERG NO. A-18642 (CODE NO. 1-66)

SIZE: 1-1/4" D. D. S.A.E. 2-11/16" FLANGE CENTERS

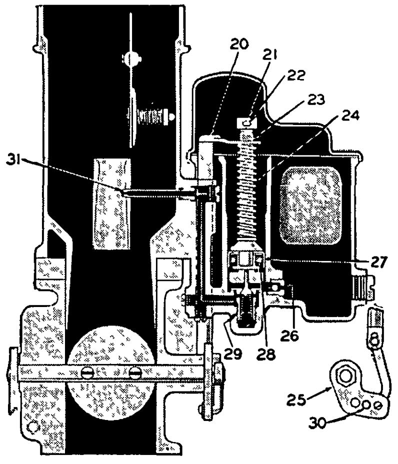
REPLACE WITH BXOV-2 A-19102

PARTS ILLUSTRATED

1. Poppet Valve
2. High Speed Bleeder
3. Idle Tube
4. Vacuum Power Piston
4a. Power By-Pass Jet
5. Float Chamber Vent
6. Float
7. Float Needle Valve
8. Float Needle Valve Seat
9. Gasoline Inlet
10. Float Fulcrum Pin
11. Main Discharge Jet Plug
12. Main Metering Jet
13. Throttle Valve
14. Idle Discharge Holes
15. Idle Needle Valve
16. Primary Venturi
17. Auxiliary Venturi
18. Main Discharge Jet
19. Choke Valve
20. Pump Rod
21. Pump Adjustment Nut
22. Cotter Pin
23. Piston Connecting Rod
24. Pump Duration Spring
25. Pump Lever



26. Pump Inlet Check Valve
27. Pump Piston
28. Pump Piston Expan Spring
29. Accel Pump By-Pass Jet



30. Pump Lever Link
31. Pump Discharge Nozzle

Note—Specifications below are for latest production; previous major changes listed on parts page.

FUEL LEVEL—Measure **5/8"** below top surface of float chamber (without gasket) at 3 lbs. pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level).

MAIN METERING SYSTEM—Venturi **1-5/32"**; Main Discharge Jet **No. 28-36** P-18226 (**Tool T-24967**); High Speed Bleeder **No. 70** in body. Main Metering Jet **.051"** P-17004 (**Tool T-23844**); P-23232 **.058"** Adjustable Metering Jet. Main metering system controls the flow of fuel up to approximately 65 to 70 M.P.H.

POWER SYSTEM—Power By-Pass Jet **No. 56** P-21657; Power jet to come into operation at **4"** to **6"** of manifold vacuum, which is approximately 65 to 70 M.P.H. (**Tool T-24733**) used to remove vacuum power piston.

ACCELERATION—Pump Discharge Nozzle **No. 70** P-17020; Pump By-Pass Jet **4 No. 56** P-21076; Pump capacity **11** to **15** c.c. per 10 fast strokes, and **15** to **19** c.c. per 10 slow strokes with pump rod link set set in middle setting. (**Tool T-24972**) Pump action takes place during acceleration period only.

IDLE SYSTEM—Idle Discharge holes **Nos. 56-58.** With throttle valve fully closed and **No. 58** drill in idle hole, edge of valve is located **.018" + — .004"** from **No. 58** drill; Idle Air Bleed **No. 50** P-15477; Idle Tube **No. 70** P-19424. Adjustment: Adjust to smooth running, OUT to make richer and IN to make leaner; throttle at 7 to 8 M.P.H.

VACUUM SPARK CONTROL—With throttle fully closed and **No. 50** drill in spark hole, edge of valve is located **Flush** from **No. 50** drill.

FLANGE GASKET—P-4752.

SPECIAL TOOLS REQUIRED—T-24733 Float. Adj. and power piston wrench T-24967 Main Discharge Jet Remover; T-23844 Main Metering Jet Wrench; T-24970 By-Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burrette Gauge; T-24968 Handle.

MOTOR TUNE-UP DATA

SPARK PLUG—
Clean and adjust at regular intervals.

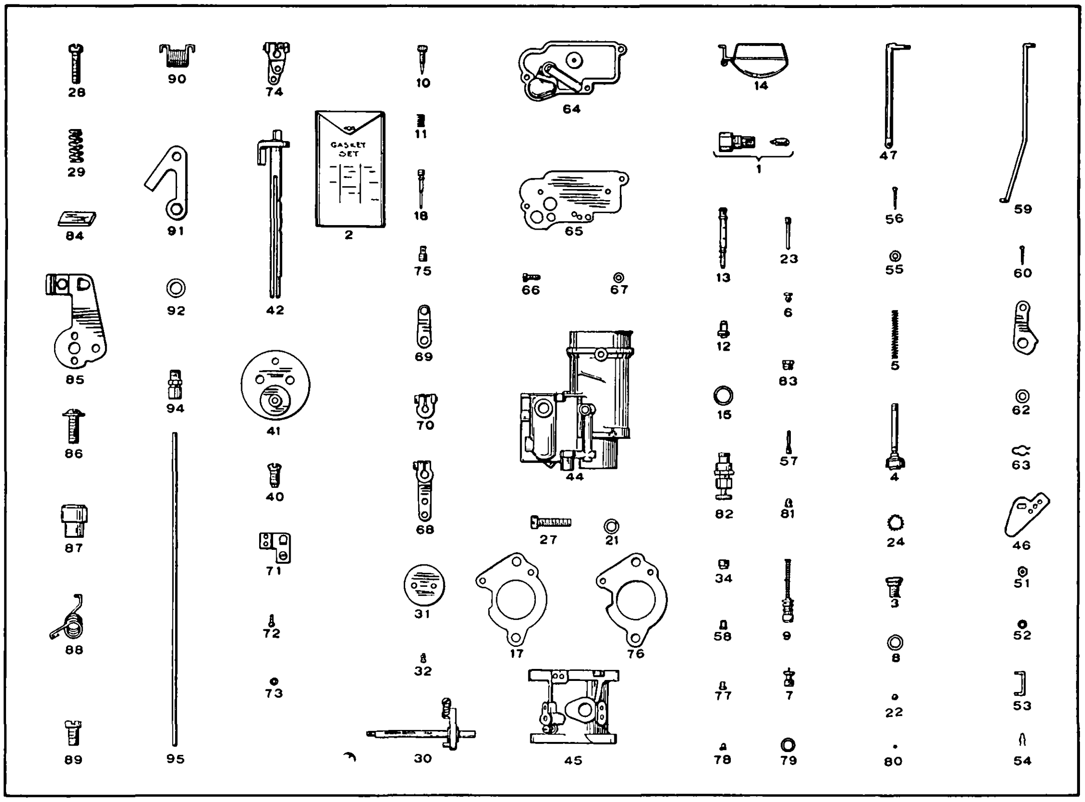
DISTRIBUTOR—Set breaker gap. Replace points if necessary.

IGNITION TIMING—Use timing light.

VALVES—Intake: Exhaust: Adjust with engine hot.

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No	Part No	Part Name	
	1	**P-20774**	Float Needle Valve and Seat 086"	(**NOT VAR**)
	2	**J-4608-G**	Complete Gasket Set	
	3	**P-21076**	Pump By Pass Jet No 56	(**NOT VAR**)
	4	**P-19167**	Pump Piston and Stem (Complete)	
	5	**P-18215**	Spring—Pump Duration	
	6	**P-18144**	Pump Inlet Check Valve	
	7	**P-21657**	Power By Pass Jet No 56	(**NOT VAR**)
	8	**P-6855**	Gasket—Pump By Pass Jet	
	9	**P-21074**	Vacuum Power Piston	
	10	**P-17402**	Idle Needle Valve	
	11	**P-15481**	Spring—Idle Needle Valve	
	12	**P-17004**	Metering Jet **058"**	(**VAR**)
	13	**P-18226**	Main Disch Jet No 28 36	(**NOT VAR**)
	14	**P-21663**	Float with Lever	
	15	**P-10666**	Gasket—Float N V Seat and Adj Met Jet	
	17	**P-21654**	Gasket—Main Body	
	18	**P-19424**	Idle Tube No 70	(**NOT VAR**)
	21	**P-8838**	Lockwasher—Main Body Attach Screw	
	22	**P-18772**	Lead Ball—3/16"	
	23	**P-18125**	Screw—Float Fulcrum	
	24	**P-16960**	Spring—Pump Piston Leather Expansion	
	27	**P-23422**	Screw—Main Body Attach	
	28	**P-15456**	Screw—Throttle Stop	
	29	**P-15831**	Spring—Throttle Stop Screw	
	30	**P-23166**	Throttle Stop and Stem (Includes No 28 and No 29)	
	31	**P-6454**	Throttle Valve (**20°**)	(**VAR**)
	32	**P-16717**	Screw—Throttle Valve Attach	
	34	**P-6184**	Plug—Check Valve	
	40	**P-4522**	Screw—Choke Valve Attach	
	41	**P-21662**	Choke Valve	
	42	**P-21716**	Choke Stem and Stop	
	44	**P-21718-T**	Main Body **1-5/32"** Venturi **No 70** High Speed Bleeder	(**VAR**)
	45	**P-23222**	Throttle Body—**No 56-58** Idle Disch Hole **Nos 50** and **60** Spark Holes	(**VAR**)
		P-19370	Pin—Fast Idle Lever Fulcrum	
	46	**P-23666**	Pump Lever	
	47	**P-19165**	Pump Rod	
	51	**P-2290**	Nut—Pump Lever Attach	
	52	**P-1791**	Lockwasher—Pump Lever Attach Nut	
	53	**P-20203**	Pump Link	
	54	**P-19374**	Cotter Pin—Pump Link	
	55	**P-18135**	Nut—Pump Rod Adj	
	56	**P-4**	Cotter Pin—Pump Rod Adj Nut	
	57	**P-17020**	Nozzle—Pump Disch **No 70**	(**VAR**)
	58	**P-21053**	Plug—Pump Disch Channel	
	59	**P-22724**	Rod—Fast Idle	
	60	**112-S-22**	Cotter Pin—Fast Idle Rod	
	61	**P-22723**	Lever—Fast Idle	
	62	**P-12400**	Washer—Fast Idle Lever	
	63	**P-21338**	Cotter Pin—Fast Idle Lever Washer	
	64	**P-21067**	Float Chamber Cover	
		P-17828	Vent Cap	
		P-9802	Vent Cap Attach Rivet	
	65	**P-21068**	Gasket—Float Cover	
	66	**P-2266**	Screw—Float Chamber Cover Attach	
	67	**P-12167**	Lockwasher—Float Chamber Cover Attach Screw	
	68	**P-23215**	Throttle Lever	
		P-3199	Lever Clamp Screw	
	69	**P-15424**	Throttle Loose Lever	
		P-9270	Wire Connector Screw	
	70	**P-16487**	Throttle Loose Lever Stop	
		P-16486	Stop	
		P-9025	Stop Clamp Screw	
		P-4517	Stop Clamp Screw Nut	
	71	**P-23209**	Throttle Tube Holder	
		P-23210	Holder	
		P-11561	Holder Clamp	
		P-12868	Holder Clamp Screw	
		P-8806	Holder Clamp Screw Nut	
	72	**P-15259**	Screw—Throttle Tube Holder Attach	
	73	**P-1693**	Lockwasher—Throttle Tube Holder Attach Screw	
	74	**P-22722**	Choke Lever	
		P-22726	Lever	
		P-18300	Lever Clamp Screw	
		P-18299	Lever Clamp Screw Nut	
	75	**P-15477**	Idle Air Bleeder **No. 50**	(**VAR**)
	76	**P-21655**	Insulator—Main Body	
	77	**P-15459**	Plug—Idle Disch Drilling Hole	
	78	**P-15458**	Plug—Idle Disch Holes	
	79	**P-19448**	Gasket—Power By Pass Jet	
	80	**P-19983**	Lead Ball—1/8"	
	81	**P-7098**	Plug—Vacuum Suction Channel	
	82	**P-23232**	Adjustable Metering Jet **058"**	(**VAR**)
	83	**P-3292**	Plug—1/8" Pipe (Throttle Body)	
	84	**P-21719**	Block—Choke Stem	
	85	**P-17067**	Assy —Tube Holder	
		P-17051	Holder	
		P-11561	Clamp	
		P-12868	Screw	
		P-8806	Nut	
	86	**P-17059**	Screw—Choke Lever Fulcrum	
	87	**P-17058**	Bushing—Choke Lever Fulcrum	
	88	**P-17068**	Spring—Choke Valve Return	
	89	**P-17093**	Screw—Choke Tube Holder Attach	
	90	**P-17132**	Spring—Choke Lever Return	
	91	**P-17053**	Choke Lever	
		P-12867	Wire Connector Screw	
	92	**P-4735**	Washer—Choke Stem	

PARTS FURNISHED EXTRA WITH EACH CARBURETOR—SENT SEPARATE

Bin Location	Key No	Part No	Part Name
	94	**P-16318**	Union
	95	**P-22394**	Copper Tubing

BENDIX PRODUCTS DIVISION

SOUTH BEND OF BENDIX AVIATION CORPORATION **INDIANA**

Printed in U S A

STROMBERG EXV-3 CARBURETOR

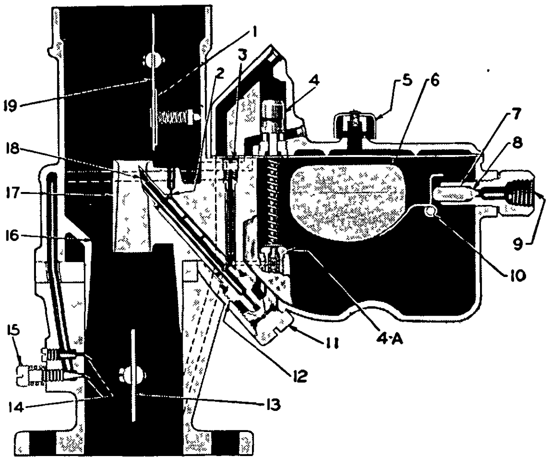
STROMBERG NO. A-18643 (CODE NO. 1-67A)

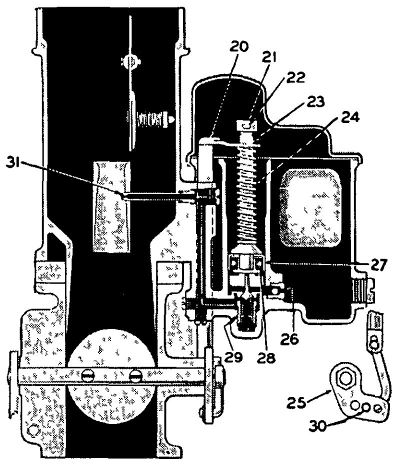
SIZE: 1-1/2″ D. D. S.A.E. 2-15/16″ FLANGE CENTERS

REPLACE WITH BXUV-3 A-19103

PARTS ILLUSTRATED

1 Poppet Valve
2. High Speed Bleeder
3 Idle Tube
4. Vacuum Power Piston
4a Power By-Pass Jet
5. Float Chamber Vent
6 Float
7 Float Needle Valve
8 Float Needle Valve Seat
9 Gasoline Inlet
10. Float Fulcrum Pin
11 Main Discharge Jet Plug
12 Main Metering Jet
13. Throttle Valve
14. Idle Discharge Holes
15. Idle Needle Valve
16. Primary Venturi
17. Auxiliary Venturi
18. Main Discharge Jet
19. Choke Valve
20 Pump Rod
21. Pump Adjustment Nut
22. Cotter Pin
23 Piston Connecting Rod
24. Pump Duration Spring
25. Pump Lever





26 Pump Inlet Check Valve
27 Pump Piston
28. Pump Piston Expan Spring
29 Accel. Pump By-Pass Jet
30 Pump Lever Link
31. Pump Discharge Nozzle

Note—Specifications below are for latest production; previous major changes listed on parts page.

FUEL LEVEL—Measure **5/8″** below top surface of float chamber (without gasket) at 3 lbs. pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level).

MAIN METERING SYSTEM — Venturi **1-3/16″**; Main Discharge Jet **No. 28** P-23971 (**Tool T-24967**); High Speed Bleeder **No. 70** P-22764. Main Metering Jet **.062** P-17004 (**Tool T-23844**); P-23232 **.062″** Adjustable Metering Jet. Main metering system controls the flow of fuel up to approximately 65 to 70 M.P.H.

POWER SYSTEM—Power By-Pass Jet **No. 52** P-23667; Power jet to come into operation at **4″** to **6″** of manifold vacuum, which is approximately 65 to 70 M.P.H. (**Tool T-24733**) used to remove vacuum power piston.

ACCELERATION—Pump Discharge Nozzle **No. 64** P-17020; Pump By-Pass Jet **4 No. 56** P-21076; Pump capacity **11** to **15** c.c. per 10 fast strokes, and **15** to **19** c.c. per 10 slow strokes with pump rod link set in middle setting. (**Tool T-24972**) Pump action takes place during acceleration period only.

IDLE SYSTEM—Idle Discharge holes **Nos. 56-58.** With throttle valve fully closed and **No. 58** drill in idle hole, edge of valve is located **.012″** + — **.004″** from **No. 58** drill; Idle Air Bleed **No. 54** P-15477; Idle Tube **No. 70** P-19424. Adjustment: Adjust to smooth running, OUT to make richer and IN to make leaner; throttle at 7 to 8 M.P.H.

VACUUM SPARK CONTROL—With throttle fully closed and **No. 50** drill in spark hole, edge of valve is located **Flush** from **No. 50** drill. Drill **1 No. 60** hole at random below throttle valve when fully closed.

FLANGE GASKET—P-4752.

SPECIAL TOOLS REQUIRED—T-24733 Float. Adj. and power piston wrench T-24967 Main Discharge Jet Remover; T-23844 Main Metering Jet Wrench; T-24970 By-Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burrette Gauge; T-24968 Handle.

MOTOR TUNE-UP DATA

SPARK PLUG—
Clean and adjust at regular intervals.

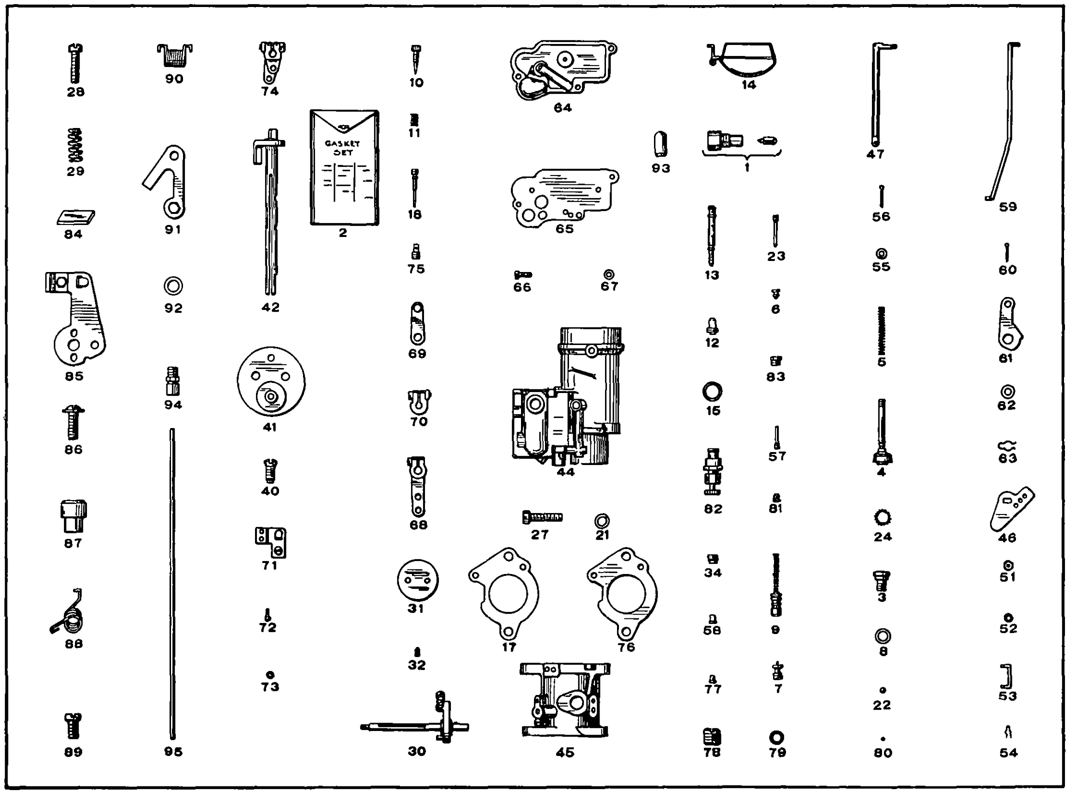
DISTRIBUTOR—Set breaker gap. Replace points if necessary.

IGNITION TIMING—Use timing light.

VALVES—Intake: Exhaust: Adjust with engine hot.

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that the thermostat is properly positioned.

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No.	Part No	Part Name	
	1	P-20887	Float Needle Valve and Seat 101″	(NOT VAR)
	2	J-4544-G	Complete Gasket Set	
	3	P-21076	Pump By Pass Jet No 56	(NOT VAR)
	4	P-19167	Pump Piston and Stem (Complete)	
	5	P-18215	Spring—Pump Duration	
	6	P-18144	Pump Inlet Check Valve	
	7	P-23667	Power By Pass Jet No 52	(NOT VAR)
	8	P-6855	Gasket—Pump By Pass Jet	
	9	P 21074	Vacuum Power Piston	
	10	P-17402	Idle Needle Valve	
	11	P-15481	Spring—Idle Needle Valve	
	12	P-17004	Metering Jet **062″**	(VAR)
	13	P-23971	Main Discharge Jet No 28	(NOT VAR)
	14	P-21663	Float with Lever	
	15	P-10666	Gasket—Float N V Seat and Adj Met Jet	
	17	P-21064	Gasket—Main Body	
	18	P-19424	Idle Tube No 70	(NOT VAR)
	21	P-8838	Lockwasher—Main Body Attach Screw	
	22	P-18772	Lead Ball—3/16′	
	23	P-18125	Screw—Float Lever Fulcrum	
	24	P-16960	Spring—Pump Piston Leather Expansion	
	27	P-23422	Screw—Main Body Attach	
	28	P-15456	Screw—Throttle Stop	
	29	P-15831	Spring—Throttle Stop Screw	
	30	P-23207	Throttle Stem and Stop (Includes Nos 28 and 29)	
	31	P-5436	Throttle Valve (20°)	(VAR)
	32	P-16716	Screw—Throttle Valve Attach	
	34	P-6184	Plug—Check Valve	
	40	P-4522	Screw—Choke Valve Attach	
	41	P-20664	Choke Valve	
	42	P-21716	Choke Stem and Stop	
	44	P-23888	Main Body **1-3/16′** Venturi **No 70** High Speed Bleeder	(VAR)
	45	P-23221	Throttle Body **No 56 58** Idle Disch Holes **Nos 50** and **60** Spark Hole	(VAR)
		P-19370	Pin—Fast Idle Lever Fulcrum	
	46	P-23666	Pump Lever	
	47	P-19165	Pump Rod	
	51	P-2290	Nut—Pump Lever Attach	
	52	P-1791	Lockwasher—Pump Lever Attach Nut	
	53	P-20203	Pump Link	
	54	P-19374	Cotter Pin—Pump Link	
	55	P-18135	Nut—Pump Rod Adj	
	56	P-4	Cotter Pin—Pump Rod Adj Nut	
	57	P-17020	Nozzle—Pump Disch **No 64**	(VAR)
	58	P-21053	Plug—Pump Disch Channel	
	59	P 22724	Rod—Fast Idle	
	60	112-S-22	Cotter Pin—Fast Idle Rod	
	61	P 22723	Lever—Fast Idle	
	62	P-12400	Washer—Fast Idle Lever	
	63	P-21338	Cotter Pin—Fast Idle Lever Fulcrum Pin	
	64	P-21067	Float Chamber Cover	
		P-17828	Vent Cap	
		P-9802	Vent Cap Attach Rivet	
	65	P-21068	Gasket—Float Cover	
	66	P-47	Screw—Float Cover Attach	
	67	P-12167	Lockwasher—Float Cover Attach Screw	
	68	P-14727	Throttle Lever	
		P-3199	Clamp Screw	
	69	P-23217	Throttle Loose Lever	
		P-9270	Wire Connector Screw	
	70	P-17287	Stop—Throttle Loose Lever	
		P-17315	Stop	
		P-18769	Stop Clamp Screw	
		P-18299	Stop Clamp Screw Nut	
	71	P-23209	Throttle Tube Holder	
		P-23210	Holder	
		P-11561	Clamp	
		P-12868	Clamp Screw	
		P-8806	Clamp Screw Nut	
	72	P-15259	Screw—Throttle Tube Holder Attach	
	73	P-1693	Lockwasher—Throttle Tube Holder Attach Screw	
	74	P 22722	Choke Lever	
		P-22726	Lever	
		P-18300	Lever Clamp Screw	
		P-18299	Lever Clamp Screw Nut	
	75	P-15477	Idle Air Bleeder **No 54**	(VAR)
	76	P-21065	Insulator—Main Body	
	77	P-15459	Plug—Idle Disch Drilling Hole	
	78	P-6387	Plug—Idle Disch Holes	
	79	P-19448	Gasket—Power By Pass Jet	
	80	P-19983	Lead Ball—1/8′	
	81	P-7098	Plug—Vacuum Suction Channel	
	82	P-23232	Adj Met Jet **062′**	(VAR)
	83	P-3292	Plug—1/8″ Pipe (Throttle Body)	
	84	P-21719	Block—Choke Stem	
	85	P-17067	Assy —Tube Holder	
		P-17051	Holder	
		P-11561	Clamp	
		P-12868	Screw	
		P-8806	Nut	
	86	P-17059	Screw—Choke Lever Fulcrum	
	87	P-17058	Bushing—Choke Lever Fulcrum	
	88	P-17068	Spring—Choke Valve Return	
	89	P-17093	Screw—Choke Tube Holder Attach	
	90	P-17132	Spring—Choke Lever Return	
	91	P-17053	Choke Lever	
		P-12867	Wire Connector Screw	
	92	P-4735	Washer—Choke Stem	
	93	P-22764	High Speed Bleeder **No 70**	(VAR)
		PARTS FURNISHED EXTRA WITH EACH CARBURETOR—SENT SEPARATE		
	94	P-16318	Union	
	95	P-22394	Copper Tubing	

BENDIX PRODUCTS DIVISION

SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

Printed in U S A

STROMBERG EXV-3 CARBURETOR

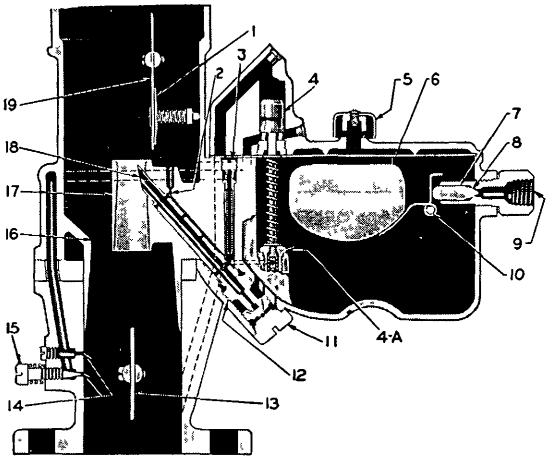
STROMBERG NO. A-18643 (CODE NO. 1-67)

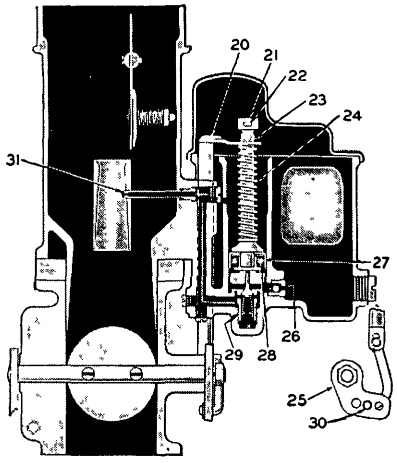
SIZE: 1-1/2″ D. D. S.A.E. 2-15/16″ FLANGE CENTERS **REPLACE WITH BXUV-3 A-19103**

STANDARD
EXV-3
(Without Dome High Speed Bleeder)

PARTS ILLUSTRATED

1 Poppet Valve
2. High Speed Bleeder
3. Idle Tube
4 Vacuum Power Piston
4a Power By-Pass Jet
5. Float Chamber Vent
6. Float
7. Float Needle Valve
8. Float Needle Valve Seat
9 Gasoline Inlet
0. Float Fulcrum Pin
11. Main Discharge Jet Plug
12. Main Metering Jet
13. Throttle Valve
14. Idle Discharge Holes
15. Idle Needle Valve
16. Primary Venturi
17. Auxiliary Venturi
18. Main Discharge Jet
19. Choke Valve
20 Pump Rod
21. Pump Adjustment Nut
22. Cotter Pin
23. Piston Connecting Rod
24. Pump Duration Spring
25. Pump Lever
26. Pump Inlet Check Valve
27 Pump Piston
28 Pump Piston Expan. Spring
29. Accel Pump By-Pass Jet
30 Pump Lever Link
31 Pump Discharge Nozzle





Note—Specifications below are for latest production; previous major changes listed on parts page.

FUEL LEVEL—Measure **5/8″** below top surface of float chamber (without gasket) at 3 lbs. pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level).

MAIN METERING SYSTEM — Venturi **1-3/16″**; Main Discharge Jet **No. 28** P-21326 (**Tool T-24967**); High Speed Bleeder **No. 70** in body. Main Metering Jet **.060″** P-17004 (**Tool T-23844**); P-23232 **.060″** Adjustable Metering Jet. Main metering system controls the flow of fuel up to approximately 65 to 70 M.P.H.

POWER SYSTEM—Power By-Pass Jet **No. 56** P-21657; Power jet to come into operation at **4″** to **6″** of manifold vacuum, which is approximately 65 to 70 M.P.H. (**Tool T-24733**) used to remove vacuum power piston.

ACCELERATION—Pump Discharge Nozzle **No. 64** P-17020; Pump By-Pass Jet **4 No. 56** P-21076; Pump capacity **11** to **15** c.c. per 10 fast strokes, and **15** to **19** c.c. per 10 slow strokes with pump rod link set in middle setting. (**Tool T-24972**) Pump action takes place during acceleration period only.

IDLE SYSTEM—Idle Discharge holes **Nos. 56-58.** With throttle valve fully closed and **No. 58** drill in idle hole, edge of valve is located **.012″ + — .004″** from **No. 58** drill; Idle Air Bleed **No. 54** P-15477; Idle Tube **No. 70** P-19424. Adjustment: Adjust to smooth running, OUT to make richer and IN to make leaner; throttle at 7 to 8 M.P.H.

VACUUM SPARK CONTROL—With throttle fully closed and **No. 50** drill in spark hole, edge of valve is located **Flush** from **No. 50** drill.

FLANGE GASKET—P-4753.

SPECIAL TOOLS REQUIRED—T-24733 Float. Adj. and power piston wrench T-24967 Main Discharge Jet Remover; T-23844 Main Metering Jet Wrench; T-24970 By-Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burrette Gauge; T-24968 Handle.

MOTOR TUNE-UP DATA

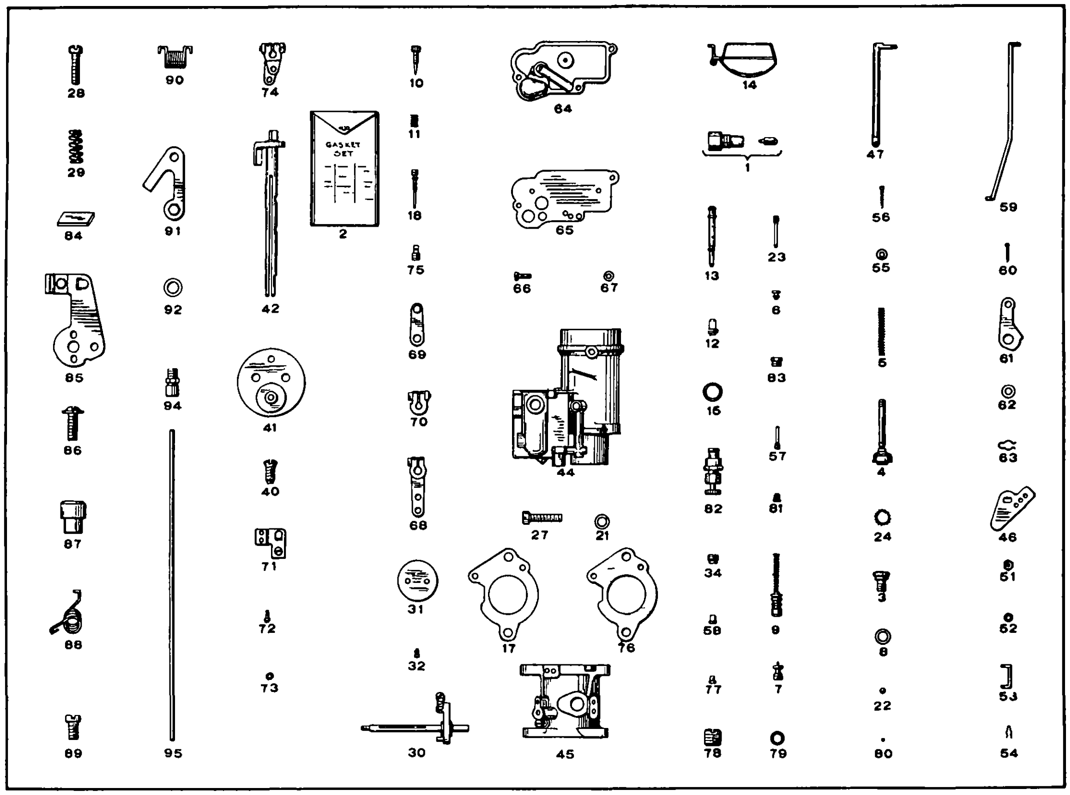
SPARK PLUG—
Clean and adjust at regular intervals.

DISTRIBUTOR—Set breaker gap. Replace points if necessary.

IGNITION TIMING—Use timing light.

VALVES—Intake: Exhaust: Adjust with engine hot.

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No.	Part No.	Part Name	
	1	**P-20887**	Float Needle Valve and Seat 101"	**(NOT VAR)**
	2	**J-4544-G**	Complete Gasket Set	
	3	**P-21076**	Pump By Pass Jet No 56	**(NOT VAR)**
	4	**P-19167**	Pump Piston and Stem (Complete)	
	5	**P-18215**	Spring—Pump Duration	
	6	**P-18144**	Pump Inlet Check Valve	
	7	**P-21657**	Power By Pass Jet No 56	**(NOT VAR)**
	8	**P-6855**	Gasket—Pump By Pass Jet	
	9	**P-21074**	Vacuum Power Piston	
	10	**P-17402**	Idle Needle Valve	
	11	**P-15481**	Spring—Idle Needle Valve	
	12	**P-17004**	Metering Jet **060"**	**(VAR)**
	13	**P-23971**	Main Discharge Jet No 28	**(NOT VAR)**
	14	**P-21663**	Float with Lever	
	15	**P-10666**	Gasket—Float N V Seat and Adj Met Jet	
	17	**P-21064**	Gasket—Main Body	
	18	**P-19424**	Idle Tube No 70	**(NOT VAR)**
	21	**P-8838**	Lockwasher—Main Body Attach Screw	
	22	**P-18772**	Lead Ball—3/16"	
	23	**P-18125**	Screw—Float Lever Fulcrum	
	24	**P-16960**	Spring—Pump Piston Leather Expansion	
	27	**P-23422**	Screw—Main Body Attach	
	28	**P-15456**	Screw—Throttle Stop	
	29	**P-15831**	Spring—Throttle Stop Screw	
	30	**P-23207**	Throttle Stem and Stop (Includes Nos 28 and 29)	
	31	**P-5436**	Throttle Valve (**20°**)	**(VAR.)**
	32	**P-16716**	Screw—Throttle Valve Attach	
	34	**P-6184**	Plug—Check Valve	
	40	**P-4522**	Screw—Choke Valve Attach	
	41	**P-20664**	Choke Valve	
	42	**P-21716**	Choke Stem and Stop	
	44	**P-22397**	Main Body **1-3/16"** Venturi, **No. 70** High Speed Bleeder	**(VAR)**
	45	**P-23221**	Throttle Body **No. 56-58** Idle Disch Holes **Nos. 50** and **60** Spark Hole	**(VAR)**
		P-19370	Pin—Fast Idle Lever Fulcrum	
	46	**P-23666**	Pump Lever	
	47	**P-19165**	Pump Rod	
	51	**P-2290**	Nut—Pump Lever Attach	
	52	**P-1791**	Lockwasher—Pump Lever Attach Nut	
	53	**P-20203**	Pump Link	
	54	**P-19374**	Cotter Pin—Pump Link	
	55	**P-18135**	Nut—Pump Rod Adj	
	56	**P-4**	Cotter Pin—Pump Rod Adj Nut	
	57	**P-17020**	Nozzle—Pump Disch —**No. 64**	**(VAR)**
	58	**P-21053**	Plug—Pump Disch Channel	
	59	**P-22724**	Rod—Fast Idle	
	60	**112-S-22**	Cotter Pin—Fast Idle Rod	
	61	**P-22723**	Lever—Fast Idle	
	62	**P-12400**	Washer—Fast Idle Lever	
	63	**P-21338**	Cotter Pin—Fast Idle Lever Fulcrum Pin	
	64	**P-21067**	Float Chamber Cover	
		P-17828	Vent Cap	
		P-9802	Vent Cap Attach Rivet	
	65	**P-21068**	Gasket—Float Cover	
	66	**P-47**	Screw—Float Cover Attach	
	67	**P-12167**	Lockwasher—Float Cover Attach Screw	
	68	**P-14727**	Throttle Lever	
		P-3199	Clamp Screw	
	69	**P-23217**	Throttle Loose Lever	
		P-9270	Wire Connector Screw	
	70	**P-17287**	Stop—Throttle Loose Lever	
		P-17315	Stop	
		P-18769	Stop Clamp Screw	
		P-18299	Stop Clamp Screw Nut	
	71	**P-23209**	Throttle Tube Holder	
		P-23210	Holder	
		P-11561	Clamp	
		P-12868	Clamp Screw	
		P-8806	Clamp Screw Nut	
	72	**P-15259**	Screw—Throttle Tube Holder Attach	
	73	**P-1693**	Lockwasher—Throttle Tube Holder Attach Screw	
	74	**P-22722**	Choke Lever	
		P-22726	Lever	
		P-18300	Lever Clamp Screw	
		P-18299	Lever Clamp Screw Nut	
	75	**P-15477**	Idle Air Bleeder **No. 54**	**(VAR.)**
	76	**P-21065**	Insulator—Main Body	
	77	**P-15459**	Plug—Idle Disch Drilling Hole	
	78	**P-6387**	Plug—Idle Disch Holes	
	79	**P-19448**	Gasket—Power By Pass Jet	
	80	**P-19983**	Lead Ball—1/8"	
	81	**P-7098**	Plug—Vacuum Suction Channel	
	82	**P-23232**	Adj Met Jet **.060"**	**(VAR.)**
	83	**P-3292**	Plug—1/8" Pipe (Throttle Body)	
	84	**P-21719**	Block—Choke Stem	
	85	**P-17067**	Assy —Tube Holder	
		P-17051	Holder	
		P-11561	Clamp	
		P-12868	Screw	
		P-8806	Nut	
	86	**P-17059**	Screw—Choke Lever Fulcrum	
	87	**P-17058**	Bushing—Choke Lever Fulcrum	
	88	**P-17068**	Spring—Choke Valve Return	
	89	**P-17093**	Screw—Choke Tube Holder Attach	
	90	**P-17132**	Spring—Choke Lever Return	
	91	**P-17053**	Choke Lever	
		P-12867	Wire Connector Screw	
	92	**P-4735**	Washer—Choke Stem	

PARTS FURNISHED EXTRA WITH EACH CARBURETOR—SENT SEPARATE

Bin Location	Key No.	Part No.	Part Name
	94	**P-16318**	Union
	95	**P-22394**	Copper Tubing

BENDIX PRODUCTS DIVISION
SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

Printed in U S A.

STROMBERG EXV-25 CARBURETOR

STROMBERG NO. A-18742 (CODE NO. 1-81A)

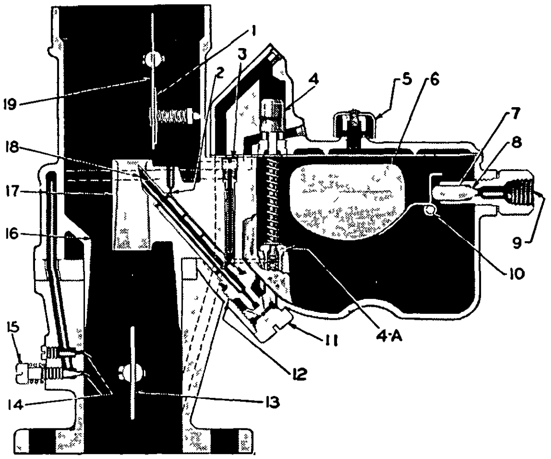
SIZE: 1-1/4" D. D. S.A.E. 2-11/16" FLANGE CENTERS

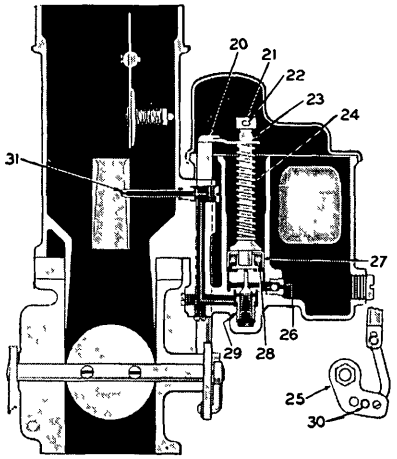
STANDARD
EXV-25

(New Style)
(With Dome High Speed Bleeder)

PARTS ILLUSTRATED

1. Poppet Valve
2. High Speed Bleeder
3. Idle Tube
4. Vacuum Power Piston
4a. Power By-Pass Jet
5. Float Chamber Vent
6. Float
7. Float Needle Valve
8. Float Needle Valve Seat
9. Gasoline Inlet
10. Float Fulcrum Pin
11. Main Discharge Jet Plug
12. Main Metering Jet
13. Throttle Valve
14. Idle Discharge Holes
15. Idle Needle Valve
16. Primary Venturi
17. Auxiliary Venturi
18. Main Discharge Jet
19. Choke Valve
20. Pump Rod
21. Pump Adjustment Nut
22. Cotter Pin
23. Piston Connecting Rod
24. Pump Duration Spring
25. Pump Lever





26. Pump Inlet Check Valve
27. Pump Piston
28. Pump Piston Expan. Spring
29. Accel Pump By-Pass Jet
30. Pump Lever Link
31. Pump Discharge Nozzle

Note—Specifications below are for latest production; previous major changes listed on parts page.

FUEL LEVEL—Measure **5/8"** below top surface of float chamber (without gasket) at 3 lbs. pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level).

MAIN METERING SYSTEM—Venturi **1-1/32"**; Main Discharge Jet **No. 28-36** P-23884 (**Tool T-24967**); High Speed Bleeder **No. 70** P-22764. Main Metering Jet **.052"** P-17004 (**Tool T-23844**); P-23232 **.052"** Adjustable Metering Jet. Main metering system controls the flow of fuel up to approximately 65 to 70 M.P.H.

POWER SYSTEM—Power By-Pass Jet **No. 61** P-21198; Power jet to come into operation at **4"** to **6"** of manifold vacuum, which is approximately 65 to 70 M.P.H. (**Tool T-24733**) used to remove vacuum power piston.

ACCELERATION—Pump Discharge Nozzle **No. 70** P-14358; Pump By-Pass Jet **4 No. 56** P-23228; Pump capacity **11** to **15** c.c. per 10 fast strokes, and **15** to **19** c.c. per 10 slow strokes with pump rod link set in middle setting. (**Tool T-24972**) Pump action takes place during acceleration period only.

IDLE SYSTEM—Idle Discharge holes **Nos. 56-58.** With throttle valve fully closed and **No. 58** drill in idle hole, edge of valve is located **.018" + — .004"** from **No. 58** drill; Idle Air Bleed **No. 54** P-15477; Idle Tube **No. 70** P-19424. Adjustment: Adjust to smooth running, OUT to make richer and IN to make leaner; throttle at 7 to 8 M.P.H.

THERMOSTAT SETTING—Set thermostat **12** graduations rich from (0 mark).

VACUUM SPARK CONTROL—With throttle fully closed and **No. 50** drill in spark hole, edge of valve is located **Flush** from **No. 50** drill. Drill **1 No. 60** hole at random below throttle valve when fully closed.

FLANGE GASKET—P-4752.

SPECIAL TOOLS REQUIRED—T-24733 Float. Adj. and power piston wrench T-24967 Main Discharge Jet Remover; T-23844 Main Metering Jet Wrench; T-24970 By-Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burrette Gauge; T-24968 Handle.

MOTOR TUNE-UP DATA

SPARK PLUG—
Clean and adjust at regular intervals.

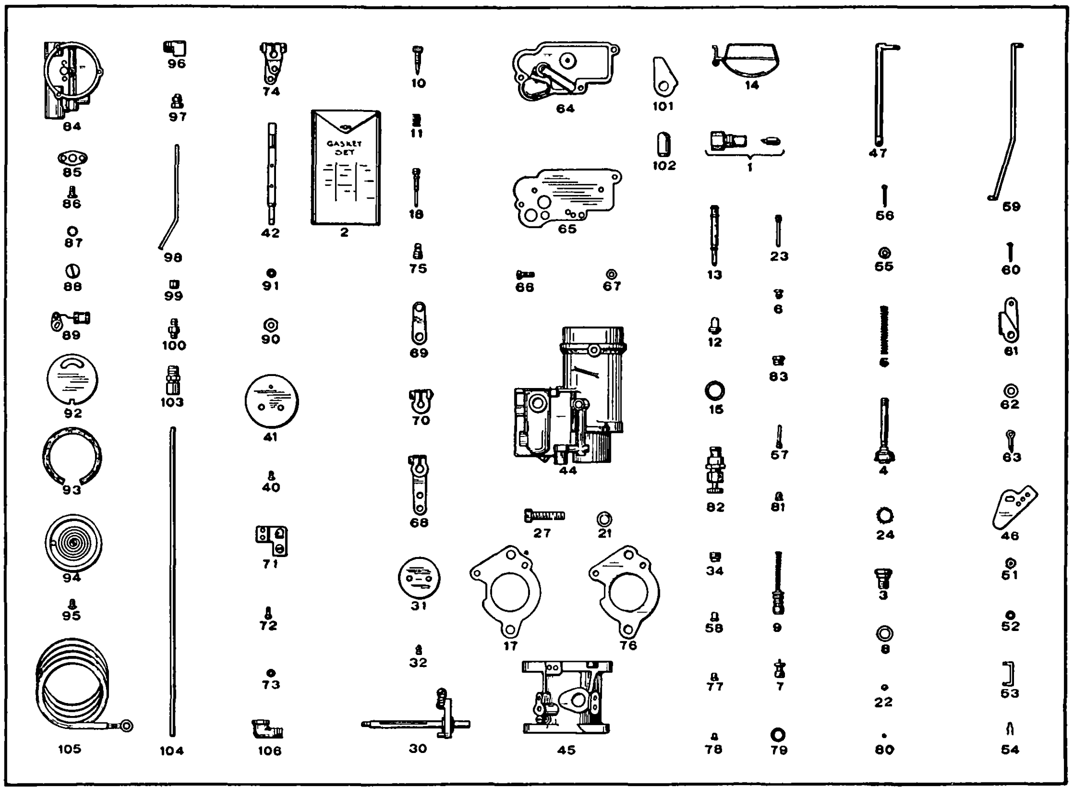
DISTRIBUTOR—Set breaker gap. Replace points if necessary.

IGNITION TIMING—Use timing light.

VALVES—Intake: Exhaust: Adjust with engine hot.

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No.	Part No	Part Name	
	1	P-20774	Float Needle Valve and Seat 086"	(NOT VAR)
	2	J-5329-G	Complete Gasket Set	
	3	P-23228	Pump By Pass Jet No 56	(NOT VAR)
	4	P-19167	Pump Piston and Link (Complete)	
	5	P-20666	Spring—Pump Duration	
	6	P-18144	Pump Inlet Check Valve	
	7	P-21198	Power By Pass Jet No 61	(NOT VAR)
	8	P-6855	Gasket—By Pass Jet—Pump	
	9	P-21074	Vacuum Power Piston	
	10	P-17402	Idle Needle Valve	
	11	P-15481	Spring—Idle Needle Valve	
	12	P-17004	Metering Jet 052"	(VAR)
	13	P-23884	Main Disch Jet No 28 36	(NOT VAR)
	14	P-21663	Float with Lever	
	15	P-10666	Gasket—Float N V Seat and Adjust Met Jet	
	17	P-21654	Gasket—Main Body	
	18	P-19424	Idle Tube No 70	(NOT VAR)
	21	P-8838	Lockwasher—Main Body Attach Screw	
	22	P-18772	Lead Ball—3/16"	
	23	P-18125	Screw—Float Fulcrum	
	24	P-16960	Spring—Pump Piston Leather Expansion	
	27	P-23422	Screw—Main Body Attach	
	30	P-23166	Throttle Stop and Stem	
		P-15456	Screw—Idle Adj	
		P-15831	Spring—Idle Adj Screw	
	31	P-6454	Throttle Valve (20°)	(VAR)
	32	P-16717	Screw—Throttle Valve Attach	
	34	P-6184	Plug—Check Valve Channel	
	40	P-22573	Screw—Choke Valve Attach	
	41	P-23140	Choke Valve	
	42	P-23082	Choke Stem	
	44	P-23887-T	Main Body—1-1/32" Venturi **No** 70 High Speed Bleeder	(VAR)
	45	P-23144	Throttle Body **No 56-58** Idle Disch Holes **No** 50 and **No. 60** Spark Hole	(VAR)
		P-23620	Pin—Fast Idle Lever Fulcrum	
	46	P-23666	Pump Lever	
	47	P-19165	Pump Rod	
	51	P-2290	Nut—Pump Lever Attach	
	52	P-1791	Lockwasher—Pump Lever Attach Nut	
	53	P-20203	Link—Pump Lever	
	54	P-19374	Cotter Pin—Pump Link	
	55	P-18135	Nut—Pump Rod	
	56	P-4	Cotter Pin—Pump Rod Nut and Thermostat Attach	
	57	P-14358	Nozzle—Pump Disch **No** 70	(VAR)
	58	P-21053	Plug—Pump Disch Channel	
	59	P-23623	Rod—Fast Idle	
	60	112-S-22	Cotter Pin—Fast Idle Rod	
	61	P-23621	Lever—Fast Idle	
	62	P-20355	Washer—Fast Idle Lever	
	63	P-7170	Cotter Pin—Fast Idle Lever	
	64	P-21067	Cover—Float	
		P-17828	Float Vent Cap	
		P-9802	Float Vent Cap Attach Rivet	
	65	P-21068	Gasket—Float Cover	
	66	P-2266	Screw—Float Cover Attach	
	67	P-12167	Lockwasher—Float Cover Attach Screw	
	68	P-23215	Throttle Lever	
		P-23216	Lever	
		P-3199	Lever Clamp Screw	
	69	P-15424	Throttle Loose Lever	
		P-9270	Wire Clamp Screw	
	70	P-16487	Throttle Loose Lever Stop	
		P-16486	Stop	
		P-18769	Stop Clamp Screw	
		P-18299	Stop Clamp Screw Nut	
	71	P-23209	Throttle Tube Holder (Assy)	
		P-23210	Holder	
		P-11561	Holder Clamp	
		P-12868	Holder Clamp Screw	
		P-8806	Holder Clamp Screw Nut	
	72	P-15259	Screw—Throttle Tube Holder Attach	
	73	P-1693	Lockwasher—Throttle Tube Holder Att Screw	
	74	P-22722	Choke Lever	
		P-22726	Lever	
		P-18300	Lever Clamp Screw	
		P-18299	Lever Screw Nut	
	75	P-15477	Idle Air Bleeder **No** 54	(VAR)
	76	P-21655	Insulator—Main Body	
	77	P-15459	Plug—Idle Disch Drilling Hole	
	78	P-15458	Plug—Idle Disch Hole	
	79	P-19448	Gasket—Power By Pass Jet	
	80	P-19983	Lead Ball—1/8"	
	81	P-7098	Plug—Vacuum Channel	
	82	P-23232	Adjustable Metering Jet 052"	(VAR)
	83	P-3292	Plug—Spark and Vacuum Channel	
	84	P-23084	Thermostat Housing	
	85	P-23053	Gasket—Thermostat Housing Boss	
	86	P-23122	Screw—Thermostat Housing Attach	
	87	P-15346	Lockwasher—Thermostat Housing Attach Screw	
	88	P-11348	Plug—Vacuum Piston Channel	
	89	P-23064	Vacuum Piston Link and Lever	
	90	P-16571	Nut—Vac Piston Link and Lever Attach	
	91	P-15875	Lockwasher—Vac Piston Link and Lever Att Nut	
	92	P-23051	Plate—Electric Unit Baffle	
	93	P-23052	Insulator—Electric Unit	
	94	P-23432	Assy —Thermostat and Electric Unit	
		P-21507	Thermostat	
		P-23124	Electric Unit	
	95	P-21596	Screw—Thermostat and Electric Unit Attach	
	96	P-23142	Nut—Elbow Vacuum	
	97	P-23141	Nipple—Elbow Vacuum Tube	
	98	P-23077	Tube—Vacuum	
	99	P-23072	Nut—Vacuum Tube	
	100	P-23071	Nipple—Vacuum Tube	
	101	P-23622	Cam—Fast Idle	
	102	P-22764	Bleeder—High Speed **No** 70	(VAR)

EXTRA EQUIPMENT FURNISHED SEPARATE WITH EACH CARBURETOR

Bin Location	Key No.	Part No	Part Name
	103	P-16318	Compression Union
	104	P-22394	Tubing—Copper
	105	P-21987	Auto Choke Wire
	106	P-2714	Street Elbow

BENDIX PRODUCTS DIVISION
SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA
Printed in U S A

STROMBERG EXV-25 CARBURETOR

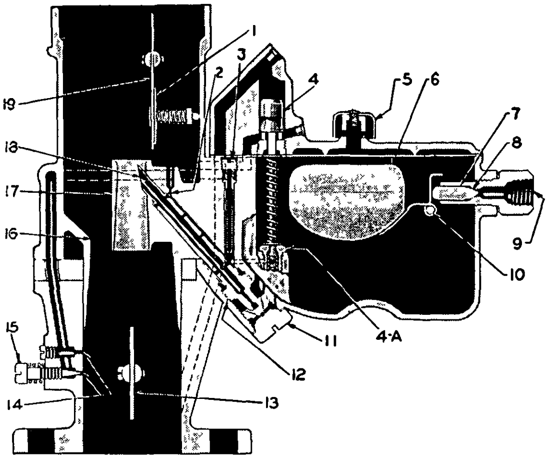
STROMBERG NO. A-18742 (CODE NO. 1-81)

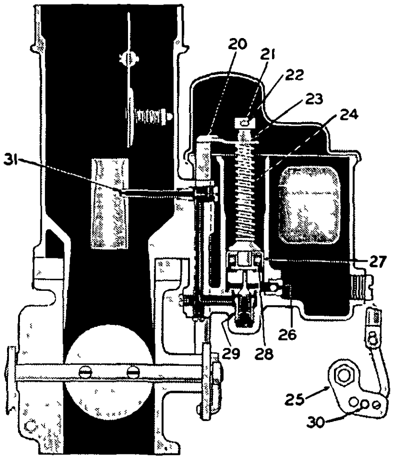
SIZE: 1-1/4" D. D. S.A.E. 2-11/16" FLANGE CENTER

STANDARD
EXV-25
(Without Dome High Speed Bleeder)

PARTS ILLUSTRATED

1. Poppet Valve
2. High Speed Bleeder
3. Idle Tube
4. Vacuum Power Piston
4a. Power By-Pass Jet
5. Float Chamber Vent
6. Float
7. Float Needle Valve
8. Float Needle Valve Seat
9. Gasoline Inlet
0. Float Fulcrum Pin
11. Main Discharge Jet Plug
12. Main Metering Jet
13. Throttle Valve
14. Idle Discharge Holes
15. Idle Needle Valve
16. Primary Venturi
17. Auxiliary Venturi
18. Main Discharge Jet
19. Choke Valve
20. Pump Rod
21. Pump Adjustment Nut
22. Cotter Pin
23. Piston Connecting Rod
24. Pump Duration Spring
25. Pump Lever
26. Pump Inlet Check Valve
27. Pump Piston
28. Pump Piston Expan. Spring
29. Accel. Pump By-Pass Jet
30. Pump Lever Link
31. Pump Discharge Nozzle





Note—Specifications below are for latest production; previous major changes listed on parts page.

FUEL LEVEL—Measure **5/8"** below top surface of float chamber (without gasket) at 3 lbs. pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level).

MAIN METERING SYSTEM—Venturi **1-1/32"**; Main Discharge Jet **No. 28-36** P-18226 (**Tool T-24967**); High Speed Bleeder **No. 70** in body. Main Metering Jet **.051"** P-17004 (**Tool T-23844**); P-23232 **.051"** Adjustable Metering Jet. Main metering system controls the flow of fuel up to approximately 65 to 70 M.P.H.

POWER SYSTEM—Power By-Pass Jet **No. 61** P-21198; Power jet to come into operation at **4"** to **6"** of manifold vacuum, which is approximately 65 to 70 M.P.H. (**Tool T-24733**) used to remove vacuum power piston.

ACCELERATION—Pump Discharge Nozzle **No. 70** P-14358; Pump By-Pass Jet **4 No. 56** P-23228; Pump capacity **11** to **15** c.c. per 10 fast strokes, and **15** to **19** c.c. per 10 slow strokes with pump rod link set in middle setting. (**Tool T-24972**) Pump action takes place during acceleration period only.

IDLE SYSTEM—Idle Discharge holes **Nos. 56-58.** With throttle valve fully closed and **No. 58** drill in idle hole, edge of valve is located **.018" + — .004"** from **No. 58** drill; Idle Air Bleed **No. 54** P-15477; Idle Tube **No. 70** P-19424. Adjustment: Adjust to smooth running, OUT to make richer and IN to make leaner; throttle at 7 to 8 M.P.H.

THERMOSTAT SETTING—Set thermostat **12** graduations rich from (0 mark).

VACUUM SPARK CONTROL—With throttle fully closed and **No. 50** drill in spark hole, edge of valve is located **Flush** from **No. 50** drill.

FLANGE GASKET—P-4752.

SPECIAL TOOLS REQUIRED—T-24733 Float. Adj. and power piston wrench T-24967 Main Discharge Jet Remover; T-23844 Main Metering Jet Wrench; T-24970 By-Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burrette Gauge; T-24968 Handle.

MOTOR TUNE-UP DATA

SPARK PLUG— Clean and adjust at regular intervals.

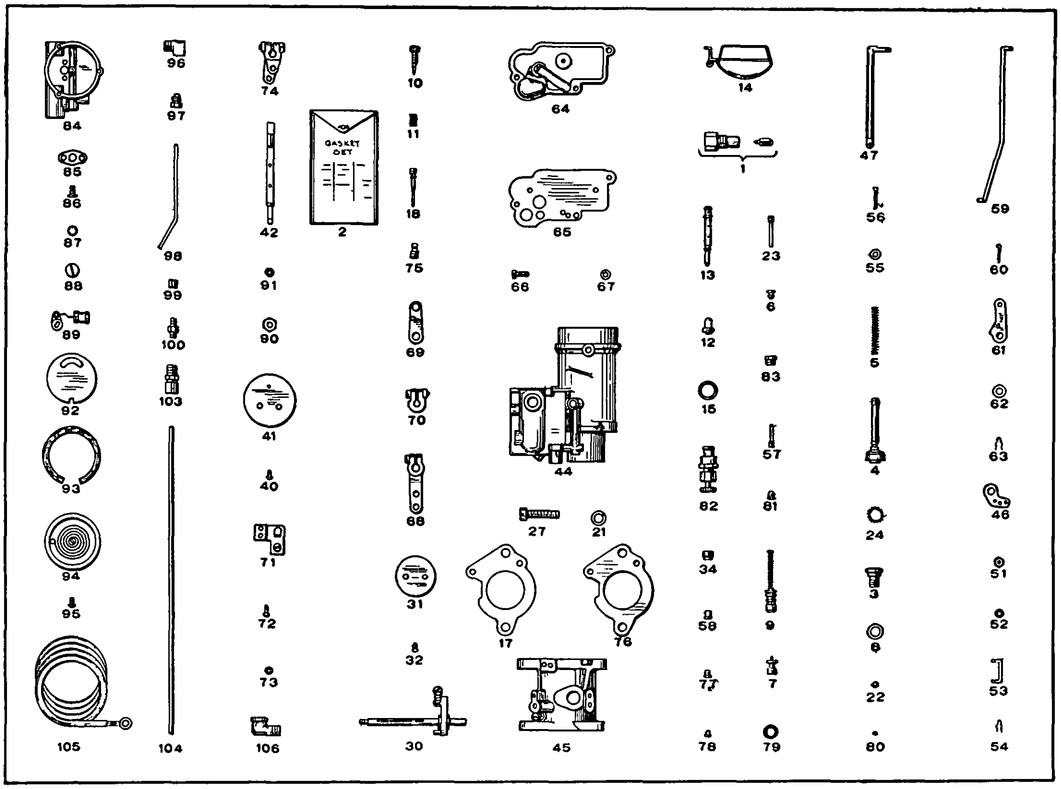
DISTRIBUTOR—Set breaker gap. Replace points if necessary.

IGNITION TIMING—Use timing light.

VALVES—Intake: Exhaust: Adjust with engine hot.

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No	Part No	Part Name	
	1	**P-20774**	Float Needle Valve and Seat 086″	**(NOT VAR)**
	2	**J-5329-G**	Complete Gasket Set	
	3	**P-23228**	Pump By Pass Jet No 56	**(NOT VAR)**
	4	**P-19167**	Pump Piston and Link (Complete)	
	5	**P-20666**	Spring—Pump Duration	
	6	**P-18144**	Pump Inlet Check Valve	
	7	**P-21198**	Power By Pass Jet No 61	**(NOT VAR)**
	8	**P-6855**	Gasket—Pump By Pass Jet	
	9	**P-21074**	Vacuum Power Piston	
	10	**P-17402**	Idle Needle Valve	
	11	**P-15481**	Spring—Idle Needle Valve	
	12	**P-17004**	Metering Jet **051″**	**(VAR)**
	13	**P-18226**	Main Disch Jet No 28 36	**(NOT VAR)**
	14	**P-21663**	Float with Lever	
	15	**P-10666**	Gasket—Float N V Seat and Adj Met Jet	
	17	**P-21654**	Gasket—Main Body	
	18	**P-19424**	Idle Tube No 70	**(NOT VAR)**
	21	**P-8838**	Lockwasher—Main Body Attach Screw	
	22	**P-18772**	Lead Ball—3/16″	
	23	**P-18125**	Screw—Float Fulcrum	
	24	**P-16960**	Spring—Pump Piston Leather Expansion	
	27	**P-23422**	Screw—Main Body Attach	
	30	**P-23166**	Throttle Stop and Stem	
		P-15456	Screw—Throttle Stop	
		P-15831	Spring—Throttle Stop Screw	
	31	**P-6454**	Throttle Valve **(20°)**	**(VAR)**
	32	**P-16717**	Screw—Throttle Valve Attach	
	34	**P-6184**	Plug—Check Valve Channel	
	40	**P-22573**	Screw—Choke Valve Attach	
	41	**P-23140**	Choke Valve	
	42	**P-23082**	Choke Stem	
	44	**P-23078**	Main Body—**1-1/32″** Venturi **No 70** High Speed Bleed	**(VAR)**
	45	**P-23079**	Throttle Body **No 56-58** Idle Disch Hole **No 50** Spark Hole	**(VAR)**
		P-19370	Pin—Fast Idle Lever Fulcrum	
	46	**P-20628**	Pump Lever	
	47	**P-19165**	Pump Rod	
	51	**P-2290**	Nut—Pump Lever Attach	
	52	**P-1791**	Lockwasher—Pump Lever Attach Nut	
	53	**P-20203**	Link—Pump Lever	
	54	**P-19374**	Cotter Pin—Pump Link	
	55	**P-18135**	Nut—Pump Rod	
	56	**P-4**	Cotter Pin—Pump Rod Nut and Thermostat Attach	
	57	**P-14358**	Nozzle—Pump Disch **No 70**	**(VAR)**
	58	**P-21053**	Plug—Pump Channel	
	59	**P-22724**	Rod—Fast Idle	
	60	**112-S-22**	Cotter Pin—Fast Idle Rod	
	61	**P-22723**	Lever—Fast Idle	
	62	**P-12400**	Washer—Fast Idle Lever	
	63	**P-21338**	Cotter Pin—Fast Idle Lever (Slotted Fulcrum Pin)	
		P-7170	Cotter Pin—Use with Fulcrum Pin with Hole	
	64	**P-21067**	Float Cover	
		P-17828	Float Vent Cap	
		P-9802	Float Vent Cap Attach Rivet	
	65	**P-21068**	Gasket—Float Cover	
	66	**P-2266**	Screw—Float Cover Attach	
	67	**P-12167**	Lockwasher—Float Cover Attach Screw	
	68	**P-23215**	Throttle Lever	
		P-23216	Lever	
		P-3199	Lever Clamp Screw	
	69	**P-15424**	Throttle Loose Lever	
		P-9270	Wire Connecting Screw	
	70	**P-16487**	Throttle Loose Lever Stop	
		P-16486	Stop	
		P-18769	Stop Clamp Screw	
		P-18299	Stop Clamp Screw Nut	
	71	**P-23209**	Throttle Tube Holder (Assy)	
		P-23210	Holder	
		P-11561	Holder Clamp	
		P-12868	Holder Clamp Screw	
		P-8806	Holder Clamp Screw Nut	
	72	**P-15259**	Screw—Throttle Tube Holder Attach	
	73	**P-1693**	Lockwasher—Throttle Tube Holder Attach Screw	
	74	**P-22722**	Choke Lever	
		P-22726	Lever	
		P-18300	Lever Clamp Screw	
		P-18299	Lever Clamp Screw Nut	
	75	**P-15477**	Idle Air Bleeder—**No 54**	**(VAR)**
	76	**P-21655**	Insulator—Main Body	
	77	**P-15459**	Plug—Idle Disch Drilling Hole	
	78	**P-15458**	Plug—Idle Disch Holes	
	79	**P-19448**	Gasket—Power By Pass Jet	
	80	**P-19983**	Lead Balls—1/8′	
	81	**P-7098**	Plug—Vacuum Channel	
	82	**P-23232**	Adjustable Metering Jet **051″**	**(VAR)**
	83	**P-3292**	Plug—Spark and Vacuum Channel	
	84	**P-23084**	Thermostat Housing	
	85	**P-23053**	Gasket—Thermostat Housing Boss	
	86	**P-23122**	Screw—Thermostat Housing Attach	
	87	**P-15346**	Lockwasher—Thermostat Housing Attach Screw	
	88	**P-11348**	Plug—Vacuum Piston Channel	
	89	**P-23064**	Vacuum Piston Link and Lever	
	70	**P-16571**	Nut—Vacuum Piston Link and Lever Attach	
	91	**P-15875**	Lockwasher—Vac Piston Link and Lever Att Nut	
	92	**P-23051**	Plate—Electric Unit Baffle	
	93	**P-23052**	Insulator—Electric Unit	
	94	**P-23432**	Assy —Thermostat and Electric Unit	
		P-21507	Thermostat	
		P-23124	Electric Unit	
	95	**P-21596**	Screw—Thermostat and Electric Unit Attach	
	96	**P-23142**	Nut—Elbow—Vacuum	
	97	**P-23141**	Nipple—Elbow—Vacuum Tube	
	98	**P-23077**	Tube—Vacuum	
	99	**P-23072**	Nut—Vacuum Tube	
	100	**P-23071**	Nipple—Vacuum Tube	

EXTRA PARTS FURNISHED WITH EACH CARBURETOR

Key No	Part No	Part Name
103	**P-16318**	Compression Unit
104	**P-22394**	Tubing—Copper
105	**P-21987**	Auto Choke Wire
106	**P-2714**	Street Elbow

BENDIX PRODUCTS DIVISION
SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

Printed in U S A

STROMBERG EXV-25 CARBURETOR

STANDARD
EXV-25
(New Style)
(With Dome High Speed Bleeder)

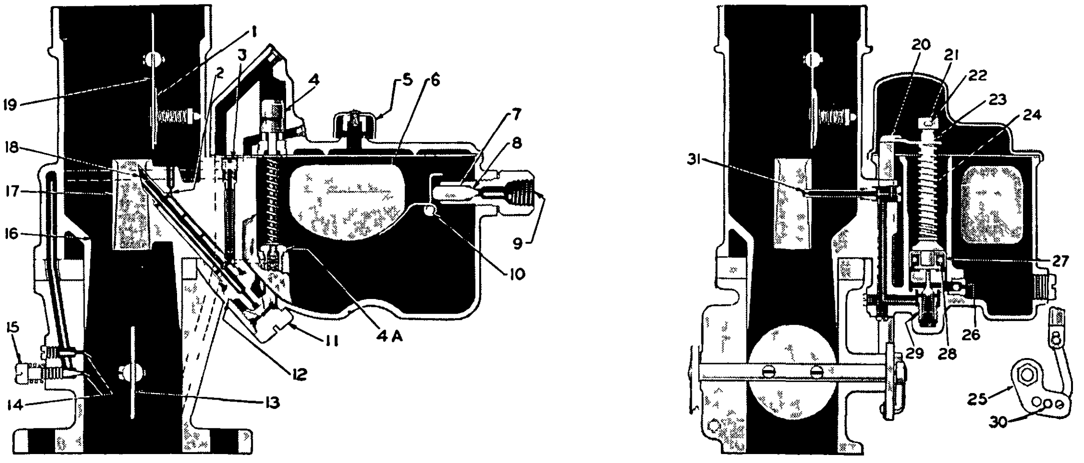
STROMBERG NO A-18752 (CODE NO 1 82A)

SIZE 1-1/4′ D D S A E 2-11/16′ FLANGE CENTERS

REPLACE WITH BXV-2 A-19082

PARTS ILLUSTRATED

1 Poppet Valve
2 High Speed Bleeder
3 Idle Tube
4 Vacuum Power Piston
4a Power By Pass Jet
5 Float Chamber Vent
6 Float
7 Float Needle Valve
8 Float Needle Valve Seat
9 Gasoline Inlet
10 Float Fulcrum Pin
11 Main Discharge Jet Plug
12 Main Metering Jet
13 Throttle Valve
14 Idle Discharge Holes
15 Idle Needle Valve
16 Primary Venturi
17 Auxiliary Venturi
18 Main Discharge Jet
19 Choke Valve
20 Pump Rod
21 Pump Adjustment Nut
22 Cotter Pin
23 Piston Connecting Rod
24 Pump Duration Spring
25 Pump Lever



26 Pump Inlet Check Valve
27 Pump Piston
28 Pump Piston Expan Spring
29 Accel Pump By Pass Jet
30 Pump Lever Link
31 Pump Discharge Nozzle

Note—Specifications below are for latest production; previous major changes listed on parts page.

FUEL LEVEL—Measure **5/8″** below top surface of float chamber (without gasket) at 3 lbs pressure (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level)

MAIN METERING SYSTEM—Venturi **1-3/32″**; Main Discharge Jet **No. 28-36** P 23884 (**Tool T-24967**); High Speed Bleeder **No. 70** P 22764, Main Metering Jet **.057″** P 17004 (**Tool T-23844**); P 23232 **.057″** Adjustable Metering Jet Main metering system controls the flow of fuel up to approximately 65 to 70 M P H

POWER SYSTEM—Power By Pass Jet **No. 55** P 23676 Power jet to come into operation at **4″** to **6″** of manifold vacuum, which is approximately 65 to 70 M P H (**Tool T-24733**) used to remove vacuum power piston

ACCELERATION—Pump Discharge Nozzle **No. 70** P 17020 Pump By Pass Jet **4 No. 56** P 21076 Pump capacity **11** to **15** c c per 10 fast strokes and **15** to **19** c c per 10 slow strokes with pump rod link set in middle setting (**Tool T-24972**) Pump action takes place during acceleration period only

IDLE SYSTEM—Idle Discharge holes **Nos. 56-58.** With throttle valve fully closed and **No. 58** drill in idle hole, edge of valve is located **.018″** + — **.004″** from **No. 58** drill Idle Air Bleed **No. 53** P 15477, Idle Tube **No. 70** P 19424 Adjustment Adjust to smooth running, OUT to make richer and IN to make leaner, throttle at 7 to 8 M P H

THERMOSTAT SETTING—Set thermostat **12** graduations rich from (0 mark)

VACUUM SPARK CONTROL—With throttle fully closed and **No. 50** drill in spark hole, edge of valve is located **Flush** from **No. 50** drill Drill **1 No. 60** hole at random below throttle valve when fully closed

FLANGE GASKET—P 4752

SPECIAL TOOLS REQUIRED—T 24733 Float Adj and power piston wrench T 24967 Main Discharge Jet Remover, T 23844 Main Metering Jet Wrench' T 24970 By Pass Jet and Check Valve Tester, T 24972 Pump Capacity Burrette Gauge, T 24968 Handle

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MOTOR TUNE-UP DATA

SPARK PLUG—
Clean and adjust at regular intervals.

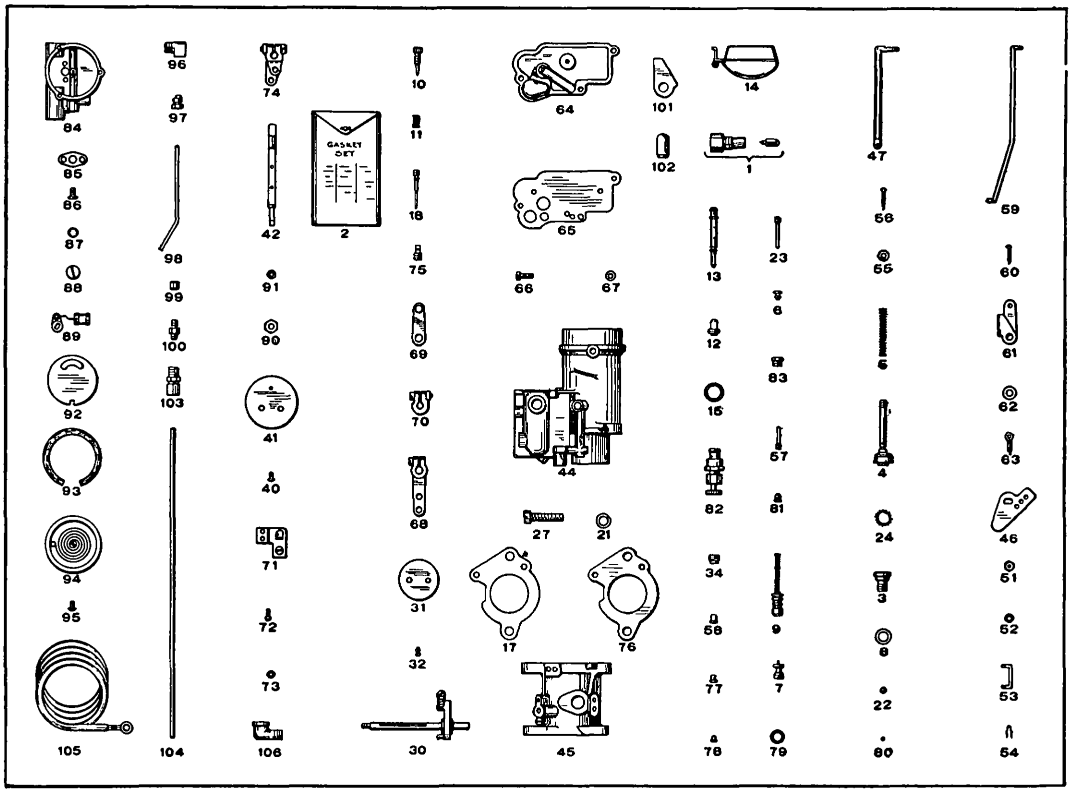
DISTRIBUTOR—Set breaker gap. Replace points if necessary.

IGNITION TIMING—Use timing light.

VALVES—Intake: Exhaust: Adjust with engine hot.

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No.	Part No.	Part Name	
	1	**P-20774**	Float Needle Valve and Seat 086″	**(NOT VAR.)**
	2	**J-5329-G**	Complete Gasket Set	
	3	**P-23228**	Pump By Pass Jet No 56	**(NOT VAR)**
	4	**P-19167**	Pump Piston and Link (Complete)	
	5	**P-20666**	Spring—Pump Duration	
	6	**P-18144**	Pump Inlet Check Valve	
	7	**P-23676**	Power By Pass Jet No 55	**(NOT VAR.)**
	8	**P-6855**	Gasket—By Pass Jet—Pump	
	9	**P-21074**	Vacuum Power Piston	
	10	**P-17402**	Idle Needle Valve	
	11	**P-15481**	Spring—Idle Needle Valve	
	12	**P-17004**	Metering Jet **.057″**	**(VAR)**
	13	**P-23884**	Main Disch Jet No 28 36	**(NOT VAR.)**
	14	**P-21663**	Float with Lever	
	15	**P-10666**	Gasket—Float N V Seat and Adj Metering Jet	
	17	**P-21654**	Gasket—Main Body	
	18	**P-19424**	Idle Tube No 70	**(NOT VAR)**
	21	**P-8838**	Lockwasher—Main Body Attach Screw	
	22	**P-18772**	Lead Ball—3/16″	
	23	**P-18125**	Screw—Float Fulcrum	
	24	**P-16960**	Spring—Pump Piston Leather Expansion	
	27	**P-23422**	Screw—Main Body Attach	
	30	**P-23166**	Throttle Stop and Stem	
		P-15456	Screw—Idle Adj	
		P-15831	Spring—Idle Adj Screw	
	31	**P-6454**	Throttle Valve **(20°)**	**(VAR)**
	32	**P-16717**	Screw—Throttle Valve Attach	
	34	**P-6184**	Plug—Check Valve Channel	
	40	**P-22573**	Screw—Choke Valve Attach	
	41	**P-23140**	Choke Valve	
	42	**P-23082**	Choke Stem	
	44	**P-23887-T**	Main Body—**1-3/32″** Venturi **No. 70** High Speed Bleeder	**(VAR)**
	45	**P-23144**	Throttle Body **No. 56-58** Idle Disch Holes **Nos 50** and **60** Spark Hole	**(VAR)**
		P-23620	Pin—Fast Idle Lever Fulcrum	
	46	**P-23666**	Pump Lever	
	47	**P-19165**	Pump Rod	
	51	**P-2290**	Nut—Pump Lever Attach	
	52	**P-1791**	Lockwasher—Pump Lever Attach Nut	
	53	**P-20203**	Link—Pump Lever	
	54	**P-19374**	Cotter Pin—Pump Link	
	55	**P-18135**	Nut—Pump Rod	
	56	**P-4**	Cotter Pin—Pump Rod Nut and Thermostat Attach	
	57	**P-14358**	Nozzle—Pump Disch **No. 70**	**(VAR)**
	58	**P-21053**	Plug—Pump Disch Channel	
	59	**P-23623**	Rod—Fast Idle	
	60	**112-S-22**	Cotter Pin—Fast Idle Rod	
	61	**P-23621**	Lever—Fast Idle	
	62	**P-20355**	Washer—Fast Idle Lever	
	63	**P-7170**	Cotter Pin—Fast Idle Lever	
	64	**P-21067**	Cover—Float	
		P-17828	Float Vent Cap	
		P-9802	Float Vent Cap Attach Rivet	
	65	**P-21068**	Gasket—Float Cover	
	66	**P-2266**	Screw—Float Cover Attach	
	67	**P-12167**	Lockwasher—Float Cover Attach Screw	

Bin Location	Key No	Part No	Part Name	
	68	**P-23215**	Throttle Lever	
		P-23216	Lever	
		P-3199	Lever Clamp Screw	
	69	**P-15424**	Throttle Loose Lever	
		P-9270	Wire Clamp Screw	
	70	**P-16487**	Throttle Loose Lever Stop	
		P-16486	Stop	
		P-18769	Stop Clamp Screw	
		P-18299	Stop Clamp Screw Nut	
	71	**P-23209**	Throttle Tube Holder (Assy)	
		P-23210	Holder	
		P-11561	Holder Clamp	
		P-12868	Holder Clamp Screw	
		P-8806	Holder Clamp Screw Nut	
	72	**P-15259**	Screw—Throttle Tube Holder Attach	
	73	**P-1693**	Lockwasher—Throttle Tube Holder Attach Screw	
	74	**P-22722**	Choke Lever	
		P-22726	Lever	
		P-18300	Lever Clamp Screw	
		P-18299	Lever Clamp Screw Nut	
	75	**P-15477**	Idle Air Bleeder **No 53**	**(VAR)**
	76	**P-21655**	Insulator—Main Body	
	77	**P-15459**	Plug—Idle Disch Drilling Hole	
	78	**P-15458**	Plug—Idle Disch Hole	
	79	**P-19448**	Gasket—Power By-Pass Jet	
	80	**P-19983**	Lead Ball—1/8″	
	81	**P-7098**	Plug—Vacuum Channel	
	82	**P-23232**	Adjustable Metering Jet **.057″**	**(VAR.)**
	83	**P-3292**	Plug—Spark Vacuum Channel	
	84	**P-23084**	Thermostat Housing	
	85	**P-23053**	Gasket—Thermostat Housing Boss	
	86	**P-23122**	Screw—Thermostat Housing Attach	
	87	**P-15346**	Lockwasher—Thermostat Housing Attach Screw	
	88	**P-11348**	Plug—Vacuum Piston Channel	
	89	**P-23064**	Vacuum Piston Link and Lever	
	90	**P-16571**	Nut—Vacuum Piston Link and Lever Attach	
	91	**P-15875**	Lockwasher—Vac Piston Link and Lever Att Nut	
	92	**P-23051**	Plate—Electric Unit Baffle	
	93	**P-23052**	Insulator—Electric Unit	
	94	**P-23432**	Assy —Thermostat and Electric Unit	
		P-21507	Thermostat	
		P-23124	Electric Unit	
	95	**P-21596**	Screw—Thermostat and Electric Unit Attach	
	96	**P-23142**	Nut—Elbow Vacuum	
	97	**P-23141**	Nipple—Elbow Vacuum Tube	
	98	**P-23077**	Tube—Vacuum	
	99	**P-23072**	Nut—Vacuum Tube	
	100	**P-23071**	Nipple—Vacuum Tube	
	101	**P-23622**	Cam—Fast Idle	
	102	**P-22764**	Bleeder—High Speed **No. 70**	**(VAR)**

EXTRA EQUIPMENT FURNISHED SEPARATE WITH EACH CARBURETOR

Bin Location	Key No	Part No	Part Name
	103	**P-16318**	Compression Union
	104	**P-22394**	Tubing—Copper
	105	**P-21987**	Auto Choke Wire
	106	**P-2714**	Street Elbow

BENDIX PRODUCTS DIVISION
SOUTH BEND OF BENDIX AVIATION CORPORATION **INDIANA**

Printed in U S A

STROMBERG EXV-25 CARBURETOR

STROMBERG NO A-18752 (CODE NO 1-82)

SIZE· 1-1/4″ D D S A E 2-11/16′ FLANGE CENTERS

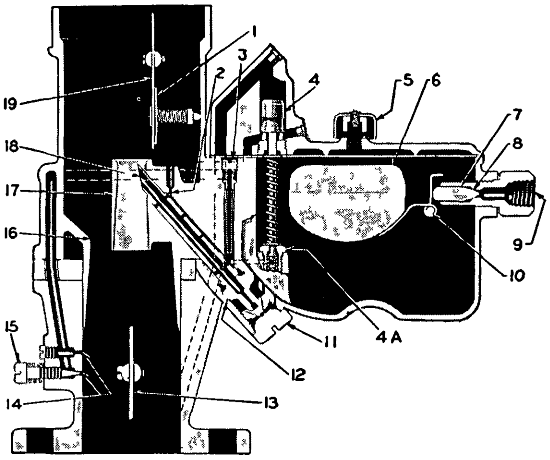
REPLACE WITH BXV-25 A-19092

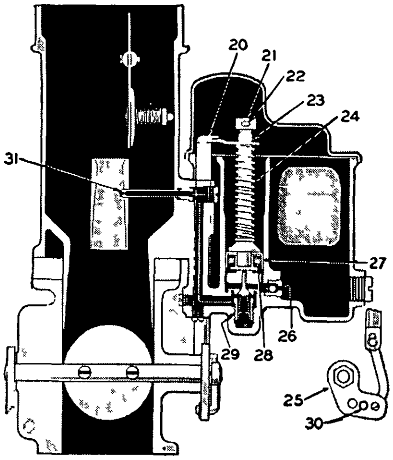
STANDARD
EXV-25

(Without Dome High Speed Bleeder)

PARTS ILLUSTRATED

1 Poppet Valve
2 High Speed Bleeder
3 Idle Tube
4 Vacuum Power Piston
4a Power By Pass Jet
5 Float Chamber Vent
6 Float
7 Float Needle Valve
8 Float Needle Valve Seat
9 Gasoline Inlet
10 Float Fulcrum Pin
11 Main Discharge Jet Plug
12 Main Metering Jet
13 Throttle Valve
14 Idle Discharge Holes
15 Idle Needle Valve
16 Primary Venturi
17 Auxiliary Venturi
18 Main Discharge Jet
19 Choke Valve
20 Pump Rod
21 Pump Adjustment Nut
22 Cotter Pin
23 Piston Connecting Rod
24 Pump Duration Spring
25 Pump Lever





26 Pump Inlet Check Valve
27 Pump Piston
28 Pump Piston Expan Spring
29 Accel Pump By Pass Jet
30 Pump Lever Link
31 Pump Discharge Nozzle

Note—Specifications below are for latest production; previous major changes listed on parts page.

FUEL LEVEL—Measure **5/8″** below top surface of float chamber (without gasket) at 3 lbs pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level).

MAIN METERING SYSTEM—Venturi **1-3/32″**; Main Discharge Jet **No. 28-36** P-18226 (**Tool T-24967**); High Speed Bleeder **No. 70** in body Main Metering Jet **.058″** P-17004 (**Tool T-23844**); P-23232 **.055″** Adjustable Metering Jet Main metering system controls the flow of fuel up to approximately 65 to 70 M P H

POWER SYSTEM—Power By Pass Jet **No. 56** P-21657, Power jet to come into operation at **4″** to **6″** of manifold vacuum, which is approximately 65 to 70 M P H (**Tool T-24733**) used to remove vacuum power piston.

ACCELERATION—Pump Discharge Nozzle **No. 70** P-17020, Pump By Pass Jet **4 No. 56** P-21076, Pump capacity **11** to **15** c c per 10 fast strokes, and **15** to **19** c c per 10 slow strokes with pump rod link set in middle setting (**Tool T-24972**) Pump action takes place during acceleration period only

IDLE SYSTEM—Idle Discharge holes **Nos. 56-58.** With throttle valve fully closed and **No. 58** drill in idle hole, edge of valve is located **.018″** + — **.004″** from **No. 58** drill, Idle Air Bleed **No. 53** P-15477, Idle Tube **No. 70** P-19424 Adjustment Adjust to smooth running, OUT to make richer and IN to make leaner, throttle at 7 to 8 M P H.

THERMOSTAT SETTING—Set thermostat **12** graduations rich from (0 mark)

VACUUM SPARK CONTROL—With throttle fully closed and **No. 50** drill in spark hole, edge of valve is located **Flush** from **No. 50** drill

FLANGE GASKET—P 4752

SPECIAL TOOLS REQUIRED—T-24733 Float Adj. and power piston wrench T-24967 Main Discharge Jet Remover, T-23844 Main Metering Jet Wrench; T 24970 By Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burrette Gauge, T-24968 Handle

MOTOR TUNE-UP DATA

SPARK PLUG—
Clean and adjust at regular intervals.

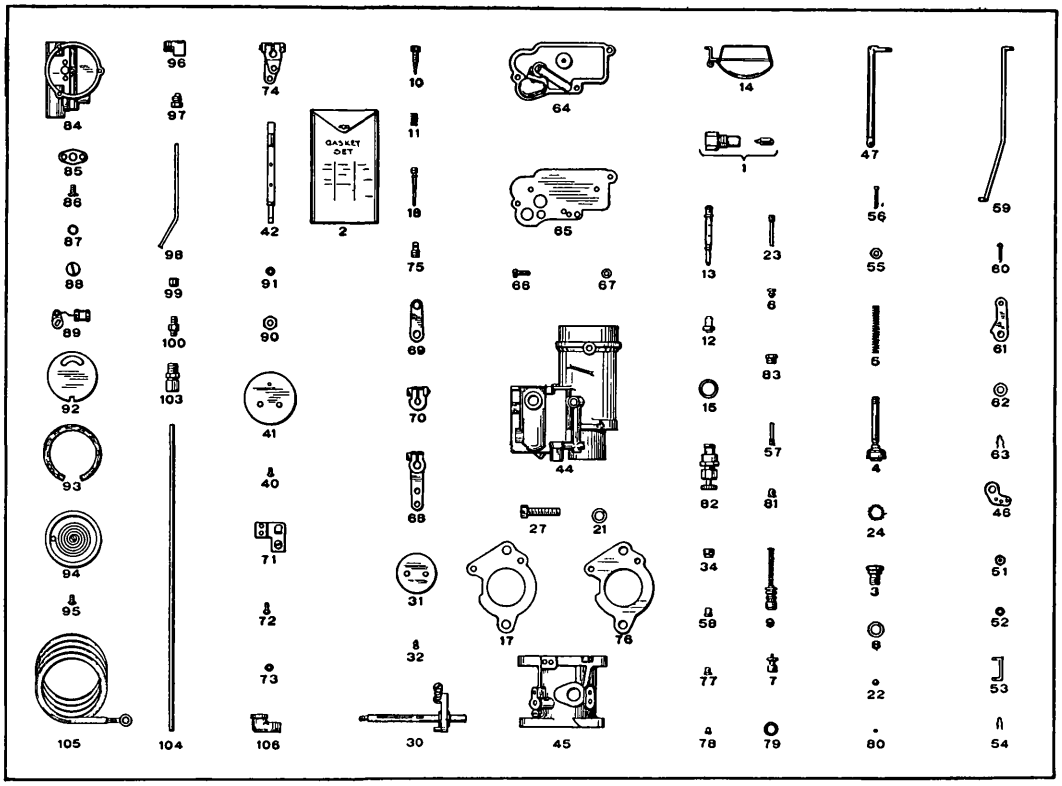
DISTRIBUTOR—Set breaker gap. Replace points if necessary.

IGNITION TIMING—Use timing light.

VALVES—Intake: Exhaust: Adjust with engin hot.

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No.	Part No	Part Name	
	1	**P-20774**	Float Needle Valve and Seat 086"	**(NOT VAR)**
	2	**J-5329-G**	Complete Gasket Set	
	3	**P-23228**	Pump By Pass Jet No 56	**(NOT VAR)**
	4	**P-19167**	Pump Piston and Link (Complete)	
	5	**P-20666**	Spring—Pump Duration	
	6	**P-18144**	Pump Inlet Check Valve	
	7	**P-21657**	Power By Pass Jet No 61	**(NOT VAR)**
	8	**P-6855**	Gasket—Pump By Pass Jet	
	9	**P-21074**	Vacuum Power Piston	
	10	**P-17402**	Idle Needle Valve	
	11	**P-15481**	Spring—Idle Needle Valve	
	12	**P-17004**	Metering Jet **055"**	**(VAR)**
	13	**P-18226**	Main Discharge Jet No 28 36	**(NOT VAR)**
	14	**P-21663**	Float with Lever	
	15	**P-10666**	Gasket—Float N V Seat and Adj Met Jet	
	17	**P-21654**	Gasket—Main Body	
	18	**P-19424**	Idle Tube No 70	**(NOT VAR)**
	21	**P-8838**	Lockwasher—Main Body Attach Screw	
	22	**P-18772**	Lead Ball—3/16"	
	23	**P-18125**	Screw—Float Fulcrum	
	24	**P-16960**	Spring—Pump Piston Leather Expansion	
	27	**P-23422**	Screw—Main Body Attach	
	30	**P-23166**	Throttle Stop and Stem	
		P-15456	Screw—Throttle Stop	
		P-15831	Spring—Throttle Stop Screw	
	31	**P-6454**	Throttle Valve **(20°)**	**(VAR)**
	32	**P-16717**	Screw—Throttle Valve Attach	
	34	**P-6184**	Plug—Check Valve Channel	
	40	**P-22573**	Screw—Choke Valve Attach	
	41	**P-23140**	Choke Valve	
	42	**P-23082**	Choke Stem	
	44	**P-23078**	Main Body **1-3/32"** Venturi **No 70** High Speed Bleed	**(VAR)**
	45	**P-23079**	Throttle Body—**No 56-58** Idle Disch Hole **No 50** Spark Hole	**(VAR)**
		P-19370	Pin—Fast Idle Lever Fulcrum	
	46	**P-20628**	Pump Lever	
	47	**P-19165**	Pump Rod	
	51	**P-2290**	Nut—Pump Lever Attach	
	52	**P-1791**	Lockwasher—Pump Lever Attach Nut	
	53	**P-20203**	Link—Pump Lever	
	54	**P-19374**	Cotter Pin—Pump Link	
	55	**P-18135**	Nut—Pump Rod	
	56	**P-4**	Cotter Pin—Pump Rod Nut and Thermostat Attach	
	57	**P-14358**	Nozzle—Pump Disch **No. 70**	**(VAR)**
	58	**P-21053**	Plug—Pump Channel	
	59	**P-22724**	Rod—Fast Idle	
	60	**112-S-22**	Cotter Pin—Fast Idle Rod	
	61	**P-22723**	Lever—Fast Idle	
	62	**P-12400**	Washer—Fast Idle Lever	
	63	**P-21338**	Cotter Pin—Fast Idle Lever (Slotted Fulcrum Pin)	
		P-7170	Cotter Pin—Use with Fulcrum Pin with Hole	
	64	**P-21067**	Cover—Float	
		P-17828	Float Vent Cap	
		P-9802	Float Vent Cap Attach Rivet	
	65	**P-21068**	Gasket—Float Cover	
	66	**P-2266**	Screw—Float Cover Attach	
	67	**P-12167**	Lockwasher—Float Cover Attach Screw	
	68	**P-23215**	Throttle Lever	
		P-23216	Lever	
		P-3199	Lever Clamp Screw	
	69	**P-15424**	Throttle Loose Lever	
		P-9270	Wire Connecting Screw	
	70	**P-16487**	Throttle Loose Lever Stop	
		P-16486	Stop	
		P-18769	Stop Clamp Screw	
		P-18299	Stop Clamp Screw Nut	
	71	**P-23209**	Throttle Tube Holder (Assy)	
		P-23210	Holder	
		P-11561	Holder Clamp	
		P-12868	Holder Clamp Screw	
		P-8806	Holder Clamp Screw Nut	
	72	**P-15259**	Screw—Throttle Tube Holder Attach	
	73	**P-1693**	Lockwasher—Throttle Tube Holder Attach Screw	
	74	**P-22722**	Choke Lever	
		P-22726	Lever	
		P-18300	Lever Clamp Screw	
		P-18299	Lever Clamp Screw Nut	
	75	**P-15477**	Idle Air Bleeder **No 53**	**(VAR)**
	76	**P-21655**	Insulator—Main Body	
	77	**P-15459**	Plug—Idle Disch Drilling Hole	
	78	**P-15458**	Plug—Idle Disch Hole	
	79	**P-19448**	Gasket—Power By Pass Jet	
	80	**P-19983**	Lead Balls—1/8"	
	81	**P-7098**	Plug—Vacuum Channel	
	82	**P-23232**	Adjustable Metering Jet **055"**	**(VAR)**
	83	**P-3292**	Plug—Spark Vacuum Channel	
	84	**P-23084**	Thermostat Housing	
	85	**P-23053**	Gasket—Thermostat Housing Boss	
	86	**P-23122**	Screw—Thermostat Housing Attach	
	87	**P-15346**	Lockwasher—Thermostat Housing Attach Screw	
	88	**P-11348**	Plug—Vacuum Piston Channel	
	89	**P-23064**	Vacuum Piston Link and Lever	
	90	**P-16571**	Nut—Vac Piston Link and Lever Attach	
	91	**P-15875**	Lockwasher—Vac Piston Link and Lever Attach Nut	
	92	**P-23051**	Plate—Electric Unit Baffle	
	93	**P-23052**	Insulator—Electric Unit	
	94	**P-23432**	Assy —Thermostat and Electric Unit	
		P-21507	Thermostat	
		P-23124	Electric Unit	
	95	**P-21596**	Screw—Thermostat and Electric Unit Attach	
	96	**P-23142**	Nut—Elbow—Vacuum	
	97	**P-23141**	Nipple—Elbow—Vacuum Tube	
	98	**P-23077**	Tube—Vacuum	
	99	**P-23072**	Nut—Vacuum Tube	
	100	**P-23071**	Nipple—Vacuum Tube	

EXTRA PARTS FURNISHED WITH EACH CARBURETOR

	103	**P-16318**	Compression Union
	104	**P-22394**	Tubing—Copper
	105	**P-21987**	Auto Choke Wire
	106	**P-2714**	Street Elbow

BENDIX PRODUCTS DIVISION

SOUTH BEND **OF BENDIX AVIATION CORPORATION** **INDIANA**

Printed in U S A

STROMBERG EXV-2 CARBURETOR

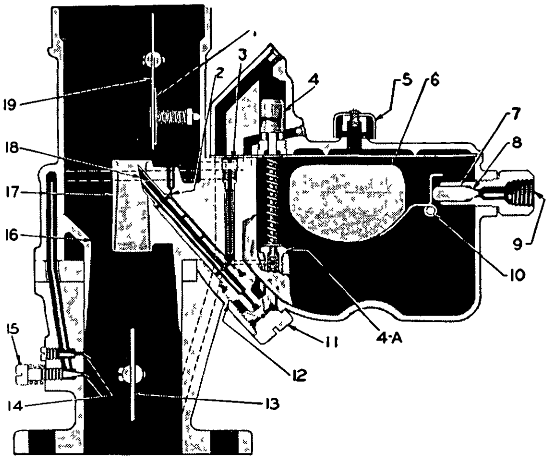
STROMBERG NO. A-18762 (CODE NO. 1-83A)

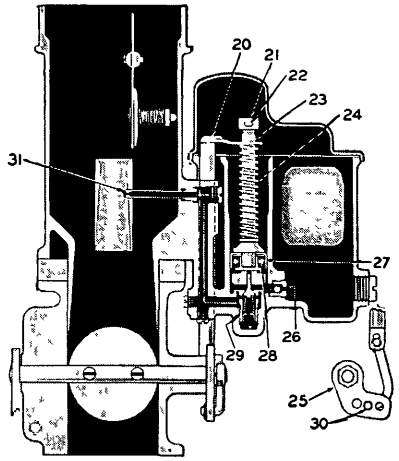
SIZE: 1-1/4″ D. D. S.A.E. 2-11/16″ FLANGE CENTERS

STANDARD
EXV-2
(New Style)
(With Dome High Speed Bleeder)

PARTS ILLUSTRATED

1. Poppet Valve
2 High Speed Bleeder
3 Idle Tube
4 Vacuum Power Piston
4a Power By-Pass Jet
5 Float Chamber Vent
6. Float
7 Float Needle Valve
8. Float Needle Valve Seat
9 Gasoline Inlet
10 Float Fulcrum Pin
11. Main Discharge Jet Plug
12 Main Metering Jet
13 Throttle Valve
14 Idle Discharge Holes
15 Idle Needle Valve
16 Primary Venturi
17. Auxiliary Venturi
18 Main Discharge Jet
19 Choke Valve
20. Pump Rod
21 Pump Adjustment Nut
22. Cotter Pin
23. Piston Connecting Rod
24 Pump Duration Spring
25 Pump Lever





26. Pump Inlet Check Valve
27. Pump Piston
28 Pump Piston Expan. Spring
29. Accel Pump By-Pass Jet
30 Pump Lever Link
31 Pump Discharge Nozzle

Note—Specifications below are for latest production; previous major changes listed on parts page.

FUEL LEVEL—Measure **5/8″** below top surface of float chamber (without gasket) at 3 lbs. pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level).

MAIN METERING SYSTEM—Venturi **1-1/32″**; Main Discharge Jet **No. 28-36** P-23884 (**Tool T-24967**); High Speed Bleeder **No. 70** P-22764. Main Metering Jet **.052″** P-17004 (**Tool T-23844**); P-23232 **.052″** Adjustable Metering Jet. Main metering system controls the flow of fuel up to approximately 65 to 70 M.P.H.

POWER SYSTEM—Power By-Pass Jet **No. 61** P-21198; Power jet to come into operation at **4″** to **6″** of manifold vacuum, which is approximately 65 to 70 M.P.H. (**Tool T-24733**) used to remove vacuum power piston.

ACCELERATION—Pump Discharge Nozzle **No. 70** P-14358; Pump By-Pass Jet **4 No. 56** P-23228; Pump capacity **11** to **15** c.c. per 10 fast strokes, and **15** to **19** c.c. per 10 slow strokes with pump rod link set in middle setting. (**Tool T-24972**) Pump action takes place during acceleration period only.

IDLE SYSTEM—Idle Discharge holes **Nos. 56-58.** With throttle valve fully closed and **No. 58** drill in idle hole, edge of valve is located **.018″** + — **.004″** from **No. 58** drill; Idle Air Bleed **No. 54** P-15477; Idle Tube **No. 70** P-19424. Adjustment: Adjust to smooth running, OUT to make richer and IN to make leaner; throttle at 7 to 8 M.P.H.

VACUUM SPARK CONTROL—With throttle fully closed and **No. 50** drill in spark hole, edge of valve is located **Flush** from **No. 50** drill. Drill **1 No. 60** hole at random below throttle valve when fully closed.

FLANGE GASKET—P-4752.

SPECIAL TOOLS REQUIRED—T-24733 Float. Adj. and power piston wrench T-24967 Main Discharge Jet Remover; T-23844 Main Metering Jet Wrench; T-24970 By-Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burrette Gauge; T-24968 Handle.

MOTOR TUNE-UP DATA

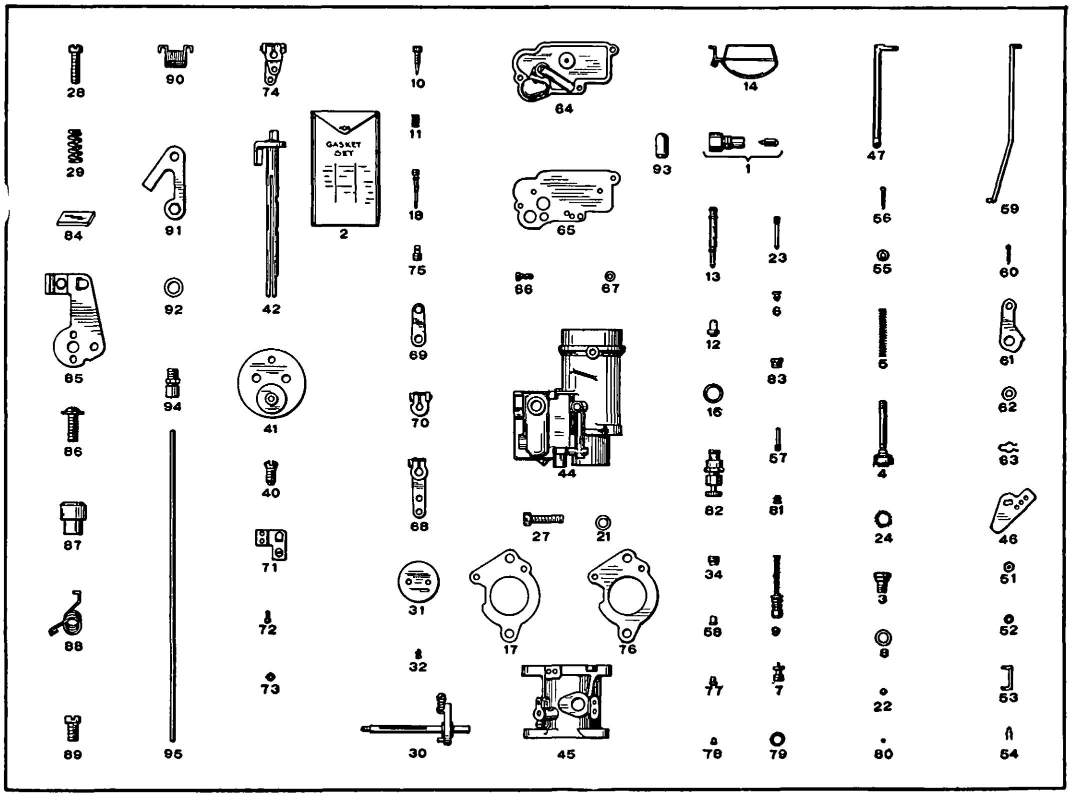
SPARK PLUG—
Clean and adjust at regular intervals.

DISTRIBUTOR—Set breaker gap. Replace points if necessary.

IGNITION TIMING—Use timing light.

VALVES—Intake: Exhaust: Adjust with engine hot.

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No.	Part No	Part Name	
	1	**P-20774**	Float Needle Valve and Seat 086"	**(NOT VAR)**
	2	**J-4608-G**	Complete Gasket Set	
	3	**P-23228**	Pump By Pass Jet No 56	**(NOT VAR)**
	4	**P-19167**	Pump Piston and Stem (Complete)	
	5	**P-18215**	Spring—Pump Duration	
	6	**P-18144**	Pump Inlet Check Valve	
	7	**P-21198**	Power By Pass Jet No 61	**(NOT VAR)**
	8	**P-6855**	Gasket—By Pass Jet—Pump	
	9	**P-21074**	Vacuum Power Piston	
	10	**P-17402**	Idle Needle Valve	
	11	**P-15481**	Spring—Idle Needle Valve	
	12	**P-17004**	Metering Jet **052"**	**(VAR)**
	13	**P-23884**	Main Discharge Jet No 28 36	**(NOT VAR)**
	14	**P-21663**	Float with Lever	
	15	**P-10666**	Gasket—Float N V Seat and Adj Met Jet	
	17	**P-21654**	Gasket—Main Body	
	18	**P-19424**	Idle Tube No 70	**(NOT VAR)**
	21	**P-8838**	Lockwasher—Main Body Attach Screw	
	22	**P-18772**	Lead Ball	
	23	**P-18125**	Screw—Fulcrum—Float Lever	
	24	**P-16960**	Spring—Pump Piston Leather Expansion	
	27	**P-23422**	Screw—Main Body Attach	
	28	**P-15456**	Screw—Throttle Stop	
	29	**P-15831**	Spring—Throttle Stop Screw	
	30	**P-23166**	Throttle Stop and Stem	
	31	**P-6454**	Throttle Valve (20°)	**(VAR)**
	32	**P-16717**	Screw—Throttle Valve Attach	
	34	**P-6184**	Plug—Check Valve	
	40	**P-4522**	Screw—Choke Valve Attach	
	41	**P-21662**	Choke Valve	
	42	**P-21716**	Choke Stem and Stop	
	44	**P-23886**	Main Body **1-1/32"** Venturi **No. 70** High Speed Bleeder	**(VAR)**
	45	**P-23222**	Throttle Body—**No 56-58** Idle Disch Holes **Nos. 50** and 60 Spark Hole	**(VAR)**
		P-19370	Pin—Fast Idle Lever Fulcrum	
	46	**P-23666**	Pump Lever	
	47	**P-19165**	Pump Rod	
	51	**P-2290**	Nut—Pump Lever Attach	
	52	**P-1791**	Lockwasher—Pump Lever Attach Screw	
	53	**P-20203**	Pump Link	
	54	**P-19374**	Cotter Pin—Pump Link	
	55	**P-18135**	Nut—Pump Stem Adj	
	56	**P-4**	Cotter Pin—Pump Stem Adj Nut	
	57	**P-14358**	Nozzle—Pump Disch **No 70**	**(VAR)**
	58	**P-21053**	Plug—Pump Disch Channel	
	59	**P-22724**	Rod—Fast Idle	
	60	**112-S-22**	Cotter Pin—Fast Idle Rod	
	61	**P-22723**	Lever—Fast Idle	
	62	**P-12400**	Washer—Fast Idle Lever	
	63	**P-21338**	Cotter Pin—Fast Idle Lever	
	64	**P-21067**	Float Chamber Cover	
		P-17828	Vent Cap	
		P-9802	Vent Cap Attach Rivet	
	65	**P-21068**	Gasket—Float Cover	
	66	**P-2266**	Screw—Float Chamber Cover Attach	
	67	**P-12167**	Lockwasher—Float Chamber Cover Attach Screw	
	68	**P-23215**	Throttle Lever	
		P-3199	Lever Clamp Screw	
	69	**P-15424**	Throttle Loose Lever	
		P-9270	Wire Connector Screw	
	70	**P-16847**	Throttle Loose Lever Stop	
		P-16486	Stop	
		P-9025	Stop Clamp Screw	
		P-4517	Stop Clamp Screw Nut	
	71	**P-23209**	Throttle Tube Holder	
		P-23210	Holder	
		P-11561	Holder Clamp	
		P-12868	Holder Clamp Screw	
		P-8806	Holder Clamp Screw Nut	
	72	**P-15259**	Screw—Throttle Tube Holder Attach	
	73	**P-1693**	Lockwasher—Throttle Tube Holder Attach Screw	
	74	**P-22722**	Choke Lever	
		P-22726	Lever	
		P-18300	Lever Clamp Screw	
		P-18299	Lever Clamp Screw Nut	
	75	**P-15477**	Idle Air Bleed **No 54**	**(VAR.)**
	76	**P-21655**	Insulator—Main Body	
	77	**P-15459**	Plug—Idle Disch Drilling Hole	
	78	**P-15458**	Plug—Idle Disch Hole	
	79	**P-19448**	Gasket—Power By Pass Jet	
	80	**P-19983**	Lead Ball—1/8"	
	81	**P-7098**	Plug—Vacuum Suction Channel	
	82	**P-23232**	Adjustable Metering Jet **052"**	**(VAR)**
	83	**P-3292**	Plug—1/8" Pipe (Throttle Body)	
	84	**P-21719**	Block—Choke Stem	
	85	**P-17067**	Choke Tube Holder	
		P-17051	Holder	
		P-11561	Clamp	
		P-12868	Screw	
		P-8806	Nut	
	86	**P-17059**	Screw—Choke Lever Fulcrum	
	87	**P-17058**	Bushing—Choke Lever Fulcrum	
	88	**P-17068**	Spring—Choke Valve Return	
	89	**P-17093**	Screw—Choke Tube Holder Attach	
	90	**P-17132**	Spring—Choke Lever Return	
	91	**P-17053**	Choke Lever	
		P-12867	Wire Conn Screw	
	92	**P-4735**	Washer—Choke Stem	
	93	**P-22764**	High Speed Bleeder **No 70**	**(VAR)**

PARTS FURNISHED EXTRA WITH EACH CARBURETOR—SENT SEPARATE

94	**P-16318**	Union	
95	**P-22394**	Copper Tubing	

BENDIX PRODUCTS DIVISION

SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

Printed in U S A

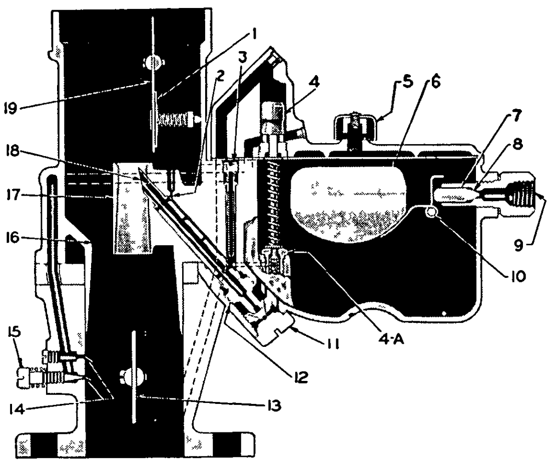
STROMBERG EXV-2 CARBURETOR

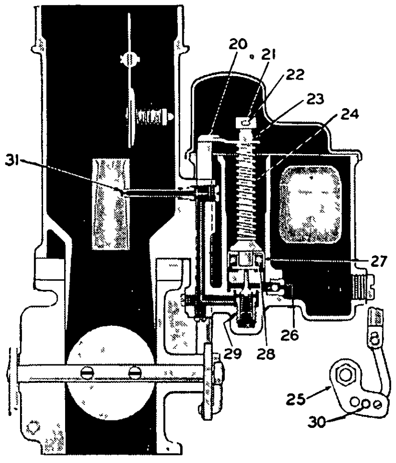
STROMBERG NO. A-18762 (CODE NO. 1-83)

SIZE: 1-1/4″ D. D. S.A.E. 2-11/16″ FLANGE CENTERS

PARTS ILLUSTRATED

1. Poppet Valve
2. High Speed Bleeder
3. Idle Tube
4. Vacuum Power Piston
4a. Power By-Pass Jet
5. Float Chamber Vent
6. Float
7. Float Needle Valve
8. Float Needle Valve Seat
9. Gasoline Inlet
10. Float Fulcrum Pin
11. Main Discharge Jet Plug
12. Main Metering Jet
13. Throttle Valve
14. Idle Discharge Holes
15. Idle Needle Valve
16. Primary Venturi
17. Auxiliary Venturi
18. Main Discharge Jet
19. Choke Valve
20. Pump Rod
21. Pump Adjustment Nut
22. Cotter Pin
23. Piston Connecting Rod
24. Pump Duration Spring
25. Pump Lever





26. Pump Inlet Check Valve
27. Pump Piston
28. Pump Piston Expan. Spring
29. Accel. Pump By-Pass Jet
30. Pump Lever Link
31. Pump Discharge Nozzle

Note—Specifications below are for latest production; previous major changes listed on parts page.

FUEL LEVEL—Measure **5/8″** below top surface of float chamber (without gasket) at 3 lbs. pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level).

MAIN METERING SYSTEM — Venturi **1-1/32″**; Main Discharge Jet **No. 28-36** P-18226 (**Tool T-24967**); High Speed Bleeder **No. 70** in body. Main Metering Jet **.051″** P-17004 (**Tool T-23844**); P-23232 **.051″** Adjustable Metering Jet. Main metering system controls the flow of fuel up to approximately 65 to 70 M.P.H.

POWER SYSTEM—Power By-Pass Jet **No. 61** P-21198; Power jet to come into operation at **4″** to **6″** of manifold vacuum, which is approximately 65 to 70 M.P.H. (**Tool T-24733**) used to remove vacuum power piston.

ACCELERATION—Pump Discharge Nozzle **No. 70** P-14358; Pump By-Pass Jet **4 No. 56** P-23228; Pump capacity **11** to **15** c.c. per 10 fast strokes, and **15** to **19** c.c. per 10 slow strokes with pump rod link set in middle setting. (**Tool T-24972**) Pump action takes place during acceleration period only.

IDLE SYSTEM—Idle Discharge holes **Nos. 56-58.** With throttle valve fully closed and **No. 58** drill in idle hole, edge of valve is located **.018″** + — **.004″** from **No. 58** drill; Idle Air Bleed **No. 54** P-15477; Idle Tube **No. 70** P-19424. Adjustment: Adjust to smooth running, OUT to make richer and IN to make leaner; throttle at 7 to 8 M.P.H.

VACUUM SPARK CONTROL—With throttle fully closed and **No. 50** drill in spark hole, edge of valve is located **Flush** from **No. 50** drill.

FLANGE GASKET—P-4752.

SPECIAL TOOLS REQUIRED—T-24733 Float. Adj. and power piston wrench T-24967 Main Discharge Jet Remover; T-23844 Main Metering Jet Wrench; T-24970 By-Pass Jet and Check Valve Tester; T-24972 Pump Capacity Burrette Gauge; T-24968 Handle.

MOTOR TUNE-UP DATA

SPARK PLUG—
Clean and adjust at regular intervals.

DISTRIBUTOR—Set breaker gap. Replace points if necessary.

IGNITION TIMING—Use timing light.

VALVES—Intake: Exhaust: Adjust with engine hot.

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

STROMBERG EXV-2 CARBURETOR

STROMBERG NO. A-18772 (CODE NO. 1-84A)

SIZE 1-1/4" D. D S.A.E 2-11/16" FLANGE CENTERS

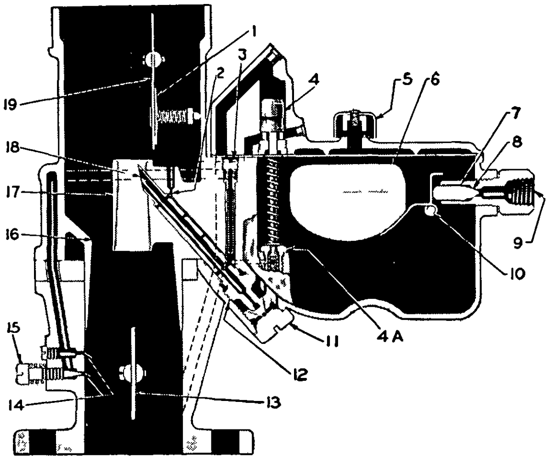
REPLACE WITH BXV-2 A-19082

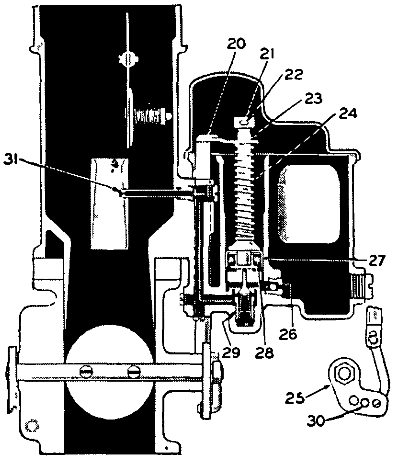
STANDARD
EXV-2

(New Style)
(With Dome High Speed
Bleeder)

PARTS ILLUSTRATED

1	Poppet Valve
2	High Speed Bleeder
3	Idle Tube
4	Vacuum Power Piston
4a	Power By Pass Jet
5	Float Chamber Vent
6	Float
7	Float Needle Valve
8	Float Needle Valve Seat
9	Gasoline Inlet
10	Float Fulcrum Pin
11	Main Discharge Jet Plug
12	Main Metering Jet
13	Throttle Valve
14	Idle Discharge Holes
15	Idle Needle Valve
16	Primary Venturi
17	Auxiliary Venturi
18	Main Discharge Jet
19	Choke Valve
20	Pump Rod
21	Pump Adjustment Nut
22	Cotter Pin
23	Piston Connecting Rod
24	Pump Duration Spring
25	Pump Lever
26	Pump Inlet Check Valve
27	Pump Piston
28	Pump Piston Expan Spring
29	Accel Pump By Pass Jet
30	Pump Lever Link
31	Pump Discharge Nozzle





Note—Specifications below are for latest production; previous major changes listed on parts page.

FUEL LEVEL—Measure **5/8"** below top surface of float chamber (without gasket) at 3 lbs pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level).

MAIN METERING SYSTEM — Venturi **1-3/32"**; Main Discharge Jet **No. 28-36** P-23884 (**Tool T-24967**); High Speed Bleeder **No. 70** P-22764. Main Metering Jet **.057"** P-17004 (**Tool T-23844**); P-23232 **.057"** Adjustable Metering Jet Main metering system controls the flow of fuel up to approximately 65 to 70 M P H.

POWER SYSTEM—Power By-Pass Jet **No. 55** P-23676; Power jet to come into operation at **4"** to **6"** of manifold vacuum, which is approximately 65 to 70 M P.H (**Tool T-24733**) used to remove vacuum power piston.

ACCELERATION—Pump Discharge Nozzle **No. 70** P-17020; Pump By-Pass Jet **4 No. 56** P-21076, Pump capacity **11** to **15** c.c. per 10 fast strokes, and **15** to **19** c c. per 10 slow strokes with pump rod link set in middle setting (**Tool T-24972**) Pump action takes place during acceleration period only

IDLE SYSTEM—Idle Discharge holes **Nos. 56-58.** With throttle valve fully closed and **No. 58** drill in idle hole, edge of valve is located **.018" + — .004"** from **No. 58** drill, Idle Air Bleed **No. 53** P-15477, Idle Tube **No. 70** P-19424. Adjustment. Adjust to smooth running, OUT to make richer and IN to make leaner, throttle at 7 to 8 M P H.

VACUUM SPARK CONTROL—With throttle fully closed and **No. 50** drill in spark hole, edge of valve is located **Flush** from **No. 50** drill. Drill **1 No. 60** hole at random below throttle valve when fully closed

FLANGE GASKET—P-4752.

SPECIAL TOOLS REQUIRED—T-24733 Float Adj and power piston wrench T-24967 Main Discharge Jet Remover, T-23844 Main Metering Jet Wrench, T-24970 By-Pass Jet and Check Valve Tester, T-24972 Pump Capacity Burrette Gauge, T-24968 Handle.

MOTOR TUNE-UP DATA

SPARK PLUG—
Clean and adjust at regular intervals.

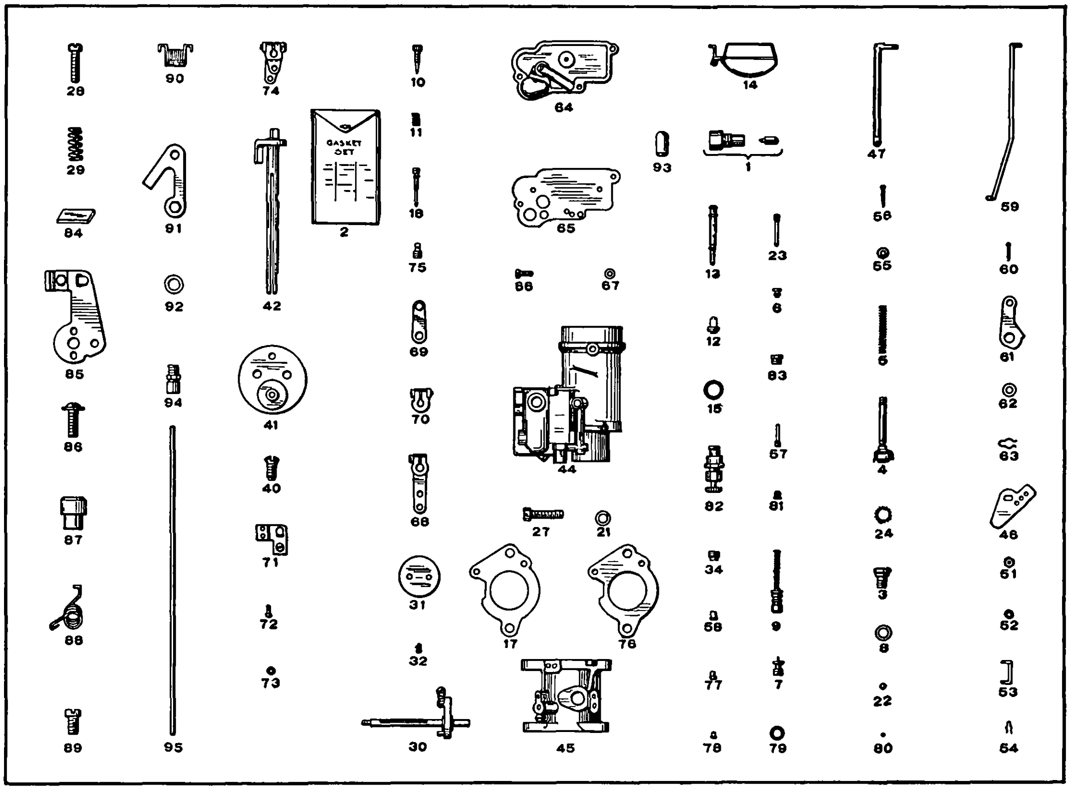
DISTRIBUTOR—Set breaker gap. Replace points if necessary.

IGNITION TIMING—Use timing light.

VALVES—Intake: Exhaust: Adjust with engine hot.

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No	Part No	Part Name	
	1	P-20774	Float Needle Valve and Seat 086′	(NOT VAR)
	2	J-4608-G	Complete Gasket Set	
	3	P-21076	Pump By Pass Jet No 56	(NOT VAR)
	4	P-19167	Pump Piston and Stem (Complete)	
	5	P-18215	Spring—Pump Duration	
	6	P-18144	Pump Inlet Check Valve	
	7	P 23676	Power By Pass Jet No 55	(NOT VAR)
	8	P-6855	Gasket—By Pass Jet	
	9	P-21074	Vacuum Power Piston	
	10	P-17402	Idle Needle Valve	
	11	P-15481	Spring—Idle Needle Valve	
	12	P-17004	Metering Jet **057**	(VAR)
	13	P-23884	Main Discharge Jet No 28 36	(NOT VAR)
	14	P-21663	Float with Lever	
	15	P-10666	Gasket—Float N V Seat and Adj Met Jet	
	17	P-21654	Gasket—Main Body	
	18	P-19424	Idle Tube No 70	(NOT VAR)
	21	P-8838	Lockwasher—Main Body Attach Screw	
	22	P-18772	Lead Ball	
	23	P-18125	Screw—Fulcrum—Float Lever	
	24	P-16960	Spring—Pump Piston Leather Expansion	
	27	P-23422	Screw—Main Body Attach	
	28	P-15456	Screw—Throttle Stop	
	29	P-15831	Spring—Throttle Stop Screw	
	30	P-23166	Throttle Stop and Stem	
	31	P-6454	Throttle Valve (20°)	(VAR)
	32	P-16717	Screw—Throttle Valve Attach	
	34	P-6184	Plug—Check Valve	
	40	P-4522	Screw—Choke Valve Attach	
	41	P-21662	Choke Valve	
	42	P-21716	Choke Stem and Stop	
	44	P-23886	Main Body **1-3/32′** Venturi **No 70** High Speed Bleeder	(VAR)
	45	P-23222	Throttle Body—**No 56-58** Idle Disch Holes **Nos 50** and **60** Spark Hole	(VAR)
		P-19370	Pin—Fast Idle Lever Fulcrum	
	46	P 23666	Pump Lever	
	47	P-19165	Pump Rod	
	51	P-2290	Nut—Pump Lever Attach	
	52	P-1791	Lockwasher—Pump Lever Attach Nut	
	53	P-20203	Pump Link	
	54	P-19374	Cotter Pin—Pump Link	
	55	P-18135	Nut—Pump Stem Adj	
	56	P-4	Cotter Pin—Pump Stem Adj Nut	
	57	P-17020	Nozzle—Pump Disch **No 70**	(VAR)
	58	P-21053	Plug—Pump Disch Channel	
	59	P-22724	Rod—Fast Idle	
	70	112-S-22	Cotter Pin—Fast Idle Rod	
	61	P-22723	Lever—Fast Idle	
	62	P-12400	Washer—Fast Idle Lever	
	63	P-21338	Cotter Pin—Fast Idle Lever	
	64	P-21067	Float Chamber Cover	
		P-17828	Vent Cap	
		P-9802	Vent Cap Attach Rivet	
	65	P-21068	Gasket—Float Cover	
	66	P-2266	Screw—Float Chamber Cover Attach	
	67	P 12167	Lockwasher—Float Chamber Cover Attach Screw	
	68	P-23215	Throttle Lever	
		P-3199	Lever Clamp Screw	
	69	P-15424	Throttle Loose Lever	
		P-9270	Wire Connector Screw	
	70	P-16487	Throttle Loose Lever Stop	
		P 16486	Stop	
		P-9025	Stop Clamp Screw	
		P-4517	Stop Clamp Screw Nut	
	71	P-23209	Throttle Tube Holder	
		P-23210	Holder	
		P-11561	Holder Clamp	
		P-12868	Holder Clamp Screw	
		P-8806	Holder Clamp Screw Nut	
	72	P-15259	Screw—Throttle Tube Holder Attach	
	73	P-1693	Lockwasher—Throttle Tube Holder Attach Screw	
	74	P-22722	Choke Lever	
		P-22726	Lever	
		P-18300	Lever Clamp Screw	
		P-18299	Lever Clamp Screw Nut	
	75	P-15477	Idle Air Bleed **No 53**	(VAR)
	76	P-21655	Insulator—Main Body	
	77	P-15459	Plug—Idle Disch Drilling Hole	
	78	P-15458	Plug—Idle Disch Hole	
	79	P-19448	Gasket—Power By Pass Jet	
	80	P-19983	Lead Ball—1/8′	
	81	P-7098	Plug—Vacuum Suction Channel	
	82	P-23232	Adjustable Metering Jet **057′**	(VAR)
	83	P-3292	Plug—1/8′ Pipe (Throttle Body)	
	84	P 21719	Block—Choke Stem	
	85	P-17067	Choke Tube Holder	
		P-17051	Holder	
		P-11561	Clamp	
		P-12868	Screw	
		P-8806	Nut	
	86	P-17059	Screw—Choke Lever Fulcrum	
	87	P 17058	Bushing—Choke Lever Fulcrum	
	88	P-17068	Spring—Choke Valve Return	
	89	P-17093	Screw—Choke Tube Holder Attach	
	90	P-17132	Spring—Choke Lever Return	
	91	P-17053	Choke Lever	
		P-12867	Wire Conn Screw	
	92	P-4735	Washer—Choke Stem	
	93	P-22764	High Speed Bleeder **No 70**	(VAR)

PARTS FURNISHED EXTRA WITH EACH CARBURETOR—SENT SEPARATE

Bin Location	Key No	Part No	Part Name
	94	P-16318	Union
	95	P-22394	Copper Tubing

BENDIX PRODUCTS DIVISION

SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

Printed in U. S A

STROMBERG EXV-2 CARBURETOR

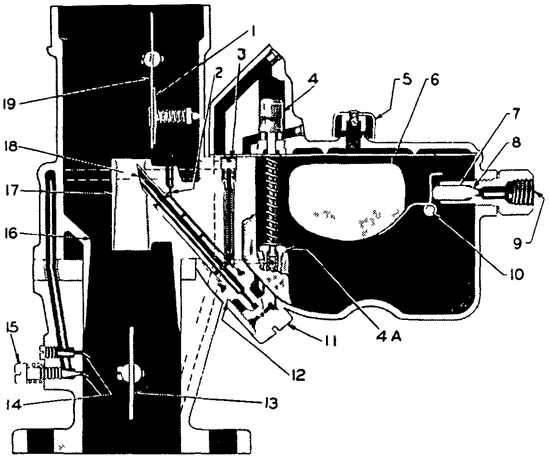
STROMBERG NO A-18772 (CODE NO. 1-84)

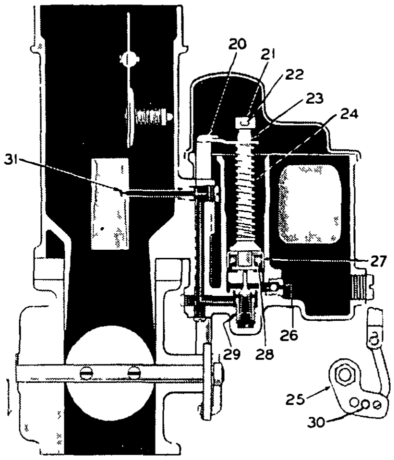
SIZE 1-1/4" D D S A E 2-11/16" FLANGE CENTER REPLACE WITH BXV-2 A-19082

STANDARD
EXV-2
(Without Dome High Speed Bleeder)

PARTS ILLUSTRATED

1 Poppet Valve
2 High Speed Bleeder
3 Idle Tube
4 Vacuum Power Piston
4a Power By Pass Jet
5 Float Chamber Vent
6 Float
7 Float Needle Valve
8 Float Needle Valve Seat
9 Gasoline Inlet
0 Float Fulcrum Pin
11 Main Discharge Jet Plug
12 Main Metering Jet
13 Throttle Valve
14 Idle Discharge Holes
15 Idle Needle Valve
16 Primary Venturi
17 Auxiliary Venturi
18 Main Discharge Jet
19 Choke Valve
20 Pump Rod
21 Pump Adjustment Nut
22 Cotter Pin
23 Piston Connecting Rod
24 Pump Duration Spring
25 Pump Lever
26 Pump Inlet Check Valve
27 Pump Piston
28 Pump Piston Expan Spring
29 Accel Pump By Pass Jet
30 Pump Lever Link
31 Pump Discharge Nozzle





Note—Specifications below are for latest production; previous major changes listed on parts page.

FUEL LEVEL—Measure **5/8"** below top surface of float chamber (without gasket) at 3 lbs pressure, (use standard depth gauge for measuring and **Tool T-24733** for changing position of float to obtain correct fuel level).

MAIN METERING SYSTEM—Venturi **1-3/32"**; Main Discharge Jet **No. 28-36** P-18226 (**Tool T-24967**); High Speed Bleeder **No. 70** in body Main Metering Jet **.055"** P-17004 (**Tool T-23844**); P-23232 **.055"** Adjustable Metering Jet Main metering system controls the flow of fuel up to approximately 65 to 70 M P H

POWER SYSTEM—Power By-Pass Jet **No. 56** P-21657, Power jet to come into operation at **4"** to **6"** of manifold vacuum, which is approximately 65 to 70 M P H (**Tool T-24733**) used to remove vacuum power piston

ACCELERATION—Pump Discharge Nozzle **No. 70** P-17020, Pump By-Pass Jet **4 No. 56** P-21076, Pump capacity **11** to **15** c c per 10 fast strokes, and **15** to **19** c c per 10 slow strokes with pump rod link set in middle setting (**Tool T-24972**) Pump action takes place during acceleration period only

IDLE SYSTEM—Idle Discharge holes **Nos. 56-58.** With throttle valve fully closed and **No. 58** drill in idle hole, edge of valve is located **.018"** + — **.004"** from **No. 58** drill Idle Air Bleed **No. 53** P-15477, Idle Tube **No. 70** P-19424 Adjustment Adjust to smooth running, OUT to make richer and IN to make leaner, throttle at 7 to 8 M P H

VACUUM SPARK CONTROL—With throttle fully closed and **No. 50** drill in spark hole, edge of valve is located **Flush** from **No. 50** drill

FLANGE GASKET—P 4752

SPECIAL TOOLS REQUIRED—T-24733 Float Adj and power piston wrench T-24967 Main Discharge Jet Remover, T-23844 Main Metering Jet Wrench, T-24970 By-Pass Jet and Check Valve Tester, T-24972 Pump Capacity Burrette Gauge, T 24968 Handle

MOTOR TUNE-UP DATA

SPARK PLUG—
Clean and adjust at regular intervals.

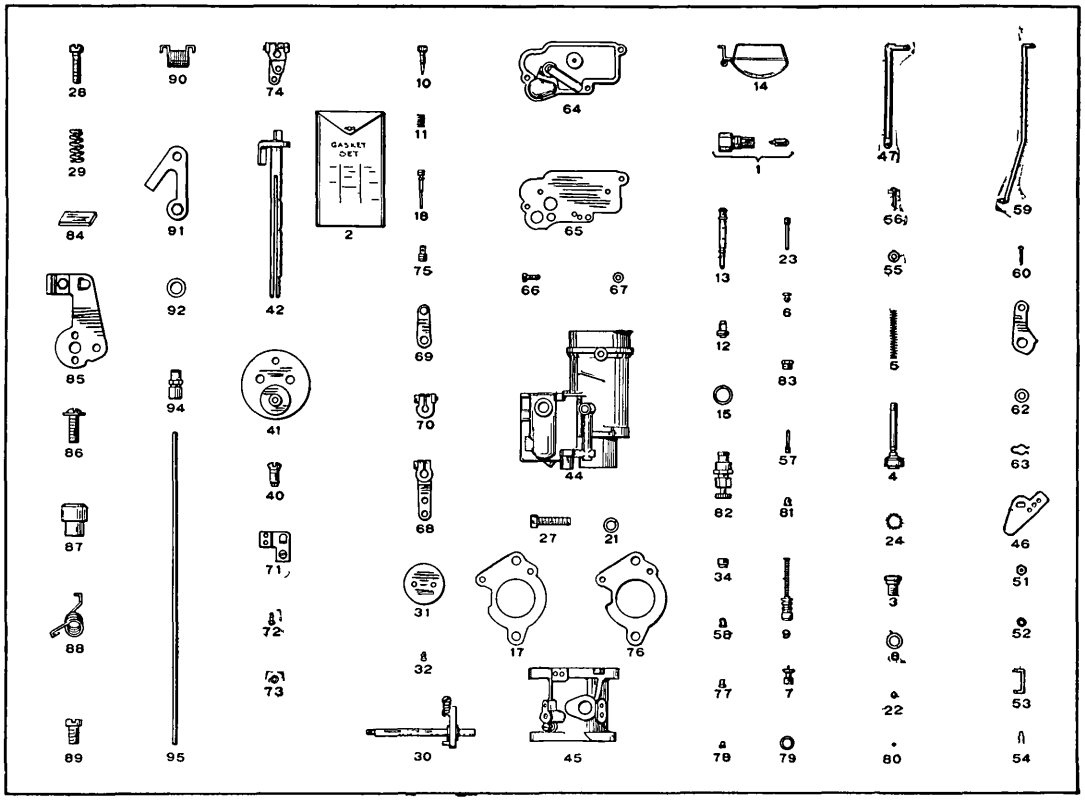
DISTRIBUTOR—Set breaker gap. Replace points if necessary.

IGNITION TIMING—Use timing light.

VALVES—Intake: Exhaust: Adjust with engine hot.

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No	Part No	Part Name	
	1	**P-20774**	Float Needle Valve and Seat 086″	**(NOT VAR)**
	2	**J-4608-G**	Complete Gasket Set	
	3	**P-21076**	Pump By Pass Jet No 56	**(NOT VAR)**
	4	**P-19167**	Pump Piston and Stem (Complete)	
	5	**P-18215**	Spring—Pump Duration	
	6	**P-18144**	Pump Inlet Check Valve	
	7	**P-21657**	Power By Pass Jet No 56	**(NOT VAR)**
	8	**P-6855**	Gasket—By Pass Jet—Pump	
	9	**P-21074**	Vacuum Power Piston	
	10	**P-17402**	Idle Needle Valve	
	11	**P-15481**	Spring—Idle Needle Valve	
	12	**P-17004**	Metering Jet **055″**	**(VAR)**
	13	**P-18226**	Main Discharge Jet No 28 36	**(NOT VAR)**
	14	**P-21663**	Float with Lever	
	15	**P-10666**	Gasket—Float N V Seat and Adj Met Jet	
	17	**P-21654**	Gasket—Main Body	
	18	**P-19424**	Idle Tube No 70	**(NOT VAR)**
	21	**P-8838**	Lockwasher—Main Body Attach Screw	
	22	**P-18772**	Lead Ball	
	23	**P-18125**	Screw—Fulcrum—Float Lever	
	24	**P-16960**	Spring—Pump Piston Leather Expansion	
	27	**P-23422**	Screw—Main Body Attach	
	28	**P-15456**	Screw—Throttle Stop	
	29	**P-15831**	Spring—Throttle Stop Screw	
	30	**P-23166**	Throttle Stop and Stem	
	31	**P-6454**	Throttle Valve (**20°**)	**(VAR)**
	32	**P-16717**	Screw—Throttle Valve Attach	
	34	**P-6184**	Plug—Check Valve	
	40	**P-4522**	Screw—Choke Valve Attach	
	41	**P-21662**	Choke Valve	
	42	**P-21716**	Choke Stem and Stop	
	44	**P-21718**	Main Body **1-3/32″** Venturi **No 70** High Speed Bleeder	**(VAR)**
	45	**P-23222**	Throttle Body—**No 56-58** Idle Disch Holes **Nos 50** and **60** Spark Hole	**(VAR)**
		P-19370	Pin—Fast Idle Lever Fulcrum	
	46	**P-23666**	Pump Lever	
	47	**P-19165**	Pump Rod	
	51	**P-2290**	Nut—Pump Lever Attach	
	52	**P-1791**	Lockwasher—Pump Lever Attach Nut	
	53	**P-20203**	Pump Link	
	54	**P-19374**	Cotter Pin—Pump Link	
	55	**P-18135**	Nut—Pump Stem Adj	
	56	**P-4**	Cotter Pin—Pump Stem Adj Nut	
	57	**P-17020**	Nozzle—Pump Disch **No 70**	**(VAR)**
	58	**P-21053**	Plug—Pump Disch Channel	
	59	**P-22724**	Rod—Fast Idle	
	60	**112-S-22**	Cotter Pin—Fast Idle Rod	
	61	**P-22723**	Lever—Fast Idle	
	62	**P-12400**	Washer—Fast Idle Lever	
	63	**P-21338**	Cotter Pin—Fast Idle Lever	
	64	**P-21067**	Float Chamber Cover	
		P-17828	Vent Cap	
		P-9802	Vent Cap Attach Rivet	
	65	**P-21068**	Gasket—Float Cover	
	66	**P-2266**	Screw—Float Chamber Cover Attach	
	67	**P-12167**	Lockwasher—Float Chamber Cover Attach Screw	
	68	**P-23215**	Throttle Lever	
		P-3199	Lever Clamp Screw	
	69	**P-15424**	Throttle Loose Lever	
		P-9270	Wire Connector Screw	
	70	**P-16487**	Throttle Loose Lever Stop	
		P-16486	Stop	
		P-9025	Stop Clamp Screw	
		P-4517	Stop Clamp Screw Nut	
	71	**P-23209**	Throttle Tube Holder	
		P-23210	Holder	
		P-11561	Holder Clamp	
		P-12868	Holder Clamp Screw	
		P-8806	Holder Clamp Screw Nut	
	72	**P-15259**	Screw—Throttle Tube Holder Attach	
	73	**P-1693**	Lockwasher—Throttle Tube Holder Attach Screw	
	74	**P-22722**	Choke Lever	
		P-22726	Lever	
		P-18300	Lever Clamp Screw	
		P-18299	Lever Clamp Screw Nut	
	75	**P-15477**	Idle Air Bleed **No 53**	**(VAR)**
	76	**P-21655**	Insulator—Main Body	
	77	**P-15459**	Plug—Idle Disch Drilling Hole	
	78	**P-15458**	Plug—Idle Disch Hole	
	79	**P-19448**	Gasket—Power By Pass Jet	
	80	**P-19983**	Lead Ball—1/8″	
	81	**P-7098**	Plug—Vacuum Suction Channel	
	82	**P-23232**	Adjustable Metering Jet **055″**	**(VAR)**
	83	**P-3292**	Plug—1/8″ Pipe (Throttle Body)	
	84	**P-21719**	Block—Choke Stem	
	85	**P-17067**	Choke Tube Holder	
		P-17051	Holder	
		P-11561	Clamp	
		P-12868	Screw	
		P-8806	Nut	
	86	**P-17059**	Screw—Choke Lever Fulcrum	
	87	**P-17058**	Bushing—Choke Lever Fulcrum	
	88	**P-17068**	Spring—Choke Valve Return	
	89	**P-17093**	Screw—Choke Tube Holder Attach	
	90	**P-17132**	Spring—Choke Lever Return	
	91	**P-17053**	Choke Lever	
		P-12867	Wire Conn Screw	
	92	**P-4735**	Washer—Choke Stem	

PARTS FURNISHED EXTRA WITH EACH CARBURETOR—SENT SEPARATE

Bin Location	Key No	Part No	Part Name
	95	**P-16318**	Union
	95	**P-22394**	Copper Tubing

BENDIX PRODUCTS DIVISION

SOUTH BEND **OF BENDIX AVIATION CORPORATION** **INDIANA**

STROMBERG SF-1 CARBURETOR

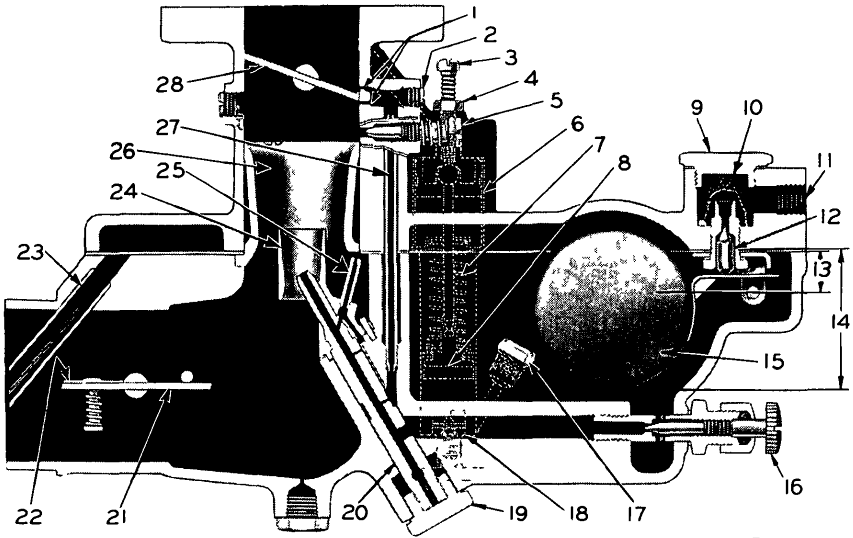
STANDARD
SF-1

STROMBERG NO. A-16221 (CODE NO. 1-11A)

SIZE: 1″ UPDRAFT S.A.E. 2-3/8″ FLANGE CENTERS. TAPPED 5/16-18.

PARTS ILLUSTRATED

1 Idle Discharge Holes
2 Idle Discharge Plug
3 Pump Adjustment Screw
4 Pump Adjustment Lock Screw
5 Idle Needle Valve
6 Vacuum Piston
7 Accelerating Pump Spring
8 Accelerating Pump Piston
9 Strainer Plug
10 Strainer
11 Gasoline Inlet
12 Float Needle Valve and Seat
13 Fuel Level (see instructions)
14 Float Setting (see instructions)
15 Float
16 Adjustable Metering Jet
17 Check Valve
18 Combination Power and Pump By-Pass Jet
19. Main Discharge Jet Nut
20 Main Discharge Jet
21 Choke Valve
22 Choke Poppet Valve
23 Vent Tube
24 Small Venturi
25 High Speed Bleed
26 Large Venturi
27. Idle Tube
28 Throttle Valve



Note—Specifications below are for latest production; previous major changes listed on parts page.

FUEL LEVEL—For measuring fuel level it is advisable to use an open vessel with a leveled top, large enough to support the throttle valve body and to accommodate the float assembly Place main body gasket between body and vessel before checking. Connect gas line to inlet in throttle body and allow gas to feed into measuring vessel at **2 lbs.** pressure until flow is stopped by the closing of the float needle valve. Fuel level should measure **9/16″** below top surface of vessel (without gasket); use standard depth gauge for measuring fuel level. To correct fuel level hold throttle body in inverted position and set float to measure **1-15/16″** from top of float to gasket surface which will give approximate fuel level; change if necessary.

MAIN METERING SYSTEM—Venturi **7/8″**, P-16872; Main Discharge Jet **No. 32,** P-16873, (**Tool T-20139**) used to remove main discharge jet. High Speed Bleeder **No. 65**, P-12870; Main Metering Jet **Adjustable** P-12802. (Use new P-6855 main discharge jet gasket when replacing main discharge jet.)

POWER SYSTEM—Combination Power and Pump By-Pass Jet **.028″** P-16786 (**Tool T-20138**); Power System is brought into operation at **4″** to **6″** of manifold vacuum. Use **Tool T-23785** to remove pump inlet check valve.

ACCELERATION—Pump stroke adjusted by adjustment screw above pump vacuum piston Screw "in" to shorten stroke, "out" to lengthen Adjustment screw to be set **1/8″** below top surface of throttle body flange

IDLE SYSTEM—Idle discharge holes **No. 56-70.** With throttle valve fully closed and **No. 56** drill in idle hole, edge of valve is located **Flush** + — **.004″** from **No. 56** drill. Idle tube **No. 70** P-16874, Adjust to smooth running, IN to make richer, OUT to make leaner.

NOTE—For use with governor, remove plug in flange to line up with vacuum channel in governor. For use without governor plug vacuum channels in flange and remove plug from barrel of carburetor.

FLANGE GASKET—P-24770

SPECIAL TOOLS REQUIRED—T-20139 Main Discharge and Metering Jet; T-20138 By-Pass Jet socket wrench; T-20180 Main Discharge Jet plug socket wrench, T-23785 Check Valve socket wrench, T-20182 Bushing and Vent Tube Remover; T-24972 Pump Burette gauge.

MOTOR TUNE-UP DATA

SPARK PLUG—
Clean and adjust at regular intervals.

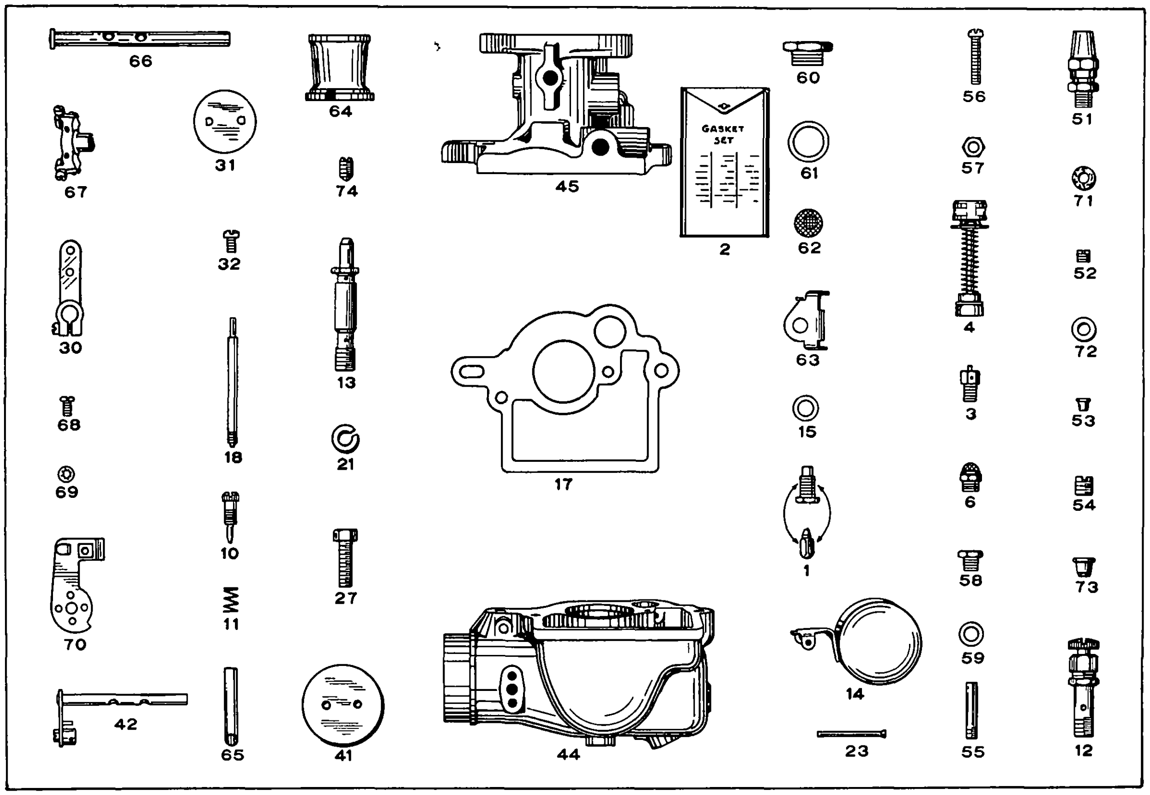
DISTRIBUTOR—Set breaker gap. Replace points if necessary.

IGNITION TIMING—Use timing light.

VALVES—Intake: Exhaust: Adjust with engine hot.

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No	Part No	Part Name	
	1	**P-17282**	Float Needle Valve and Seat 113″	**(NOT VAR)**
	2	**J-4269-G**	Complete Gasket Set	
	3	**P-16786**	Pump By Pass Jet **028″**	**(VAR)**
	4	**P-23133**	Vacuum Pump	
	6	**P-23135**	Pump Inlet Check Valve	
	10	**P-15396**	Idle Needle Valve	
	11	**P-12530**	Spring—Idle Needle Valve	
	12	**P-12802**	Adjustable Metering Jet	
	13	**P-16873**	Main Discharge Jet **No 32**	**(VAR)**
	14	**P-16767**	Float with Lever	
	15	**P-11572**	Gasket—Float Hanger and Needle Valve Seat	
	17	**P-16870**	Gasket—Main Body	
	18	**P-16874**	Idle Tube	
	21	**P-6592**	Lockwasher—Main Body Attach Screw	
	23	**P-16760**	Pin—Fulcrum—Float Lever	
	27	**P-16879**	Screw—Main Body Attaching	
	30	**P-5845-K**	Throttle Lever	
		P-3199	Screw—Throttle Lever Clamp	
	31	**P-17916**	Throttle Valve	
	32	**P-16717**	Screw—Throttle and Choke Valve Attach	
	41	**P-12537**	Choke Valve	
	42	**P-17097**	Choke Lever and Stem	
		P-10981	Screw—Choke Wire Clamp	
	44	**P-16861**	Main Body	
	45	**P-16860**	Throttle Body—**No 56-70** Idle Disch Holes	**(VAR)**
	51	**P-3278**	Gas Union	
	52	**P-7098**	Plug—Vac Suction Channel	
	53	**P-15458**	Plug—Pump Channel—No 10	
	54	**P-12780**	Plug—Idle Disch Channel	
	55	**P-12870**	High Speed Bleeder **No 65**	**(VAR)**
	56	**P-8898**	Screw—Vacuum Pump Adj	
	57	**P-14618**	Nut—Pump Adj Screw	
	58	**P-26**	Plug—Gas Inlet	
	59	**P-6855**	Gasket—Adj Metering Jet and Main Disch Jet	
	60	**P-15540**	Plug—Strainer	
	61	**P-20235**	Gasket—Strainer Plug	
	62	**P-12958**	Strainer	
	63	**P-16761**	Float Hanger	
	64	**P-16872**	Venturi Tube—**7/8″**	**(VAR)**
	65	**P-16871**	Vent Tube	
	66	**P-16875**	Throttle Stem	
	67	**P-6893-K**	Throttle Stop	
		P-12375	Screw—Idle Adj	
		P-47	Screw—Idle Adj Screw Clamp	
	68	**P-14646**	Screw—Choke Tube Holder Attaching	
	69	**P-15346**	Lockwasher—Choke Tube Holder Attach Screw	
	70	**P-12823**	Choke Tube Holder	
		P-12868	Screw—Choke Tube Clamp	
		P-8806	Nut—Choke Tube Clamp Screw	
	71	**P-14160**	Washer—Idle Tube Cork	
	72	**P-22713**	Washer—Idle Tube	
	73	**P-15457**	Plug—Pump Channel	
	74	**P-14745**	Set Screw—Vent Tube	
		FURNISHED	**EXTRA WITH EACH CARBURETOR**	
		2P-16318	Compression Union	
		P-22394	Copper Tubing	

NOTE—To eliminate Power Systems on stationary or industrial engines but retain Accelerating Pump Action use P-23144 (Key No 4) Vacuum Pump

BENDIX PRODUCTS DIVISION
SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

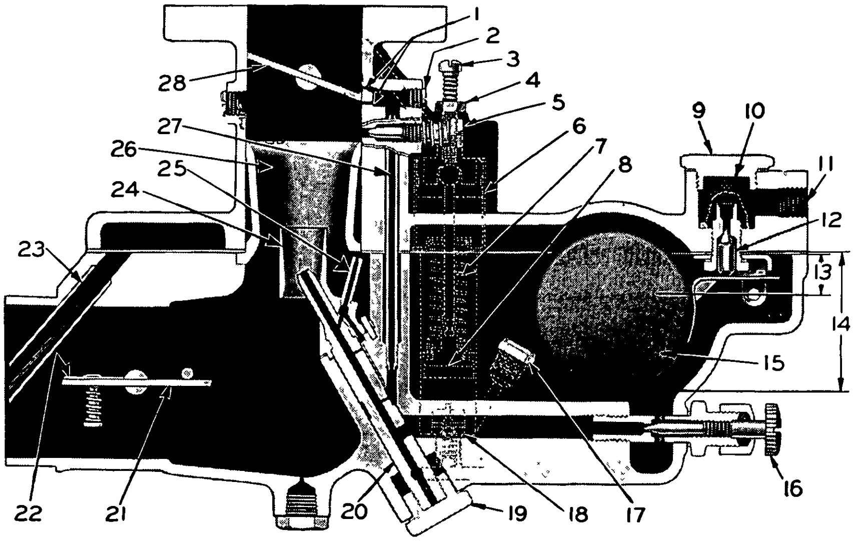
STROMBERG SF-2 CARBURETOR

STROMBERG NO. A-16222 (CODE NO. 1-12A)

SIZE: 1-1/4″ UPDRAFT S.A.E. 2-11/16″ FLANGE CENTER TAPPED 3/8-16

PARTS ILLUSTRATED

1. Idle Discharge Holes
2. Idle Discharge Plug
3. Pump Adjustment Screw
4. Pump Adjustment Lock Screw
5. Idle Needle Valve
6. Vacuum Piston
7. Accelerating Pump Spring
8. Accelerating Pump Piston
9. Strainer Plug
10. Strainer
11. Gasoline Inlet
12. Float Needle Valve and Seat
13. Fuel Level (see instructions)
14. Float Setting (see instructions)
15. Float
16. Adjustable Metering Jet
17. Check Valve
18. Combination Power and Pump By-Pass Jet
19. Main Discharge Jet nut
20. Main Discharge Jet
21. Choke Valve
22. Choke Poppet Valve
23. Vent Tube
24. Small Venturi
25. High Speed Bleed
26. Large Venturi
27. Idle Tube
28. Throttle Valve



Note—Specifications below are for latest production; previous major changes listed on parts page.

FUEL LEVEL—For measuring fuel level it is advisable to use an open vessel with a leveled top, large enough to support the throttle valve body and to accommodate the float assembly. Place main body gasket between body and vessel before checking. Connect gas line to inlet in throttle body and allow gas to feed into measuring vessel at **2 lbs.** pressure until flow is stopped by the closing of the float needle valve. Fuel level should measure **9/16″** below top surface of vessel (without gasket); use standard depth gauge for measuring fuel level. To correct fuel level hold throttle body in inverted position and set float to measure **1-31/32″** from top of float to gasket surface which will give approximate fuel level; change if necessary.

MAIN METERING SYSTEM — Venturi **1-1/32″**, P-16753; Main Discharge Jet **No. 32,** P-16773; **Tool T-20180** used to remove main dishcarge jet plug). High Speed Bleeder **No. 60,** P-16776; Main Metering Jet **Adjustable** P-12802. (Use new P-21372 main discharge jet gasket when replacing main discharge jet.)

POWER SYSTEM—Combination Power and Pump By-Pass Jet **.028″** P-16786 (**Tool T-20138**); Power System is brought into operation at **4″** to **6″** of manifold vacuum. Use **Tool T-23785** to remove pump inlet check valve.

ACCELERATION—Pump stroke adjusted by adjustment screw above pump vacuum piston. Screw "in" to shorten stroke, "out" to lengthen. Adjustment screw to be set **1/8″** below top surface of throttle body flange.

IDLE SYSTEM—Idle discharge holes **No. 58-66.** With throttle valve fully closed and **No. 58** drill in idle hole, edge of valve is located **Flush** + — **.004″** from **No. 58** drill. Idle tube **No. 68** P-16754; Adjust to smooth running, IN to make richer, OUT to make leaner.

NOTE—For use with governor, remove plug in flange to line up with vacuum channel in governor. For use without governor plug vacuum channels in flange and remove plug from barrel of carburetor.

FLANGE GASKET—P-24137.

SPECIAL TOOLS REQUIRED—T-20139 Main Discharge and Metering Jet; T-20138 By-Pass Jet socket wrench; T-20180 Main Discharge Jet plug socket wrench; T-23785 Check Valve socket wrench; T-20182 Bushing and Vent Tube Remover; T-24972 Pump Burette gauge.

MOTOR TUNE-UP DATA

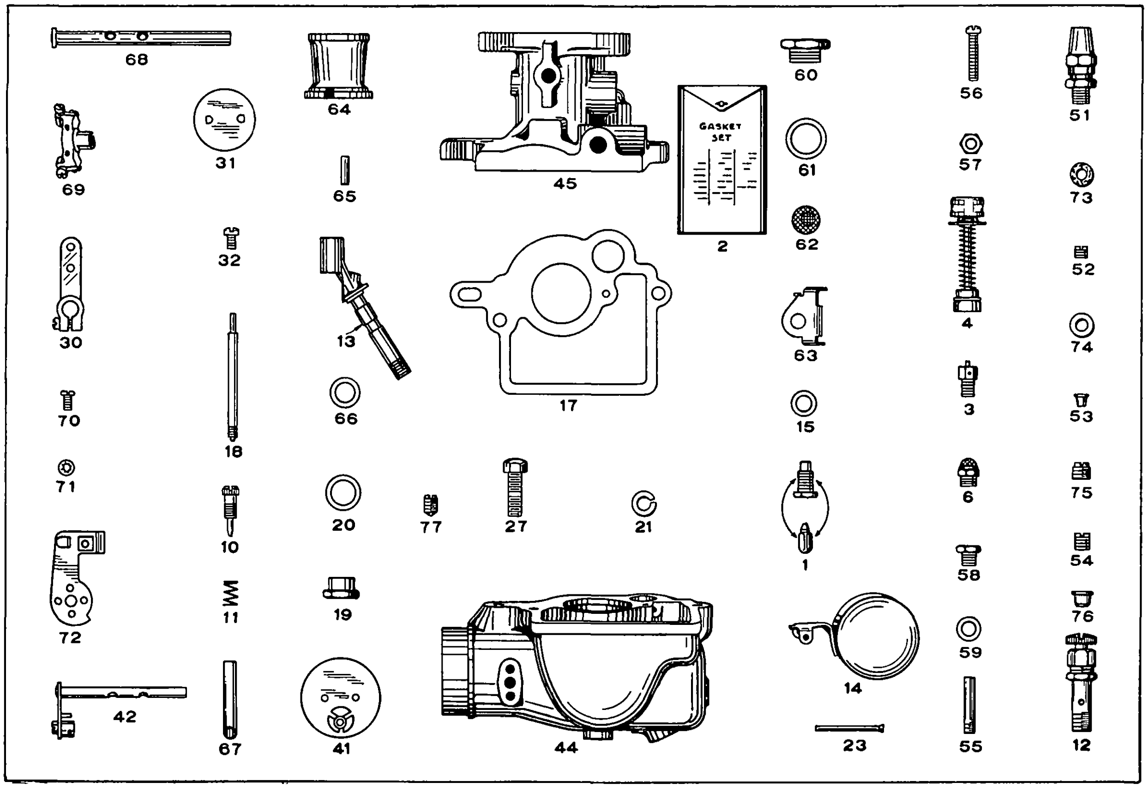
SPARK PLUG—
Clean and adjust at regular intervals.

DISTRIBUTOR—**Set breaker gap. Replace points if necessary.**

IGNITION TIMING—**Use timing light.**

VALVES—**Intake: Exhaust: Adjust with engine hot.**

SERVICE RECOMMENDATION—**Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.**



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No	Part No	Part Name	
	1	**P-17282**	Float Needle Valve and Seat 113	**(NOT VAR)**
	2	**J 4222-G**	Complete Gasket Set	
	3	**P-16786**	Pump By Pass Jet **028**	**(VAR)**
	4	**P-23133**	Vacuum Pump	
	6	**P-23135**	Pump Inlet Check Valve	
	10	**P-15396**	Idle Needle Valve	
	11	**P-12530**	Spring—Idle Needle Valve	
	12	**P-12802**	Adjustable Metering Jet	
	13	**P-16773**	Main Disch Jet and Small Venturi **No 32**	**(VAR)**
	14	**P-16767**	Float with Lever	
	15	**P-11572**	Gasket—Float Hanger and Needle Valve Seat	
	17	**P-16756**	Gasket—Main Body	
	18	**P-16754**	Idle Tube	
	19	**P-16762**	Nut—Main Discharge Jet	
	20	**P 5636**	Gasket—Main Discharge Jet Nut	
	21	**P-6592**	Lockwasher—Main Body Attach Screw	
	23	**P-16760**	Pin—Fulcrum—Float Lever	
	27	**P-16765**	Screw—Main Body Attaching	
	30	**P-5856-R**	Throttle Lever	
		P-3199	Screw—Throttle Lever Clamp	
	31	**P-16755**	Throttle Valve	
	32	**P-16716**	Screw—Throttle Valve and Choke Valve Attaching	
	41	**P-15823**	Choke Valve	
	42	**P-17098**	Choke Lever and Stem	
		P-10981	Screw—Choke Wire Clamp	
	44	**P 16752**	Main Body	
	45	**P-16751**	Throttle Body **No 58-66** Idle Dis Holes	**(VAR)**
	51	**P-3278**	Gas Union	
	52	**P-7098**	Plug—Vacuum Suction Channel	
	53	**P-15458**	Plug—Pump Channel—No 10	
	54	**P-12780**	Plug—Idle Disch Channel	
	55	**P-16776**	High Speed Bleeder **No 60**	**(VAR)**
	56	**P-5546**	Screw—Vacuum Pump Adj	
	57	**P-14618**	Nut—Pump Adj Screw	
	58	**P-26**	Plug—Gas Inlet	
	59	**P-6855**	Gasket—Adj Metering Jet	
	60	**P-17140**	Plug—Strainer	
	61	**P-22851**	Gasket—Strainer Plug	
	62	**P-12958**	Strainer—Gas	
	63	**P-16761**	Float Hanger	
	64	**P-16753**	Venturi Tube **1-1/32**	**(VAR)**
	65	**P-16850**	Pin—Main Disch Jet Locating	
	66	**P-21372**	Gasket—Main Disch Jet	
	67	**P-16757**	Vent Tube	
	68	**P-16793**	Throttle Stem	
	69	**P-7041-K**	Throttle Stop	
		P-12375	Idle Adj Screw	
		P-2266	Screw—Idle Adj Screw Clamp	
	70	**P-14646**	Screw—Choke Tube Holder Attach	
	71	**P-15346**	Lockwasher—Choke Tube Holder Attach Screw	
	72	**P-12823**	Choke Tube Holder	
		P-12868	Screw—Choke Tube Clamp	
		P-8806	Nut—Choke Tube Clamp Screw	
	73	**P-14160**	Washer—Idle Tube (Cork)	
	74	**P-22713**	Washer—Idle Tube	
	75	**P-3292**	Plug—Gov Conn	
	76	**P-20454**	Plug—Idle Channel	
	77	**P 14745**	Set Screw—Vent Tube	

FURNISHED EXTRA WITH EACH CARBURETOR

Part No	Part Name
P-16318	Compression Union
P-22394	Copper Tubing

NOTE—To eliminate Power Systems on Stationary or Industrial Engines but retain Accelerating Pump Action use P-23144 (Key No 4) Vacuum Pump

BENDIX PRODUCTS DIVISION
SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

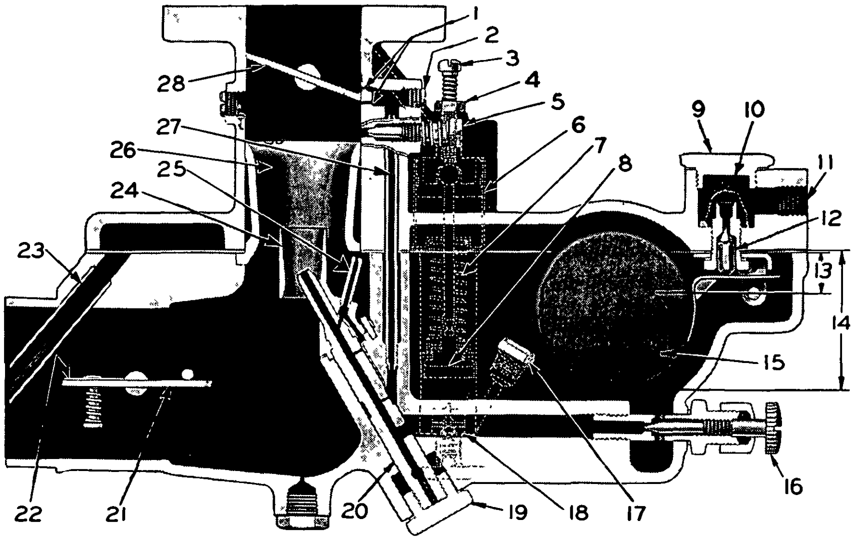
STROMBERG SF-3 CARBURETOR

STROMBERG NO. A-16223 (CODE NO. 1-13A)

SIZE: 1-1/2" UPDRAFT S.A.E. 2-15/16" FLANGE CENTERS TAPPED 3/8-16

PARTS ILLUSTRATED

1. Idle Discharge Holes
2. Idle Discharge Plug
3. Pump Adjustment Screw
4. Pump Adjustment Lock Screw
5. Idle Needle Valve
6. Vacuum Piston
7. Accelerating Pump Spring
8. Accelerating Pump Piston
9. Strainer Plug
10. Strainer
11. Gasoline Inlet
12. Float Needle Valve and Seat
13. Fuel Level (see instructions)
14. Float Setting (see instructions)
15. Float
16. Adjustable Metering Jet
17. Check Valve
18. Combination Power and Pump By-Pass Jet
19. Main Discharge Jet nut
20. Main Discharge Jet
21. Choke Valve
22. Choke Poppet Valve
23. Vent Tube
24. Small Venturi
25. High Speed Bleed
26. Large Venturi
27. Idle Tube
28. Throttle Valve



Note—Specifications below are for latest production; previous major changes listed on parts page.

FUEL LEVEL—For measuring fuel level it is advisable to use on open vessel with a leveled top, large enough to support the throttle valve body and to accommodate the float assembly. Place main body gasket between body and vessel before checking. Connect gas line to inlet in throttle body and allow gas to feed into measuring vessel at **2 lbs.** pressure until flow is stopped by the closing of the float needle valve. Fuel level should measure **7/8"** below top surface of vessel (without gasket); use standard depth gauge for measuring fuel level. To correct fuel level hold throttle body in inverted position and set float to measure **2-1/4"** from top of float to gasket surface which will give approximate fuel level; change if necessary.

MAIN METERING SYSTEM—Venturi **1-3/16"**, P-16845; Main Discharge Jet **No. 28,** P-16863; (**Tool T-20180** used to remove main discharge jet plug). High Speed Bleeder **No. 65** P-14334; Main Metering Jet **Adjustable** P-12802. (Use new P-21372 main discharge jet gasket when replacing main discharge jet.)

POWER SYSTEM—Combination Power and Pump By-Pass Jet **.028"** P-16786 (**Tool T-21038**); Power System is brought into operation at **4"** to **6"** of manifold vacuum. Use **Tool T-23785** to remove pump inlet check valve.

ACCELERATION—Pump stroke adjusted by adjustment screw above pump vacuum piston. Screw "in" to shorten stroke, "out" to lengthen. Adjustment screw to be set **1/8"** below top surface of throttle body flange.

IDLE SYSTEM—Idle discharge holes **No. 58-66.** With throttle valve fully closed and **No. 58** drill in idle hole, edge of valve is located **Flush** + — **.004"** from **No. 58** drill. Idle tube **No. 68** P-16847; Adjust to smooth running, IN to make richer, OUT to make leaner.

NOTE—For use with governor, remove plug in flange to line up with vacuum channel in governor. For use without governor plug vacuum channels in flange and remove plug from barrel of carburetor.

FLANGE GASKET—P-24136.

SPECIAL TOOLS REQUIRED—T-20139 Main Discharge and Metering Jet; T-20138 By-Pass Jet socket wrench; T-20180 Main Discharge Jet plug socket wrench; T-23785 Check Valve socket wrench; T-20182 Bushing and Vent tube remover; T-24972 Pump Burette Gauge.

MOTOR TUNE-UP DATA

SPARK PLUG—
Clean and adjust at regular intervals.

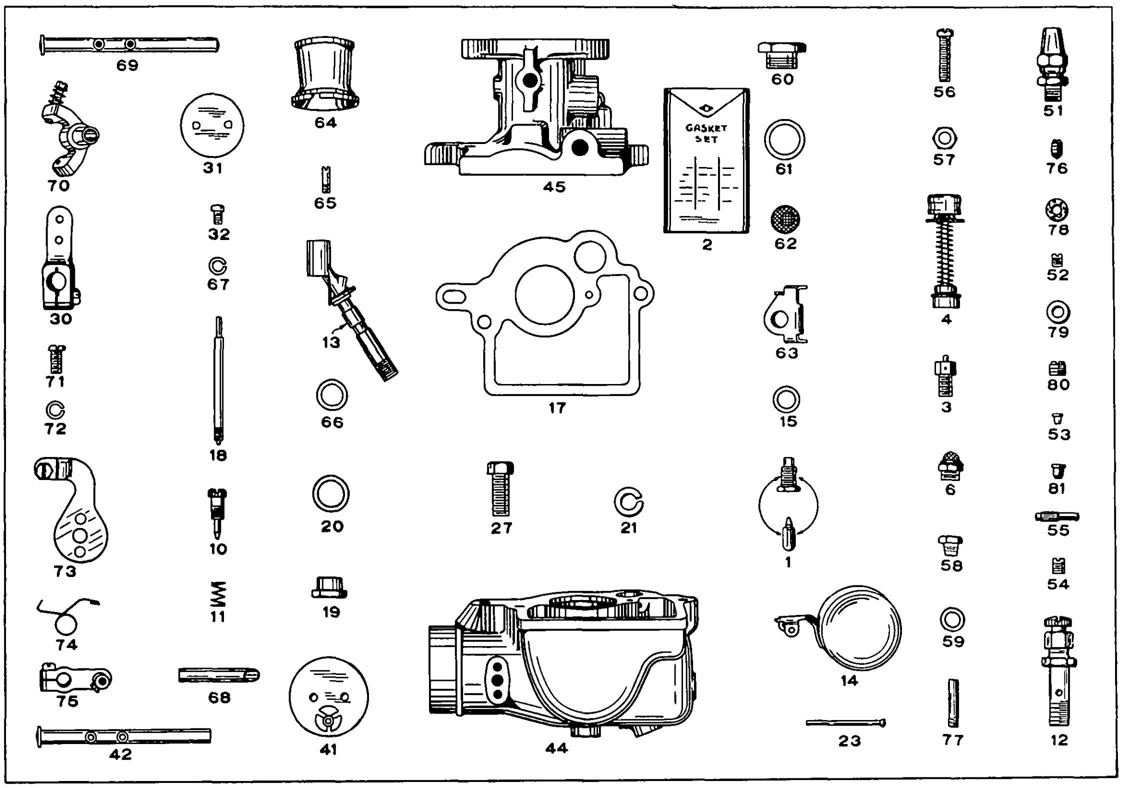
DISTRIBUTOR—Set breaker gap. Replace points if necessary.

IGNITION TIMING—Use timing light.

VALVES—Intake: Exhaust: Adjust with engine hot.

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No	Part No.	Part Name	
	1	**P-17282**	Float Needle Valve and Seat 113″	**(NOT VAR)**
	2	**J-4221-G**	Complete Gasket Set	
	3	**P-16786**	Pump By Pass Jet **028″**	**(VAR)**
	4	**P-23129**	Vacuum Pump	
	6	**P-23135**	Pump Inlet Check Valve	
	10	**P-15396**	Idle Needle Valve	
	11	**P-12530**	Spring—Idle Needle Valve	
	12	**P-12802**	Adjusting Metering Jet	
	13	**P-16863**	Main Disch Jet and Small Venturi **No 28**	**(VAR)**
	14	**P-16851**	Float with Lever	
	15	**P-11572**	Gasket—Float Hanger and Needle Valve Seat	
	17	**P-16844**	Gasket—Main Body	
	18	**P-16847**	Idle Tube **No 68**	**(VAR)**
	19	**P-16762**	Nut—Main Discharge Jet	
	20	**P-5636**	Gasket—Main Discharge Jet Nut	
	21	**P-5364**	Lockwasher—Main Body Attach Screw	
	23	**P-16760**	Pin—Fulcrum—Float Lever	
	27	**P-16849**	Screw—Main Body Attaching	
	30	**P-10001-K**	Throttle Lever	
		P-15817	Screw—Throttle Lever Clamp	
	31	**P-12251**	Throttle Valve	
	32	**P-15259**	Screw—Throttle and Choke Valve Attaching	
	41	**P-16859**	Choke Valve	
	42	**P-16868**	Choke Lever Stem	
	44	**P-16843**	Main Body	
	45	**P-16842**	Throttle Body **No 58-66** Idle Disch Holes	**(VAR)**
	51	**P-3278**	Gas Union	
	52	**P-7098**	Plug—Vacuum Suction Channel	
	53	**P-15458**	Plug—Pump Channel	
	54	**P-12780**	Plug—Idle Disch Channel	
	55	**P-16764**	Pin—Choke Valve Stop	
	56	**P-19911**	Screw—Vacuum Pump Adj	
	57	**P-14618**	Nut—Pump Adj Screw	
	58	**P-26**	Plug—Gas Inlet	
	59	**P-6855**	Gasket—Adj Metering Jet	
	60	**P-17140**	Plug—Strainer	
	61	**P-20235**	Gasket—Strainer Plug	
	62	**P-12958**	Strainer—Gas	
	63	**P-16761**	Float Hanger	
	64	**P-16845**	Venturi Tube **1-3/16″**	**(VAR)**
	65	**P-16850**	Pin—Main Disch Jet Locating	
	66	**P-21372**	Gasket—Main Disch Jet	
	67	**P-1693**	Lockwasher—Throttle & Choke Valve Att Screw	
	68	**P-16848**	Vent Tube	
	69	**P-16866**	Throttle Stem	
	70	**P-18449**	Throttle Stop (Complete)	
		P-18552	Screw—Idle Adj	
		P-15831	Spring—Idle Adj Screw	
	71	**P-16766**	Screw—Choke Tube Holder Attach	
	72	**P-3157**	Lockwasher—Choke Tube Holder Attach Screw	
	73	**P-16805**	Choke Tube Holder (Complete)	
		P-16807	Screw—Choke Tube Clamp	
	74	**P-16763**	Spring—Choke Valve Return	
	75	**P-16799**	Choke Lever	
		P-13046	Screw—Choke Wire Clamp	
		P-18927	Screw—Choke Lever Clamp	
	76	**P-14745**	Set Screw—Vent Tube	
	77	**P-14334**	High Speed Bleeder **No 65**	**(VAR)**
	78	**P-14160**	Washer—Idle Tube Cork	
	79	**P-22713**	Washer—Idle Tube	
	80	**P-3292**	Plug—Vac Gov Conn	
	81	**P-15459**	Plug—Idle Channel	

FURNISHED EXTRA WITH EACH CARBURETOR

P-16318	Compression Union
P-22394	Copper Tubing

NOTE—To eliminate Power Systems on Stationary or Industrial Engines but retain Accelerating Pump Action use P-23146 (Key No 4) Vacuum Pump

BENDIX PRODUCTS DIVISION
SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

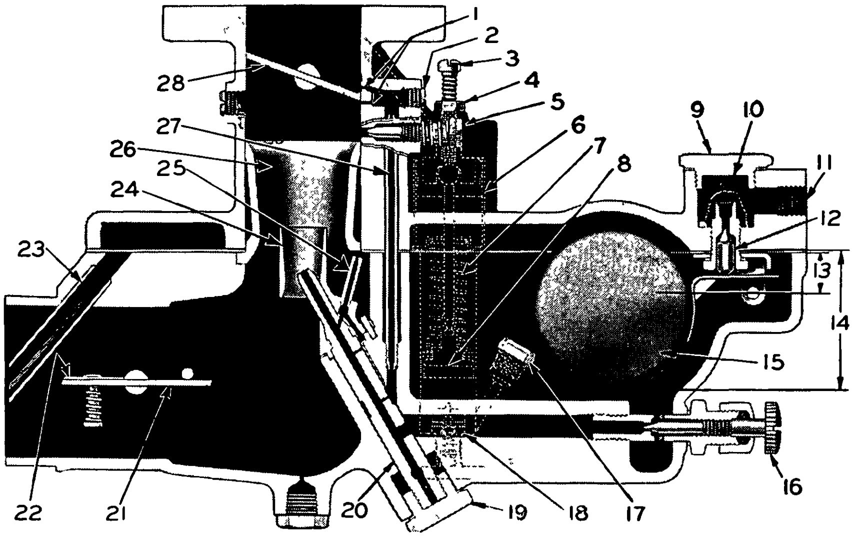
STROMBERG SF-4 CARBURETOR

STROMBERG NO. A-16224 (CODE NO. 1-14A)

SIZE: 1-3/4″ UPDRAFT S.A.E. 3-5/16″ FLANGE CENTERS TAPPED 7/16″-14

PARTS ILLUSTRATED

1. Idle Discharge Holes
2. Idle Discharge Plug
3. Pump Adjustment Screw
4. Pump Adjustment Lock Screw
5. Idle Needle Valve
6. Vacuum Piston
7. Accelerating Pump Spring
8. Accelerating Pump Piston
9. Strainer Plug
10. Strainer
11. Gasoline Inlet
12. Float Needle Valve and Seat
13. Fuel Level (see instructions)
14. Float Setting (see instructions)
15. Float
16. Adjustable Metering Jet
17. Check Valve
18. Combination Power and Pump By-Pass Jet
19. Main Discharge Jet Nut
20. Main Discharge Jet
21. Choke Valve
22. Choke Poppet Valve
23. Vent Tube
24. Small Venturi
25. High Speed Bleed
26. Large Venturi
27. Idle Tube
28. Throttle Valve



Note—Specifications below are for latest production; previous major changes listed on parts page.

FUEL LEVEL—For measuring fuel level it is advisable to use on open vessel with a leveled top, large enough to support the throttle valve body and to accommodate the float assembly. Place main body gasket between body and vessel before checking. Connect gas line to inlet in throttle body and allow gas to feed into measuring vessel at **2 lbs.** pressure until flow is stopped by the closing of the float needle valve. Fuel level should measure **7/8″** below top surface of vessel (without gasket); use standard depth gauge for measuring fuel level. To correct fuel level hold throttle body in inverted position and set float to measure **2-1/4″** from top of float to gasket surface which will give approximate fuel level; change if necessary.

MAIN METERING SYSTEM — Venturi **1-7/16″**, P-17498; Main Discharge Jet **No. 28,** P-17250; (**Tool T-20180** used to remove main discharge jet plug). High Speed Bleeder **No. 65** P-16320; Main Metering Jet **Adjustable** P-12802. (Use new P-21372 main discharge jet gasket when replacing main discharge je)t.

POWER SYSTEM—Combination Power and Pump By-Pass Jet **.046″** P-16786 (**Tool T-20138**); Power System is brought into operation at **4″** to **6″** of manifold vacuum. Use **Tool T-23785** to remove pump inlet check valve.

ACCELERATION—Pump stroke adjusted by adjustment screw above pump vacuum piston. Screw "in" to shorten stroke, "out" to lengthen. Adjustment screw to be set **1/8″** below top surface of throttle body flange.

IDLE SYSTEM—Idle discharge holes **No. 54-60.** With throttle vale fully closed the lower idle hole should be open from a **No. 64** to **No. 57** drill. Idle tube **No. 66** P-17497. Adjust to smooth running; IN to make richer, OUT to make leaner.

NOTE—For use with governor, remove plug in flange to line up with vacuum channel in governor. For use without governor plug vacuum channels in flange and remove plug from barrel of carburetor.

FLANGE GASKET—P-24771.

SPECIAL TOOLS REQUIRED—T-20139 Main Discharge and Metering Jet; T-20138 By-Pass Jet socket wrench; T-20180 Main Discharge Jet plug socket wrench; T-23785 Check Valve socket wrench; T-20182 Bushing and Vent tube remover; T-24972 Pump Burette Gauge.

MOTOR TUNE-UP DATA

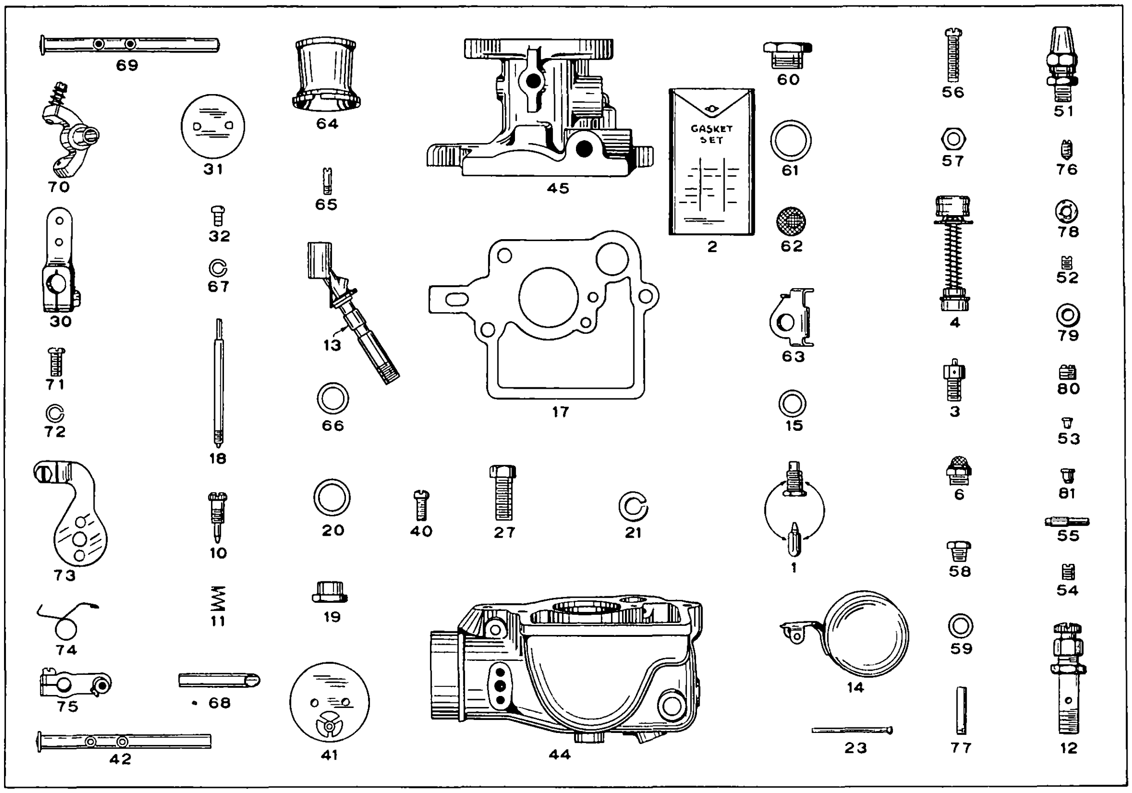
SPARK PLUG—
Clean and adjust at regular intervals.

DISTRIBUTOR—Set breaker gap. Replace points if necessary.

IGNITION TIMING—Use timing light.

VALVES—Intake; Exhaust: Adjust with engine hot.

SERVICE RECOMMENDATION—Ch ck heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No	Part No.	Part Name	
	1	**P-18811**	Float Needle Valve and Seat 140″	**(NOT VAR.)**
	2	**J-4270-G**	Complete Gasket Set	
	3	**P-16786**	Pump By Pass Jet **.046″**	**(VAR.)**
	4	**P-23126**	Vacuum Pump	
	6	**P-23135**	Pump Inlet Check Valve	
	10	**P-15396**	Idle Needle Valve	
	11	**P-12530**	Spring—Idle Needle Valve	
	12	**P-12802**	Adjustable Metering Jet	
	13	**P-17250**	Main Disch Jet and Small Venturi **No 28**	**(VAR.)**
	14	**P-17501**	Float with Lever	
	15	**P-14364**	Gasket—Float Hanger and Needle Valve Seat	
	17	**P-17496**	Gasket—Main Body	
	18	**P-17497**	Idle Tube	
	19	**P-16762**	Nut—Main Disch Jet	
	20	**P-5636**	Gasket—Main Disch Jet Nut	
	21	**P-5364**	Lockwasher—Main Body Attach Screw	
	23	**P-16760**	Pin—Fulcrum—Float Lever	
	27	**P-16849**	Screw—Main Body Attaching	
	30	**P-10001-K**	Throttle Lever	
		P-15817	Screw—Throttle Lever Clamp	
	31	**P-23225**	Throttle Valve (21°)	**(NOT VAR)**
	32	**P-285**	Screw—Throttle Valve Attach	
	40	**P-15259**	Screw—Choke Valve Attach	
	41	**P-17515**	Choke Valve	
	42	**P-15717**	Choke Lever Stem	
	44	**P-17494**	Main Body	
	45	**P-17493**	Throttle Body **No 54-60** Idle Disch Holes	**(VAR)**
	51	**P-3223**	Gas Union	
	52	**P-7098**	Plug—Vac Suction Channel	
	53	**P-15458**	Plug—Pump Channel No 10	
	54	**P-12780**	Plug—Idle Channel	
	55	**P-16764**	Pin—Choke Valve Stop	
	56	**P-19911**	Screw—Vacuum Pump Adj	
	57	**P-14618**	Nut—Pump Adj Screw	
	58	**P-8387**	Plug—Gas Inlet	
	59	**P-6855**	Gasket—Adjustable Metering Jet	
	60	**P-17140**	Plug—Strainer	
	61	**P-20235**	Gasket—Strainer Plug	
	62	**P-12985**	Strainer	
	63	**P-17500**	Float Hanger	
	64	**P-17498**	Venturi Tube **1-7/16″**	**(VAR)**
	65	**P-16850**	Pin—Main Disch Jet Locating	
	66	**P-21372**	Gasket—Main Disch Jet	
	67	**P-1693**	Lockwasher—Thro and Choke Valve Attach Screw	
	68	**P-17499**	Vent Tube	
	69	**P-17519**	Throttle Stem	
	70	**P-16795**	Throttle Stop (Complete)	
		P-18552	Screw—Idle Adj	
		P-15831	Spring--Idle Adj Screw	
	71	**P-16766**	Screw—Choke Tube Holder Attach	
	72	**P-3157**	Lockwasher—Choke Tube Holder Attach Screw	
	73	**P-16805**	Choke Tube Holder	
		P-16807	Screw—Choke Tube Clamp	
	74	**P-16763**	Spring—Choke Valve Return	
	75	**P-16799**	Choke Lever	
		P-13046	Screw—Choke Wire Clamp	
		P-18927	Screw—Choke Lever Clamp	
	76	**P-14745**	Set Screw—Vent Tube	
	77	**P-16320**	High Speed Bleeder **No 65**	**(VAR)**
	78	**P-14160**	Washer—Idle Tube Cork	
	79	**P-22713**	Washer—Idle Tube	
	80	**P-3292**	Plug—Vac Gov Conn	
	81	**P-15459**	Plug—Idle Disch Channel	

FURNISHED EXTRA WITH EACH CARBURETOR

P-16318	Compression Union
P-22394	Copper Tubing

NOTE—To eliminate Power Systems on Stationary or Industrial Engines but retain Accelerating Pump Action use P-23150 (Key No 4) Vacuum Pump.

BENDIX PRODUCTS DIVISION
SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

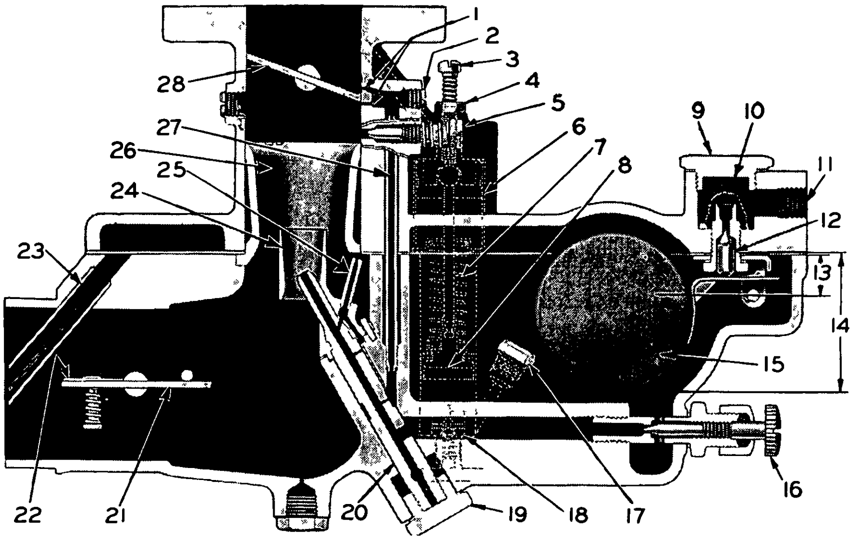
STROMBERG SF-5 CARBURETOR

STROMBERG NO. A-16225 (CODE NO. 1-15A)

SIZE: 2″ UPDRAFT S.A.E. 3-9/16″ FLANGE CENTERS TAPPED 7/16-14

PARTS ILLUSTRATED

1. Idle Discharge Holes
2. Idle Discharge Plug
3. Pump Adjustment Screw
4. Pump Adjustment Lock Screw
5. Idle Needle Valve
6. Vacuum Piston
7. Accelerating Pump Spring
8. Accelerating Pump Piston
9. Strainer Plug
10. Strainer
11. Gasoline Inlet
12. Float Needle Valve and Seat
13. Fuel Level (see instructions)
14. Float Setting (see instructions)
15. Float
16. Adjustable Metering Jet
17. Check Valve
18. Combination Power and Pump By-Pass Jet
19. Main Discharge Jet nut
20. Main Discharge Jet
21. Choke Valve
22. Choke Poppet Valve
23. Vent Tube
24. Small Venturi
25. High Speed Bleed
26. Large Venturi
27. Idle Tube
28. Throttle Valve



Note—Specifications below are for latest production; previous major changes listed on parts page.

FUEL LEVEL—For measuring fuel level it is advisable to use on open vessel with a leveled top, large enough to support the throttle valve body and to accommodate the float assembly. Place main body gasket between body and vessel before checking. Connect gas line to inlet in throttle body and allow gas to feed into measuring vessel at **2 lbs.** pressure until flow is stopped by the closing of the float needle valve. Fuel level should measure **7/8″** below top surface of vessel (without gasket); use standard depth gauge for measuring fuel level. To correct fuel level hold throttle body in inverted position and set float to measure **2-9/32″** from top of float to gasket surface which will give approximate fuel level; change if necessary.

MAIN METERING SYSTEM—Venturi **1-1/2″**, P-17739; Main Discharge Jet **No. 28,** P-17250; (**Tool T-20180** used to remove main discharge jet plug). High Speed Bleeder **No. 65** P-16320; Main Metering Jet **Adjustable** P-15748. (Use new P-21372 main discharge jet gasket when replacing main discharge jet).

POWER SYSTEM—Combination Power and Pump By-Pass Jet **.048″** P-16786 (**Tool T-20138**); Power System is brought into operation at **4″** to **6″** of manifold vacuum. Use **Tool T-23785** to remove pump inlet check valve.

ACCELERATION—Pump stroke adjusted by adjustment screw above pump vacuum piston. Screw "in" to shorten stroke, "out" to lengthen. Adjustment screw to be set **1/8″** below top surface of throttle body flange.

IDLE SYSTEM—Idle discharge holes **No. 54-60.** With throttle valve fully closed the lower idle hole should be open from a **No. 64** to **No. 57** drill. Idle tube **No. 66** P-17497, Adjust to smooth running, IN to make richer, OUT to make leaner.

NOTE—For use with governor, remove plug in flange to line up with vacuum channel in governor. For use without governor plug vacuum channels in flange and remove plug from barrel of carburetor.

FLANGE GASKET—P-24772.

SPECIAL TOOLS REQUIRED—T-20139 Main Discharge and Metering Jet; T-20138 By-Pass Jet socket wrench; T-20180 Main Discharge Jet plug socket wrench; T-23785 Check Valve socket wrench; T-20182 Bushing and Vent tube remover; T-24972 Pump Burette Gauge.

MOTOR TUNE-UP DATA

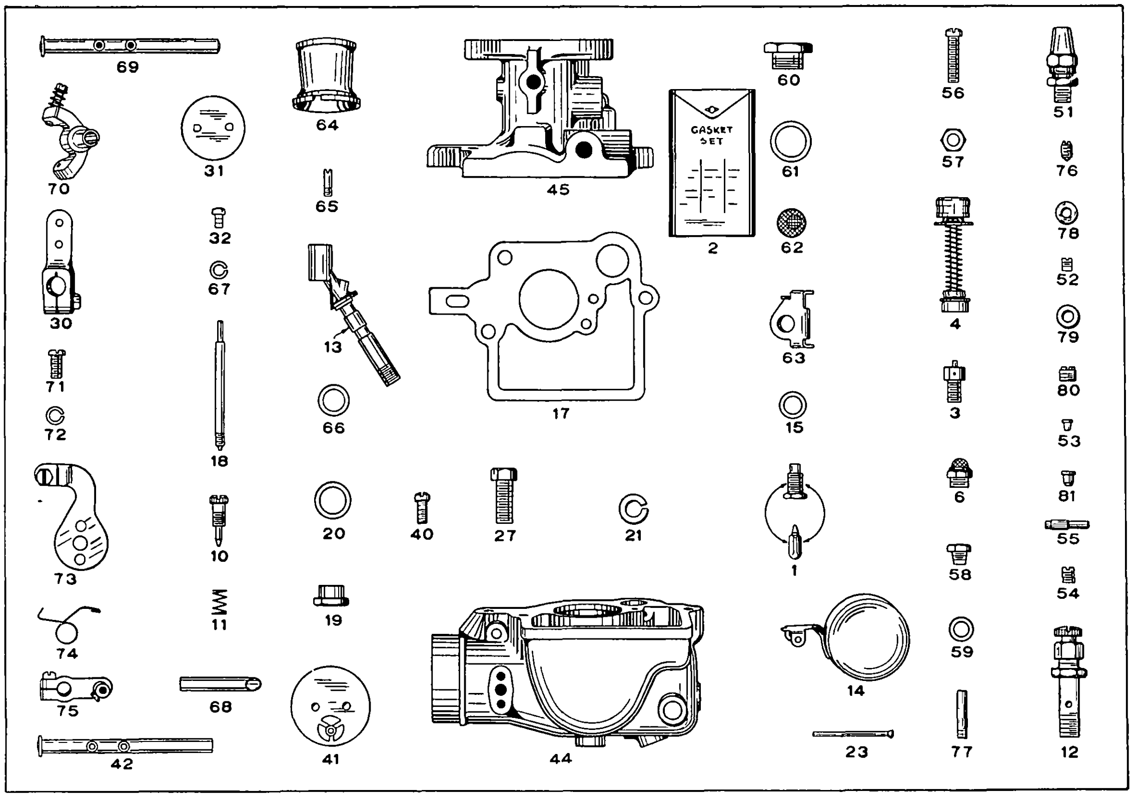
**SPARK PLUG—
Clean and adjust at regular intervals.**

DISTRIBUTOR—Set breaker gap. Replace points if necessary.

IGNITION TIMING—Use timing light.

VALVES—Intake: Exhaust: Adjust with engine hot.

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No	Part No	Part Name
	1	P-18812	Float Needle Valve and Seat 160" (NOT VAR)
	2	J-4271-G	Complete Gasket Set
	3	P-16786	Pump By Pass Jet .048" (VAR)
	4	P-23126	Vacuum Pump
	6	P-23135	Pump Inlet Check Valve
	10	P-15396	Idle Needle Valve
	11	P-12530	Spring—Idle Needle Valve
	12	P-15748	Adjustable Metering Jet
	13	P-17250	Main Disch Jet and Small Venturi No 28 (VAR)
	14	P-17501	Float with Lever
	15	P-14364	Gasket—Float Hanger and Needle Valve Seat
	17	P-17585	Gasket—Main Body
	18	P-17497	Idle Tube
	19	P-16762	Nut—Main Disch Jet
	20	P-5636	Gasket—Main Disch Jet Nut
	21	P-5364	Lockwasher—Main Body Attach Screw
	23	P-16760	Pin—Fulcrum—Float Lever
	27	P-16849	Screw—Main Body Attaching
	30	P-10001-K	Throttle Lever
		P-15817	Screw—Throttle Lever Clamp
	31	P-16065	Throttle Valve (21°) (NOT VAR)
	32	P-285	Screw—Throttle Valve Attach
	40	P-15259	Screw—Choke Valve Attach
	41	P-17515	Choke Valve
	42	P-17517	Choke Lever Stem
	44	P-17494	Main Body
	45	P-17535	Throttle Body No. 54-60 Idle Disch Holes (VAR)
	51	P-3223	Gas Union
	52	P-7098	Plug—Vac Suction Channel
	53	P-15458	Plug—Pump Channel No 10
	54	P-12780	Plug—Idle Channel
	55	P-16764	Pin—Choke Valve Stop
	56	P-19911	Screw—Vacuum Pump Adj
	57	P-14618	Nut—Pump Adj Screw
	58	P-8387	Plug—Gas Inlet
	59	P-6855	Gasket—Adjustable Metering Jet
	60	P-17140	Plug—Strainer
	61	P-20235	Gasket—Strainer Plug
	62	P-12985	Strainer
	63	P-17500	Float Hanger
	64	P-17739	Venturi Tube 1-1/2" (VAR)
	65	P-16850	Pin—Main Disch Jet Locating
	66	P-21372	Gasket—Main Disch Jet
	67	P-1693	Lockwasher—Thro and Choke Valve Att Screw
	68	P-17499	Vent Tube
	69	P-17741	Throttle Stem
	70	P-16795	Throttle Stop (Complete)
		P-18552	Screw—Idle Adj
		P-15831	Spring—Idle Adj Screw
	71	P-16766	Screw—Choke Tube Holder Attach
	72	P-3157	Lockwasher—Choke Tube Holder Attach Screw
	73	P-16805	Choke Tube Holder
		P-16807	Screw—Choke Tube Clamp
	74	P-16763	Spring—Choke Valve Return
	75	P-16799	Choke Lever
		P-13046	Screw—Choke Wire Clamp
		P-18927	Screw—Choke Lever Clamp
	76	P-14745	Set Screw—Vent Tube
	77	P-16320	High Speed Bleeder No 65 (VAR)
	78	P-14160	Washer—Idle Tube Cork
	79	P-22713	Washer—Idle Tube
	80	P-3292	Plug—Vac Gov Conn
	81	P-15459	Plug—Idle Disch Channel

FURNISHED EXTRA WITH EACH CARBURETOR

Part No	Part Name
P-16318	Compression Union
P-22394	Copper Tubing

NOTE—To eliminate Power Systems on Stationary or Industrial Engines but retain Accelerating Pump Action use P-23150 (Key No 4) Vacuum Pump

BENDIX PRODUCTS DIVISION
SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

STROMBERG SF-1 CARBURETOR

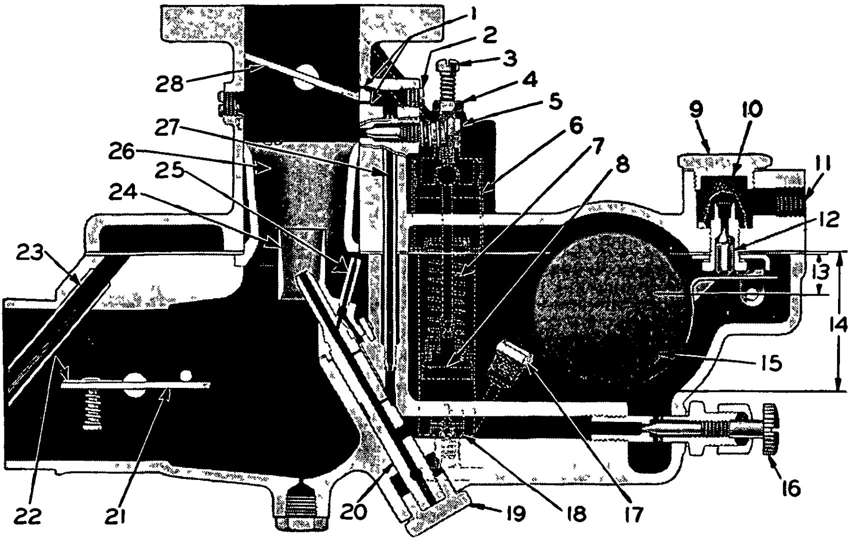
STROMBERG NO. 380021 (CODE NO. 1-110)

SIZE: 1″ UPDRAFT S.A.E. 2-3/8″ FLANGE CENTERS TAPPED 5/16-18 (THIS UNIT SUPERSEDES A-1870S STD.)

STANDARD
SF-1
(Offset Choke)

PARTS ILLUSTRATED

1. Idle Discharge Holes
2. Idle Discharge Plug
3. Pump Adjustment Screw
4. Pump Adjustment Lock Screw
5 Idle Needle Valve
6. Vacuum Piston
7. Accelerating Pump Spring
8 Accelerating Pump Piston
9 Strainer Plug
10. Strainer
11. Gasoline Inlet
12. Float Needle Valve and Seat
13 Fuel Level (see instructions)
14 Float Setting (see instructions)
15 Float
16 Adjustable Metering Jet
17 Check Valve
18. Combination Power and Pump By-Pass Jet
19 Main Discharge Jet Nut
20 Main Discharge Jet
21 Choke Valve
22 Choke Poppet Valve
23 Vent Tube
24. Small Venturi
25 High Speed Bleed
26. Large Venturi
27 Idle Tube
28. Throttle Valve



Note—Specifications below are for latest production; previous major changes listed on parts page.

FUEL LEVEL—For measuring fuel level it is advisable to use an open vessel with a leveled top, large enough to support the throttle valve body and to accommodate the float assembly. Place main body gasket between body and vessel before checking. Connect gas line to inlet in throttle body and allow gas to feed into measuring vessel at **2 lbs.** pressure until flow is stopped by the closing of the float needle valve. Fuel level should measure **9/16″** below top surface of vessel (without gasket); use standard depth gauge for measuring fuel level. To correct fuel level hold throttle body in inverted position and set float to measure **1-3/4″** from top of float to gasket surface which will give approximate fuel level; change if necessary.

MAIN METERING SYSTEM—Venturi **7/8″**, P-16872; Main Discharge Jet **No. 32,** P-16873; (**Tool T-20139**) used to remove main discharge jet. High Speed Bleeder **No. 65,** P-12870; Main Metering Jet **Adjustable** P-12802. (Use new P-6855 main discharge jet gasket when replacing main discharge jet.)

POWER SYSTEM—Combination Power and Pump By-Pass Jet **.028″** P-16786 (**Tool T-20138**); Power System is brought into operation at **4″** to **6″** of manifold vacuum. Use **Tool T-23785** to remove pump inlet check valve.

ACCELERATION—Pump stroke adjusted by adjustment screw above pump vacuum piston. Screw "in" to shorten stroke, "out" to lengthen. Adjustment screw to be set **1/8″** below top surface of throttle body flange.

IDLE SYSTEM—Idle discharge holes **No. 56-70.** With throttle valve fully closed and **No. 56** drill in idle hole, edge of valve is located **Flush + — .004″** from **No. 56** drill. Idle tube **No. 70** P-16874; Adjust to smooth running, IN to make richer, OUT to make leaner.

NOTE—For use with governor, remove plug in flange to line up with vacuum channel in governor. For use without governor plug vacuum channels in flange and remove plug from barrel of carburetor.

FLANGE GASKET—P-24770.

SPECIAL TOOLS REQUIRED—T-20139 Main Discharge and Metering Jet; T-20138 By-Pass Jet socket wrench; T-20180 Main Discharge Jet plug socket wrench; T-23785 Check Valve socket wrench; T-20182 Bushing and Vent Tube Remover; T-24972 Pump Burette gauge.

MOTOR TUNE-UP DATA

SPARK PLUG—
Clean and adjust at regular intervals.

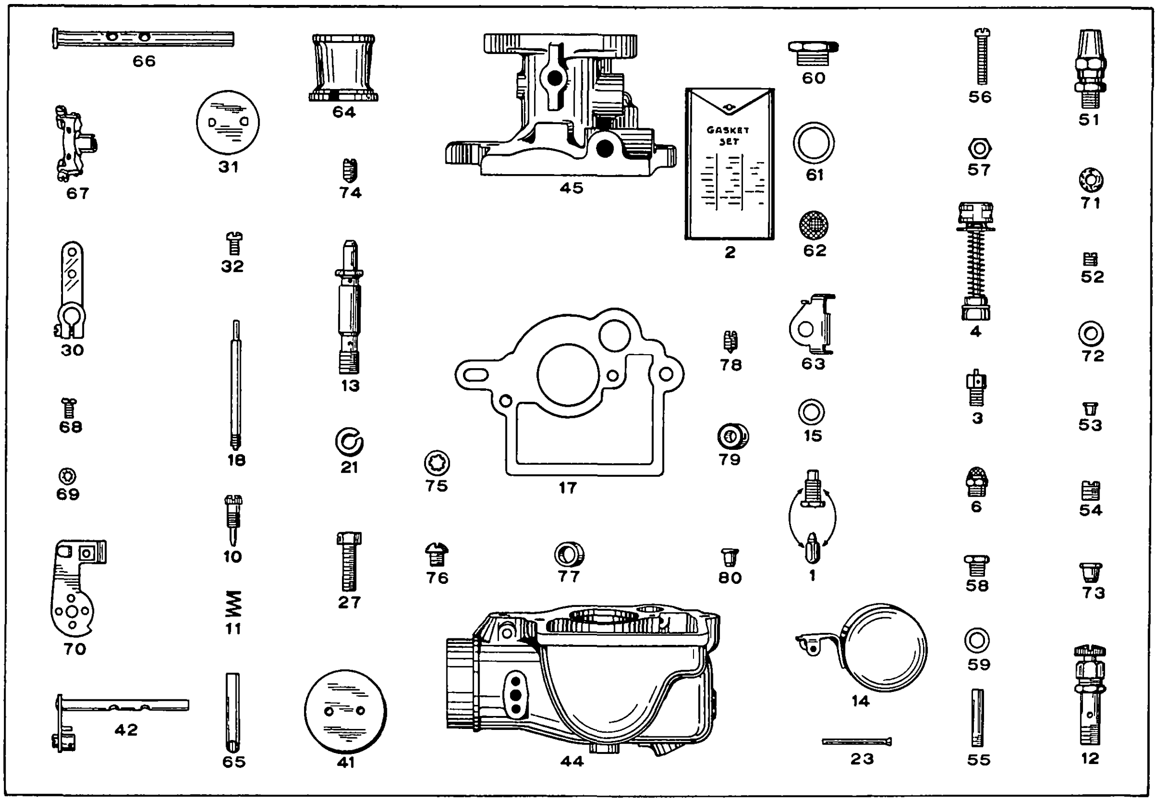
DISTRIBUTOR—**Set breaker gap. Replace points if necessary.**

IGNITION TIMING—**Use timing light.**

VALVES—**Intake: Exhaust: Adjust with engine hot.**

SERVICE RECOMMENDATION—**Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.**

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Repair Parts Kit No. RK-99

Bin Location	Key No	Part No.	Part Name	
	1	P-17282	Float Needle Valve and Seat 113″	(NOT VAR)
	2	J-4435-G	Complete Gasket Set	
	3	P-16786	Pump By Pass Jet 028″	(VAR)
	4	P-23133	Vacuum Pump	
	4	P-23135	Pump Inlet Check Valve	
	10	P-15396	Idle Needle Valve	
	11	P-12530	Spring—Idle Needle Valve	
	12	P-12802	Adjustable Metering Jet	
	13	P-16873	Main Discharge Jet **No** 32	(VAR)
	14	P-16767	Float with Lever	
	15	P-11572	Gasket—Float Hanger and Float Needle Valve Seat	
	17	P-16870	Gasket—Main Body	
	18	P-16874	Idle Tube	
	21	P-6592	Lockwasher—Main Body Attach Screw	
	23	P-16760	Pin—Fulcrum—Float Lever	
	27	P-16879	Screw—Main Body Attaching	
	30	P-5845-K	Throttle Lever	
		P-3199	Screw—Throttle Lever Clamp	
	31	P-17916	Throttle Valve	
	32	P-16717	Screw—Throttle Valve Attach	
	41	P-22383	Choke Valve	
	42	P-23749	Choke Lever and Stem	
		P-10981	Screw—Choke Wire Clamp	
	44	P-24885	Main Body	
	45	382213	Throttle Body **No. 56-70** Idle Disch Holes (Complete with Throttle Stem and Valve)	(VAR)
	51	P-3278	Gas Union	
	52	P-7098	Plug—Vac Suction Channel	
	53	P-15458	Plug—Pump Channel No 10	
	54	P-12780	Plug—Idle Disch Channel	
	55	P-12870	High Speed Bleeder **No. 65**	(NOT VAR)
	56	P-8898	Screw—Vacuum Pump Adj	
	57	P-14618	Nut—Pump Adj Screw	
	58	P-26	Plug—Gas Inlet	

Bin Location	Key No	Part No	Part Name	
	59	P-6855	Gasket—Adj Metering Jet and Main Disch Jet	
	60	P-15540	Plug—Strainer	
	61	P-20235	Gasket—Strainer Plug	
	62	P-12958	Strainer	
	63	P-16761	Float Hanger	
	64	P-16872	Venturi Tube 7/8″	(VAR.)
	65	P-16871	Vent Tube	
	66	P-18962	Throttle Stem	
	67	P-6893-K	Throttle Stop	
		P-12375	Screw—Idle Adj	
		P-47	Screw—Idle Adj Screw Clamp	
	68	P-14646	Screw—Choke Tube Holder Attaching	
	69	P-15346	Lockwasher—Choke Tube Holder Attach Screw	
	70	P-12843	Choke Tube Holder	
		P-12865	Screw—Choke Tube Clamp	
		P-8806	Nut—Choke Tube Clamp Screw	
	71	P-14160	Washer—Idle Tube Cork	
	72	P-22713	Washer—Idle Tube	
	73	P-15457	Plug—Pump Channel	
	74	P-14745	Set Screw—Vent Tube	
	75	P-21029	Lockwasher—Choke Valve Attach Screw	
	76	49-S-13	Screw—Choke Valve Attach	
	77	P-13828	Bushing—Choke Lever Spacer	
	78	P-16161	Set Screw—Choke and Throttle Stem Collar	
	79	P-17081	Collar—Choke Stem and Throttle Stem	
	80	P-15459	Plug—Idle Channel	

FURNISHED EXTRA WITH EACH CARBURETOR

2	P-16318	Compression Union
	P-22394	Copper Tubing

NOTE—To eliminate Power System on Stationary or Industrial Engines but retain Accelerating Pump Action use P-23144 (Key No. 4) Vacuum Pump

BENDIX PRODUCTS DIVISION
SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

STROMBERG SF-1 CARBURETOR

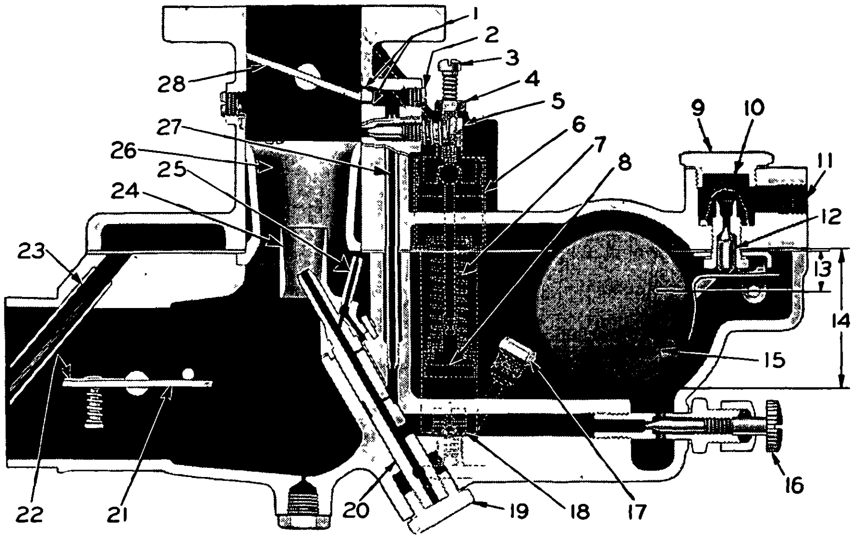
STROMBERG NO. A-18701 (CODE NO. 1-71)

SIZE: 1″ UPDRAFT S.A.E. 2-3/8″ FLANGE CENTERS TAPPED 5/16-18

STANDARD
SF-1
(Offset Choke)

PARTS ILLUSTRATED

1. Idle Discharge Holes
2. Idle Discharge Plug
3. Pump Adjustment Screw
4. Pump Adjustment Lock Screw
5. Idle Needle Valve
6. Vacuum Piston
7. Accelerating Pump Spring
8. Accelerating Pump Piston
9. Strainer Plug
10. Strainer
11. Gasoline Inlet
12. Float Needle Valve and Seat
13. Fuel Level (see instructions)
14. Float Setting (see instructions)
15. Float
16. Adjustable Metering Jet
17. Check Valve
18. Combination Power and Pump By-Pass Jet
19. Main Discharge Jet Nut
20. Main Discharge Jet
21. Choke Valve
22. Choke Poppet Valve
23. Vent Tube
24. Small Venturi
25. High Speed Bleed
26. Large Venturi
27. Idle Tube
28. Throttle Valve



Note—Specifications below are for latest production; previous major changes listed on parts page.

FUEL LEVEL—For measuring fuel level it is advisable to use an open vessel with a leveled top, large enough to support the throttle valve body and to accommodate the float assembly. Place main body gasket between body and vessel before checking. Connect gas line to inlet in throttle body and allow gas to feed into measuring vessel at **2 lbs.** pressure until flow is stopped by the closing of the float needle valve. Fuel level should measure **9/16″** below top surface of vessel (without gasket); use standard depth gauge for measuring fuel level. To correct fuel level hold throttle body in inverted position and set float to measure **1-15/16″** from top of float to gasket surface which will give approximate fuel level; change if necessary.

MAIN METERING SYSTEM — Venturi **7/8″**, P-16872; Main Discharge Jet **No. 32,** P-16873; (**Tool T-20139**) used to remove main discharge jet. High Speed Bleeder **No. 65,** P-12870; Main Metering Jet **Adjustable** P-12802. (Use new P-6855 main discharge jet gasket when replacing main discharge jet.)

POWER SYSTEM—Combination Power and Pump By-Pass Jet **.028″** P-16786 (**Tool T-20138**); Power System is brought into operation at **4″** to **6″** of manifold vacuum. Use **Tool T-23785** to remove pump inlet check valve.

ACCELERATION—Pump stroke adjusted by adjustment screw above pump vacuum piston. Screw "in" to shorten stroke, "out" to lengthen. Adjustment screw to be set **1/8″** below top surface of throttle body flange.

IDLE SYSTEM—Idle discharge holes **No. 56-70.** With throttle valve fully closed and **No. 56** drill in idle hole, edge of valve is located **Flush + — .004″** from **No. 56** drill. Idle tube **No. 70** P-16874; Adjust to smooth running, IN to make richer, OUT to make leaner.

NOTE—For use with governor, remove plug in flange to line up with vacuum channel in governor. For use without governor plug vacuum channels in flange and remove plug from barrel of carburetor.

FLANGE GASKET—P-24770.

SPECIAL TOOLS REQUIRED—T-20139 Main Discharge and Metering Jet; T-20138 By-Pass Jet socket wrench; T-20180 Main Discharge Jet plug socket wrench; T-23785 Check Valve socket wrench; T-20182 Bushing and Vent Tube Remover; T-24972 Pump Burette gauge.

MOTOR TUNE-UP DATA

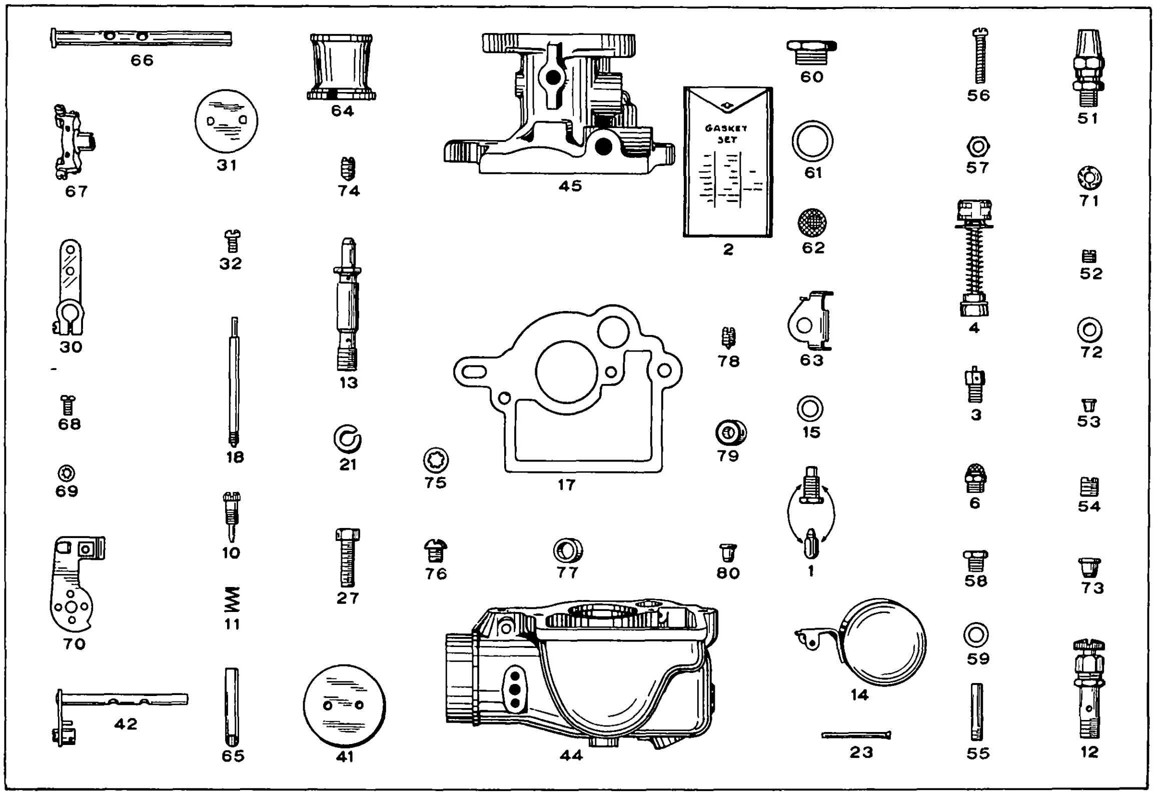
SPARK PLUG—
Clean and adjust at regular intervals.

DISTRIBUTOR—Set breaker gap. Replace points if necessary.

IGNITION TIMING—Use timing light.

VALVES—Intake: Exhaust: Adjust with engine hot.

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No	Part No	Part Name	
	1	**P-17282**	Float Needle Valve and Seat 113"	**(NOT VAR.)**
	2	**J-4269-G**	Complete Gasket Set	
	3	**P-16786**	Pump By Pass Jet **028"**	**(VAR)**
	4	**P-23133**	Vacuum Pump	
	4	**P-23135**	Pump Inlet Check Valve	
	10	**P-15396**	Idle Needle Valve	
	11	**P-12530**	Spring—Idle Needle Valve	
	12	**P-12802**	Adjustable Metering Jet	
	13	**P-16873**	Main Discharge Jet **No 32**	**(VAR)**
	14	**P-16767**	Float with Lever	
	15	**P-11572**	Gasket—Float Hanger and Float Needle Valve Seat	
	17	**P-16870**	Gasket—Main Body	
	18	**P-16874**	Idle Tube	
	21	**P-6592**	Lockwasher—Main Body Attach Screw	
	23	**P-16760**	Pin—Fulcrum—Float Lever	
	27	**P-16879**	Screw—Main Body Attaching	
	30	**P-5845-K**	Throttle Lever	
		P-3199	Screw—Throttle Lever Clamp	
	31	**P-17916**	Throttle Valve	
	32	**P-16717**	Screw—Throttle Valve Attach	
	41	**P-22383**	Choke Valve	
	42	**P-23749**	Choke Lever and Stem	
		P-10981	Screw—Choke Wire Clamp	
	44	**P-22381**	Main Body	
	45	**P-16860**	Throttle Body **No 56-70** Idle Disch Holes	**(VAR)**
	51	**P-3278**	Gas Union	
	52	**P-7098**	Plug—Vac Suction Channel	
	53	**P-15458**	Plug—Pump Channel No 10	
	54	**P-12780**	Plug—Idle Disch Channel	
	55	**P-12870**	High Speed Bleeder **No 65**	**(NOT VAR)**
	56	**P-8898**	Screw—Vacuum Pump Adj	
	57	**P-14618**	Nut—Pump Adj Screw	
	58	**P-26**	Plug—Gas Inlet	
	59	**P-6855**	Gasket—Adj Metering Jet and Main Disch Jet	
	60	**P-15540**	Plug—Strainer	
	61	**P-20235**	Gasket—Strainer Plug	
	62	**P-12958**	Strainer	
	63	**P-16761**	Float Hanger	
	64	**P-16872**	Venturi Tube **7/8"**	**(VAR)**
	65	**P-16871**	Vent Tube	
	66	**P-16875**	Throttle Stem	
	67	**P-6893-K**	Throttle Stop	
		P-12375	Screw—Idle Adj	
		P-47	Screw—Idle Adj Screw Clamp	
	68	**P-14646**	Screw—Choke Tube Holder Attaching	
	69	**P-15346**	Lockwasher—Choke Tube Holder Attach Screw	
	70	**P-12843**	Choke Tube Holder	
		P-12865	Screw—Choke Tube Clamp	
		P-8806	Nut—Choke Tube Clamp Screw	
	71	**P-14160**	Washer—Idle Tube Cork	
	72	**P-22713**	Washer—Idle Tube	
	73	**P-15457**	Plug—Pump Channel	
	74	**P-14745**	Set Screw—Vent Tube	
	75	**P-21029**	Lockwasher—Choke Valve Attach Screw	
	76	**49-S-13**	Screw—Choke Valve Attach	
	77	**P-13828**	Bushing—Choke Lever Spacer	
	78	**P-16161**	Set Screw—Choke Stem Collar	
	79	**P-17081**	Collar—Choke Stem	
	80	**P-15459**	Plug—Idle Channel	

FURNISHED EXTRA WITH EACH CARBURETOR

2 P-16318 Compression Union
P-22394 Copper Tubing

NOTE—To eliminate Power System on Stationary or Industrial Engines but retain Accelerating Pump Action use P-23144 (Key No 4) Vacuum Pump.

BENDIX PRODUCTS DIVISION
SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

Printed in U S A

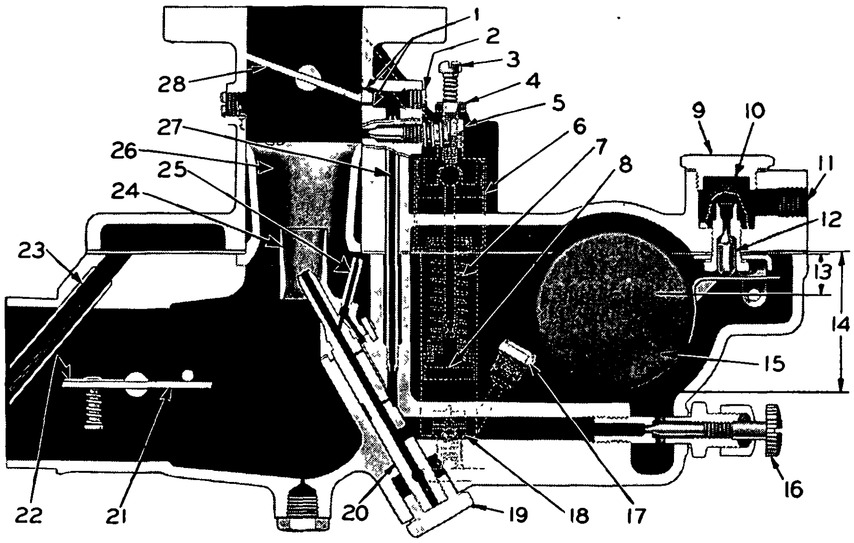
STROMBERG SF-2 CARBURETOR

STROMBERG NO. A-18702 (CODE NO. 1-70)

SIZE: 1-1/4" UPDRAFT S.A.E. 2-11/16" FLANGE CENTERS TAPPED 3/8-16

PARTS ILLUSTRATED

1. Idle Discharge Holes
2. Idle Discharge Plug
3. Pump Adjustment Screw
4. Pump Adjustment Lock Screw
5. Idle Needle Valve
6. Vacuum Piston
7. Accelerating Pump Spring
8. Accelerating Pump Piston
9. Strainer Plug
10. Strainer
11. Gasoline Inlet
12. Float Needle Valve and Seat
13. Fuel Level (see instructions)
14. Float Setting (see instructions)
15. Float
16. Adjustable Metering Jet
17. Check Valve
18. Combination Power and Pump By-Pass Jet
19. Main Discharge Jet nut
20. Main Discharge Jet
21. Choke Valve
22. Choke Poppet Valve
23. Vent Tube
24. Small Venturi
25. High Speed Bleed
26. Large Venturi
27. Idle Tube
28. Throttle Valve



Note—Specifications below are for latest production; previous major changes listed on parts page.

FUEL LEVEL—For measuring fuel level it is advisable to use on open vessel with a leveled top, large enough to support the throttle valve body and to accommodate the float assembly. Place main body gasket between body and vessel before checking. Connect gas line to inlet in throttle body and allow gas to feed into measuring vessel at **2 lbs.** pressure until flow is stopped by the closing of the float needle valve. Fuel level should measure **9/16"** below top surface of vessel (without gasket), use standard depth gauge for measuring fuel level. To correct fuel level hold throttle body in inverted position and set float to measure **1-31/32"** from top of float to gasket surface which will give approximate fuel level; change if necessary.

MAIN METERING SYSTEM—Venturi **1-1/32"**, P-16753; Main Discharge Jet **No. 32,** P-16773; (**Tool T-20180** used to remove main discharge jet plug). High Speed Bleeder **No. 60** P-16776; Main Metering Jet **Adjustable** P-12802. (Use new P-21372 main discharge jet gasket when replacing main discharge jet.)

POWER SYSTEM—Combination Power and Pump By-Pass Jet **.028"** P-16786 (**Tool T-20138**); Power System is brought into operation at **4"** to **6"** of manifold vacuum. Use Tool **T-23785** to remove pump inlet check valve.

ACCELERATION—Pump stroke adjusted by adjustment screw above pump vacuum piston. Screw "in" to shorten stroke, "out" to lengthen. Adjustment screw to be set **1/8"** below top surface of throttle body flange.

IDLE SYSTEM—Idle discharge holes **No. 58-66.** With throttle valve fully closed and **No. 58** drill in idle hole, edge of valve is located **Flush** + — **.004"** from **No. 58** drill. Idle tube **No. 68** P-16754; Adjust to smooth running, IN to make richer, OUT to make leaner.

NOTE—For use with governor, remove plug in flange to line up with vacuum channel in governor. For use without governor plug vacuum channels in flange and remove plug from barrel of carburetor.

FLANGE GASKET—P-24137.

SPECIAL TOOLS REQUIRED—T-20139 Main Discharge and Metering Jet; T-20138 By-Pass Jet socket wrench; T-20180 Main Discharge Jet plug socket wrench; T-23785 Check Valve socket wrench; T-20182 Bushing and Vent tube remover; T-24972 Pump Burette Gauge.

MOTOR TUNE-UP DATA

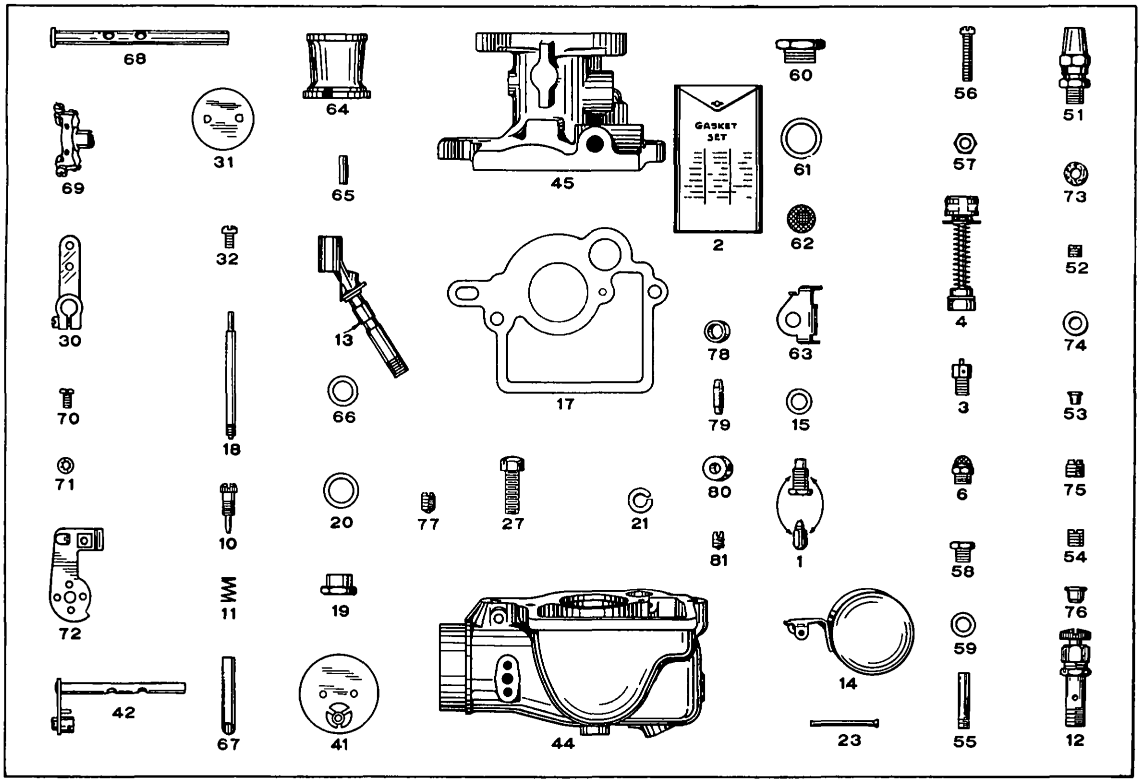
SPARK PLUG— Clean and adjust at regular intervals.

DISTRIBUTOR—Set breaker gap. Replace points if necessary.

IGNITION TIMING—Use timing light.

VALVES—Intake: Exhaust: Adjust with engine hot.

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No	Part No	Part Name	
	1	**P-17282**	Float Needle Valve and Seat 113″	**(NOT VAR)**
	2	**J-4222-G**	Complete Gasket Set	
	3	**P-16786**	Pump By Pass Jet 028″	**(VAR)**
	4	**P-23133**	Pump Piston Link and Spring (Complete)	
	6	**P-23135**	Pump Inlet Check Valve	
	10	**P-15396**	Idle Needle Valve	
	11	**P-12530**	Spring—Idle Needle Valve	
	12	**P-12802**	Adjustable Metering Jet	
	13	**P-16773**	Main Discharge Jet No 32	**(NOT VAR)**
	14	**P-16767**	Float with Lever	
	15	**P-11572**	Gasket—Float Needle Valve Seat	
	17	**P-16756**	Gasket—Main Body	
	18	**P-16754**	Idle Tube	
	19	**P-16762**	Plug—Main Discharge Jet	
	20	**P-5636**	Gasket—Main Discharge Jet Plug	
	21	**P-6592**	Lockwasher—Main Body Attach Screw	
	23	**P-16760**	Fulcrum Pin—Float Lever	
	27	**P-16765**	Screw—Main Body Attaching	
	30	**P-5856-K**	Throttle Lever and Stem	
		P-3199	Screw—Thro Lever Clamp	
	31	**P-16755**	Thro Valve	
	32	**P-16716**	Screw—Throttle Valve and Choke Valve Attaching	
	41	**P-22929**	Choke Valve	
	42	**P-22927**	Choke Stem and Lever	
		P-10981	Screw—Choke Wire Clamp	
	44	**P-22884**	Assy —Main Body	
	45	**P-16751**	Assy —Throttle Body **No 58-66** Idle Disch Holes	**(VAR)**
	51	**P-3278**	Gas Union	
	52	**P-7098**	Plug—Vac Suction Channel	
	53	**P-15458**	Plug—Pump Channel No 10	
	54	**P-12780**	Plug—Idle Disch Channel	
	55	**P-16776**	High Speed Bleeder **No 60**	**(VAR)**
	56	**P-5546**	Screw—Vacuum Pump Adj	
	57	**P-14618**	Nut—Pump Adj Screw	
	58	**P-26**	Plug—Gas Inlet	
	50	**P-6855**	Gasket—Adj Metering Jet	
	60	**P-17140**	Plug—Strainer	
	61	**P-22851**	Gasket—Strainer Plug	
	62	**P-12958**	Strainer—Gas	
	63	**P-16761**	Float Hanger	
	64	**P-16753**	Venturi Tube **1-1/32″**	**(VAR)**
	65	**P-16850**	Pin—Main Disch Jet Locating	
	66	**P-21372**	Gasket—Main Disch Jet	
	67	**P-16757**	Vent Tube	
	68	**P-16793**	Throttle Stem	
	69	**P-7041-K**	Throttle Stop	
		P-12375	Screw—Idle Adj	
		P-2266	Screw—Idle Adj	
	70	**P-14646**	Screw—Choke Tube Holder Attach	
	71	**P-15346**	Lockwasher—Choke Tube Holder Attach Screw	
	72	**P-12823**	Choke Tube Holder	
		P-12868	Screw—Choke Tube Clamp	
		P-8806	Nut—Choke Tube Clamp Screw	
	73	**P-14160**	Washer—Idle Tube (Cork)	
	74	**P-22713**	Washer—Idle Tube	
	75	**P-3292**	Plug—Gov Conn	
	76	**P-20454**	Plug—Idle Channel	
	77	**P-14745**	Set Screw—Vent Tube	
	78	**P-13828**	Bushing—Choke Lever Spacer	
	79	**P-3881**	Pin—Choke Stem	
	80	**P-17081**	Collar—Choke Stem	
	81	**P-16161**	Set Screw—Choke Stem Collar	
FURNISHED EXTRA WITH EACH CARBURETOR				
		P-16318	Compression Union	
		P-22394	Copper Tubing	

NOTE—To eliminate Power System on Stationary or Industrial Engine but retain Accelerating Pump Action use P-23144 (Key No 4) Vacuum Pump.

BENDIX PRODUCTS DIVISION

SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

Printed in U S A

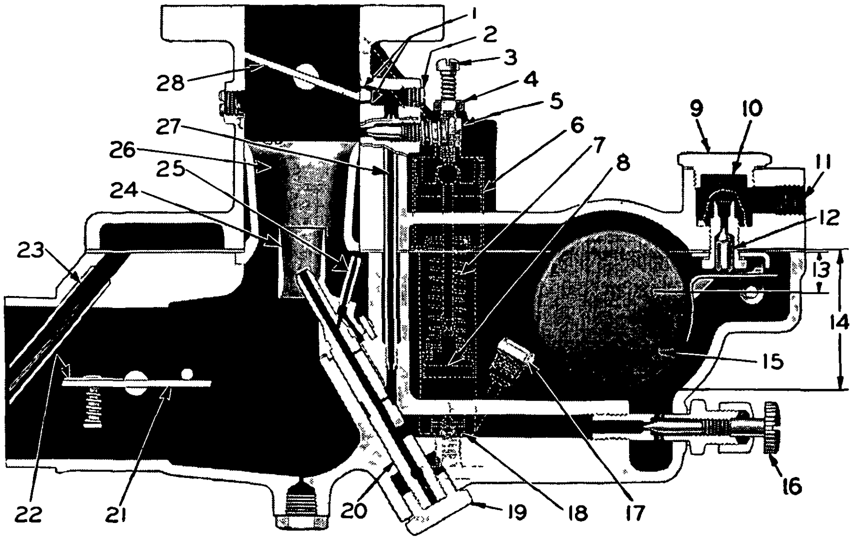
STROMBERG SF-3 CARBURETOR

STROMBERG NO. A-18703 (CODE NO. 1-69)

SIZE. 1-1/2" UPDRAFT S A.E. 2-15/16" FLANGE CENTERS TAPPED 3/8-16

PARTS ILLUSTRATED

1 Idle Discharge Holes
2 Idle Discharge Plug
3 Pump Adjustment Screw
4 Pump Adjustment Lock Screw
5 Idle Needle Valve
6 Vacuum Piston
7 Accelerating Pump Spring
8 Accelerating Pump Piston
9 Strainer Plug
10 Strainer
11 Gasoline Inlet
12 Float Needle Valve and Seat
13 Fuel Level (see instructions)
14 Float Setting (see instructions)
15 Float
16 Adjustable Metering Jet
17 Check Valve
18 Combination Power and Pump By Pass Jet
19 Main Discharge Jet Nut
20 Main Discharge Jet
21 Choke Valve
22 Choke Poppet Valve
23 Vent Tube
24 Small Venturi
25 High Speed Bleed
26 Large Venturi
27 Idle Tube
28 Throttle Valve



Note—Specifications below are for latest production; previous major changes listed on parts page.

FUEL LEVEL—For measuring fuel level it is advisable to use an open vessel with a leveled top, large enough to support the throttle valve body and to accommodate the float assembly Place main body gasket between body and vessel before checking. Connect gas line to inlet in throttle body and allow gas to feed into measuring vessel at **2 lbs.** pressure until flow is stopped by the closing of the float needle valve Fuel level should measure **7/8"** below top surface of vessel (without gasket), use standard depth gauge for measuring fuel level. To correct fuel level hold throttle body in inverted position and set float to measure **2-1/4"** from top of float to gasket surface which will give approximate fuel level, change if necessary.

MAIN METERING SYSTEM—Venturi **1-3/16"**, P-16845; Main Discharge Jet **No. 28,** P-16863, (**Tool T-20180**) used to remove main discharge jet plug High Speed Bleeder **No. 65,** P-14334, Main Metering Jet **Adjustable** P-12802. (Use new P-21372 main discharge jet gasket when replacing main discharge jet.)

POWER SYSTEM—Combination Power and Pump By-Pass Jet **.028"** P-16786 (**Tool T-20138**); Power System is brought into operation at **4"** to **6"** of manifold vacuum. Use **Tool T-23785** to remove pump inlet check valve.

ACCELERATION—Pump stroke adjusted by adjustment screw above pump vacuum piston Screw "in" to shorten stroke, "out" to lengthen. Adjustment screw to be set **1/8"** below top surface of throttle body flange.

IDLE SYSTEM—Idle discharge holes **No. 58-66.** With throttle valve fully closed and **No. 58** drill in idle hole, edge of valve is located **Flush + — .004"** from **No. 58** drill. Idle tube **No. 68** P-16847; Adjust to smooth running, IN to make richer, OUT to make leaner.

NOTE—For use with governor, remove plug in flange to line up with vacuum channel in governor. For use without governor plug vacuum channels in flange and remove plug from barrel of carburetor.

FLANGE GASKET—P-24136.

SPECIAL TOOLS REQUIRED—T-20139 Main Discharge and Metering Jet; T-20138 By-Pass Jet socket wrench; T-20180 Main Discharge Jet plug socket wrench, T-23785 Check Valve socket wrench, T-20182 Bushing and Vent Tube Remover, T-24972 Pump Burette gauge.

MOTOR TUNE-UP DATA

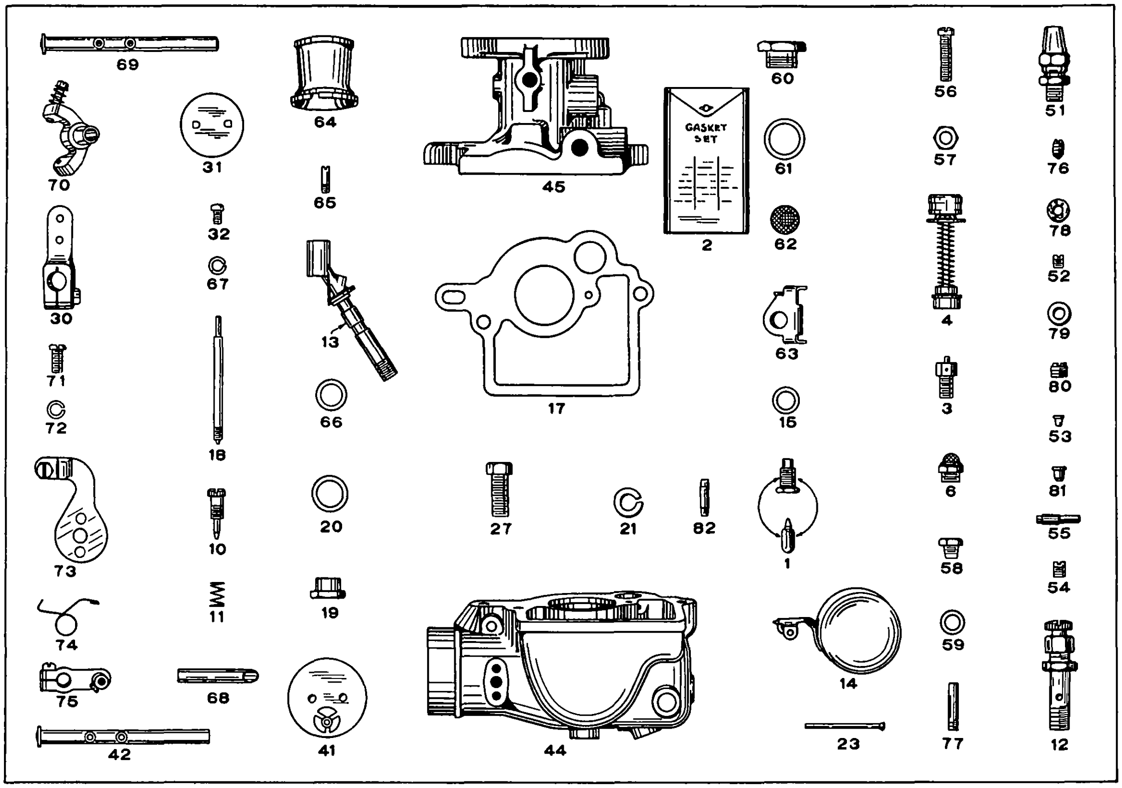
SPARK PLUG—
Clean and adjust at regular intervals.

DISTRIBUTOR—Set breaker gap. Replace points if necessary.

IGNITION TIMING—Use timing light.

VALVES—Intake: Exhaust: Adjust with ngine hot.

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No.	Part No	Part Name
	1	**P-17282**	Float Needle Valve and Seat 113″ **(NOT VAR.)**
	2	**J-4221-G**	Complete Gasket Set
	3	**P-16786**	Pump By Pass Jet .028″ **(VAR)**
	4	**P-23129**	Vacuum Pump
	6	**P-23135**	Pump Inlet Check Valve
	10	**P-15396**	Idle Needle Valve
	11	**P-12530**	Spring—Idle Needle Valve
	12	**P-12802**	Adjustable Metering Jet
	13	**P-16863**	Main Disch Jet and Small Venturi **No 28** **(VAR.)**
	14	**P-16851**	Float with Lever
	15	**P-11572**	Gasket—Float Hanger and Needle Valve Seat
	17	**P-16844**	Gasket—Main Body
	18	**P-16847**	Idle Tube **No. 68** **(VAR.)**
	19	**P-16762**	Nut—Main Discharge Jet
	20	**P-5636**	Gasket—Main Discharge Jet Nut
	21	**P-5364**	Lockwasher—Main Body Attach Screw
	23	**P-16760**	Pin—Fulcrum—Float Lever
	27	**P-16849**	Screw—Main Body Attaching
	30	**P-10001-K**	Throttle Lever
		P-15817	Screw—Throttle Lever Clamp
	31	**P-12251**	Throttle Valve
	32	**P-15259**	Screw—Throttle and Choke Valve Attaching
	41	**P-21758**	Choke Valve
	42	**P-22750**	Choke Lever Stem
	44	**P-19903**	Main Body
	45	**P-16842**	Throttle Body **No.** 58-66 Idle Disch Holes **(VAR)**
	51	**P-3278**	Gas Union
	52	**P-7098**	Plug—Vac Suction Channel
	53	**P-15458**	Plug—Pump Channel
	54	**P-12780**	Plug—Idle Disch Channel
	55	**P-16764**	Pin—Choke Valve Stop
	56	**P-19911**	Screw—Vacuum Pump Adj
	57	**P-14618**	Nut—Pump Adj Screw
	58	**P-26**	Plug—Gas Inlet
	59	**P-6855**	Gasket—Adj Metering Jet
	60	**P-17140**	Plug—Strainer
	61	**P-20235**	Gasket—Strainer Plug
	62	**P-12958**	Strainer—Gas
	63	**P-16761**	Float Hanger
	64	**P-16845**	Venturi Tube **1-3/16″** **(VAR)**
	65	**P-16850**	Pin—Main Disch Jet Locating
	66	**P-21372**	Gasket—Main Disch Jet
	67	**P-1693**	Lockwasher—Throttle and Choke Valve Att Screw
	68	**P-16848**	Vent Tube
	69	**P-16866**	Throttle Stem
	70	**P-18449**	Throttle Stop (Complete)
		P-18552	Screw—Idle Adj
		P-15831	Spring—Idle Adj Screw
	71	**P-16766**	Screw—Choke Tube Holder Attach
	72	**P-3157**	Lockwasher—Choke Tube Holder Attach Screw
	73	**P-16805**	Choke Tube Holder (Complete)
		P-16807	Screw—Choke Tube Clamp
	74	**P-16763**	Spring—Choke Valve Return
	75	**P-16799**	Choke Lever
		P-13046	Screw—Choke Wire Clamp
		P-18927	Screw—Choke Lever Clamp
	76	**P-14745**	Set Screw—Vent Tube
	77	**P-14334**	High Speed Bleeder **No. 65** **(VAR)**
	78	**P-14160**	Washer—Idle Tube Cork
	79	**P-22713**	Washer—Idle Tube
	80	**P-3292**	Plug—Vac Gov Conn
	81	**P-15459**	Plug—Idle Channel
	82	**P-3881**	Pin—Choke Stem End

FURNISHED EXTRA WITH EACH CARBURETOR

Part No	Part Name
2P-16318	Compression Union
P-22394	Copper Tubing

NOTE—To eliminate Power Systems on Stationary or Industrial Engines but retain Accelerating Pump Action use P-23146 (Key No 4) Vacuum Pump.

BENDIX PRODUCTS DIVISION
SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

STROMBERG SF-15 CARBURETOR

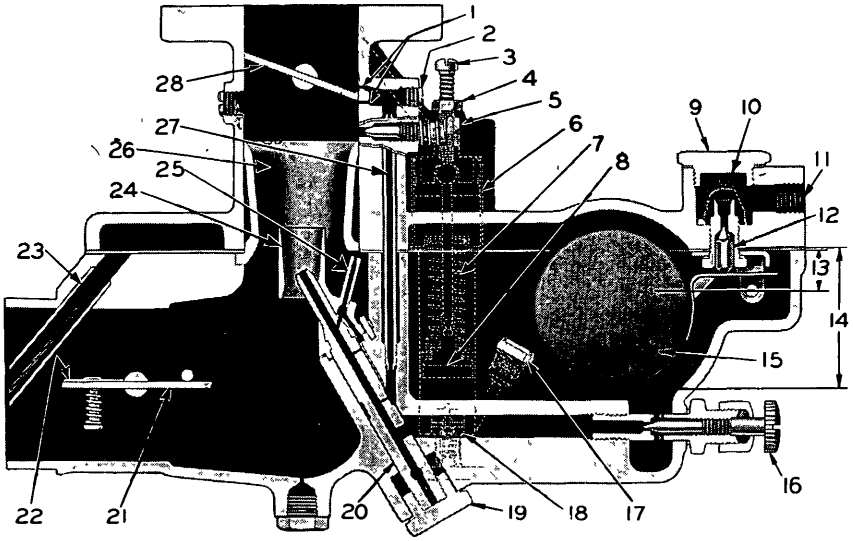
STROMBERG NO. A-18581 (CODE NO. 1-73A)

SIZE: 1″ UPDRAFT S.A.E. 2-3/8″ FLANGE CENTERS TAPPED 5/16-18

STANDARD
SF-15
(Automatic Choke)

PARTS ILLUSTRATED

1. Idle Discharge Holes
2. Idle Discharge Plug
3. Pump Adjustment Screw
4. Pump Adjustment Lock Screw
5. Idle Needle Valve
6. Vacuum Piston
7. Accelerating Pump Spring
8. Accelerating Pump Piston
9. Strainer Plug
10. Strainer
11. Gasoline Inlet
12. Float Needle Valve and Seat
13. Fuel Level (see instructions)
14. Float Setting (see instructions)
15. Float
16. Adjustable Metering Jet
17. Check Valve
18. Combination Power and Pump By-Pass Jet
19. Main Discharge Jet Nut
20. Main Discharge Jet
21. Choke Valve
22. Choke Poppet Valve
23. Vent Tube
24. Small Venturi
25. High Speed Bleed
26. Large Venturi
27. Idle Tube
28. Throttle Valve



Note—Specifications below are for latest production; previous major changes listed on parts page.

FUEL LEVEL—For measuring fuel level it is advisable to use an open vessel with a leveled top, large enough to support the throttle valve body and to accommodate the float assembly. Place main body gasket between body and vessel before checking. Connect gas line to inlet in throttle body and allow gas to feed into measuring vessel at **2 lbs.** pressure until flow is stopped by the closing of the float needle valve. Fuel level should measure **9/16″** below top surface of vessel (without gasket); use standard depth gauge for measuring fuel level. To correct fuel level hold throttle body in inverted position and set float to measure **1-15/16″** from top of float to gasket surface which will give approximate fuel level; change if necessary.

MAIN METERING SYSTEM — Venturi **7/8″**, P-16872; Main Discharge Jet **No. 32,** P-16873; (**Tool T-20139** used to remove main discharge jet. High Speed Bleeder **No. 65** P-12870; Main Metering Jet. **Adjustable** P-12802. (Use new P-6855 main discharge jet gasket when replacing main discharge jet.)

POWER SYSTEM—Combination Power and Pump By-Pass Jet **.028″** P-16786 (**Tool T-21038**); Power System is brought into operation at **4″** to **6″** of manifold vacuum. Use **Tool T-23785** to remove pump inlet check valve.

ACCELERATION—Pump stroke adjusted by adjustment screw above pump vacuum piston. Screw "in" to shorten stroke, "out" to lengthen. Adjustment screw to be set **1/8″** below top surface of throttle body flange.

IDLE SYSTEM—Idle discharge holes **No. 56-70.** With throttle valve fully closed and **No. 56** drill in idle hole, edge of valve is located **Flush** + — **.004″** from **No. 56** drill. Idle tube **No. 70** P-16874; Adjust to smooth running, IN to make richer, OUT to make leaner.

THERMOSTAT—To be set **12** notches rich from (Λ mark).

DEFLOODER ADJUSTMENT—With throttle valve held in wide open position choke valve should be opened from .198″ to .218″ or from **No. 8** drill to **No. 2** drill. Gauge at the offset side of choke valve. To adjust, bend choke stem pin to obtain correct setting.

NOTE—For use with governor, remove plug in flange to line up with vacuum channel in governor. For use without governor plug vacuum channels in flange and remove plug from barrel of carburetor.

FLANGE GASKET—P-24770.

SPECIAL TOOLS REQUIRED—T-20139 Main Discharge and Metering Jet; T-20138 By-Pass jet socket wrench; T-20180 Main Discharge Jet plug socket wrench; T-23785 Check valve socket wrench; T-20182 Bushing and vent tube remover; T-24972 Pump Burette gauge.

MOTOR TUNE-UP DATA

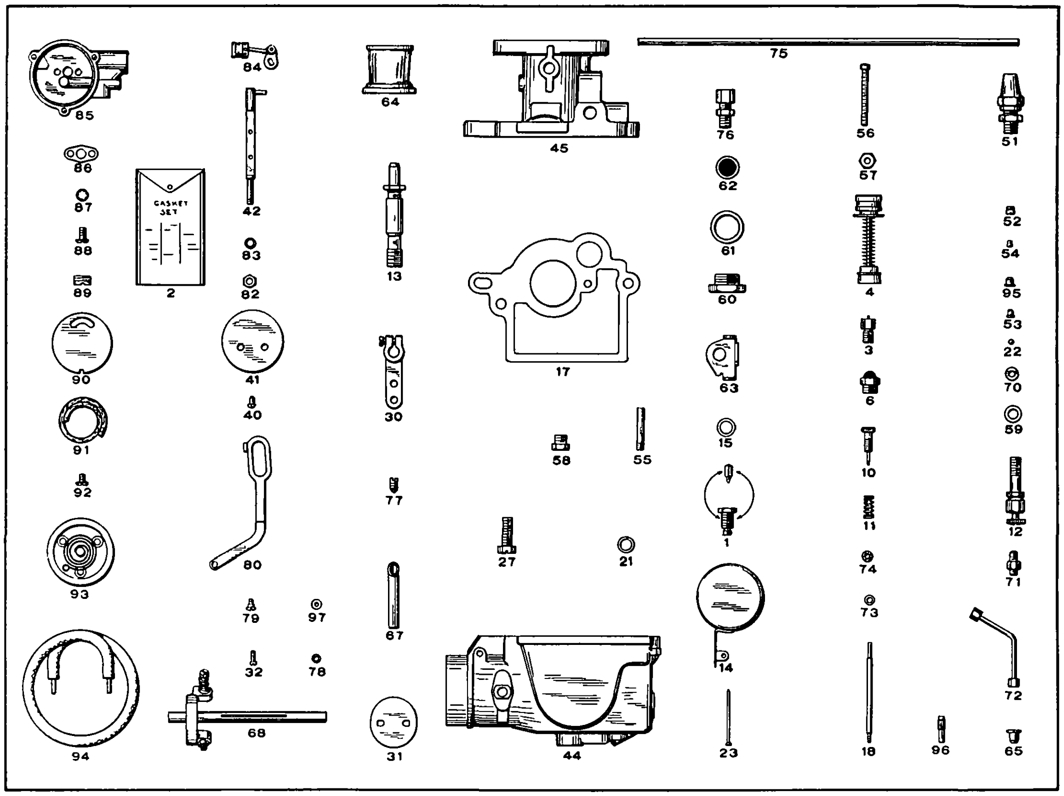
SPARK PLUG—
Clean and adjust at regular intervals.

DISTRIBUTOR—Set breaker gap. Replace points if necessary.

IGNITION TIMING—Use timing light.

VALVES—Intake: Exhaust: Adjust with engine hot.

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No	Part No	Part Name	
	1	**P-17282**	Float Needle Valve and Seat 113″	**(NOT VAR)**
	2	**J-4269-G**	Complete Gasket Set	
	3	**P-16786**	Pump By Pass Jet **028″**	**(VAR)**
	4	**P-23133**	Vacuum Pump	
	6	**P-23135**	Pump Inlet Check Valve	
	10	**P-15396**	Idle Needle Valve	
	11	**P-12530**	Spring—Idle Needle Valve	
	12	**P-12802**	Adjustable Metering Jet	
	13	**P-16873**	Main Discharge Jet **No. 32**	**(VAR)**
	14	**P-16767**	Float with Lever	
	15	**P-11572**	Gasket—Float Hanger and Float Needle Valve Seat	
	17	**P-16870**	Gasket—Main Body	
	18	**P-16874**	Idle Tube	
	21	**P-6592**	Lockwasher—Main Body Attach Screw	
	22	**P-18772**	Lead Ball	
	23	**P-16760**	Pin—Fulcrum—Float Lever	
	27	**P-16879**	Screw—Main Body Attaching	
	30	**P-23215**	Throttle Lever	
		P-3199	Screw—Throttle Lever Clamp	
	31	**P-17916**	Throttle Valve	
	32	**P-506**	Screw—Throttle Valve Attaching	
	40	**P-22573**	Screw—Choke Valve Attaching	
	41	**P-22383**	Choke Valve	
	42	**P-24131**	Choke Stem and Pin	
	44	**P-24130**	Main Body	
	45	**P-23372**	Throttle Body **No 56-70** Idle Disch Holes	**(VAR)**
	51	**P-3278**	Gas Union	
	52	**P-7098**	Plug—Vacuum Suction Channel	
	53	**P-15458**	Plug—Pump Channel No 10	
	54	**P-12780**	Plug—Idle Disch Channel	
	55	**P-12870**	High Speed Bleeder **No 60**	**(VAR)**
	56	**P-8898**	Screw—Vacuum Pump Adj	
	57	**P-14618**	Nut—Pump Adj Screw	
	58	**P-26**	Plug—Gas Inlet	
	59	**P-6855**	Gasket—Adj Metering Jet and Main Disch Jet	
	60	**P-15540**	Plug—Strainer	
	61	**P-20235**	Gasket—Strainer Plug	
	62	**P-12958**	Strainer—Gas	
	63	**P-16761**	Float Hanger	
	64	**P-16872**	Venturi Tube **7/8″**	**(VAR)**
	65	**P-15459**	Plug—Idle Channel	
	67	**P-16871**	Vent Tube	
	68	**P-23373**	Throttle Stem and Stop	
	70	**P-19815**	Washer—Fulcrum Screw Spring	
	71	**P-23370**	Nipple—Vacuum Tube	
	72	**P-23371**	Vacuum Tube	
	73	**P-22713**	Washer—Idle Tube	
	74	**P-14160**	Washer—Idle Tube (Cork)	
	75	**P-22394**	Copper Tubing	
	76	**P-16318**	Compression Union	
	77	**P-14745**	Set Screw—Vent Tube	
	78	**P-1693**	Lockwasher—Throttle Valve Attach Screw	
	79	**P-23381**	Screw—Choke Valve Kick Link Fulcrum	
	80	**P-23369**	Link—Choke Valve Kick	
	82	**P-16571**	Nut—Vacuum Piston Lever	
	83	**P-15875**	Lockwasher—Vacuum Piston Lever	
	84	**P-24113**	Vacuum Piston and Link	
	85	**P-24129**	Thermostat Unit Housing	
	86	**P-23053**	Gasket—Thermostat Housing	
	87	**P-15346**	Lockwasher—Therm Housing Attach Screw	
	88	**P-23122**	Screw—Therm Housing Attach	
	89	**P-23158**	Plug—Vacuum Piston Channel	
	90	**P-23051**	Plate—Electric Unit Baffle	
	91	**P-23052**	Insulator—Electric Unit	
	92	**P-21596**	Screw—Electric Unit Attach	
	93	**P-23386**	Electric Unit	
	94	**P-21987**	Automatic Choke Wire	
	95	**P-15457**	Plug—Idle Channel	
	96	**P-16764**	Pin—Choke Valve Stop	
	97	**P-24179**	Washer—Electric Unit Attach Screw	

NOTE—Thermostat and Electric Unit for 12-volt Systems is furnished under Part No. P-24280.

BENDIX PRODUCTS DIVISION
SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

STROMBERG SF-25 CARBURETOR

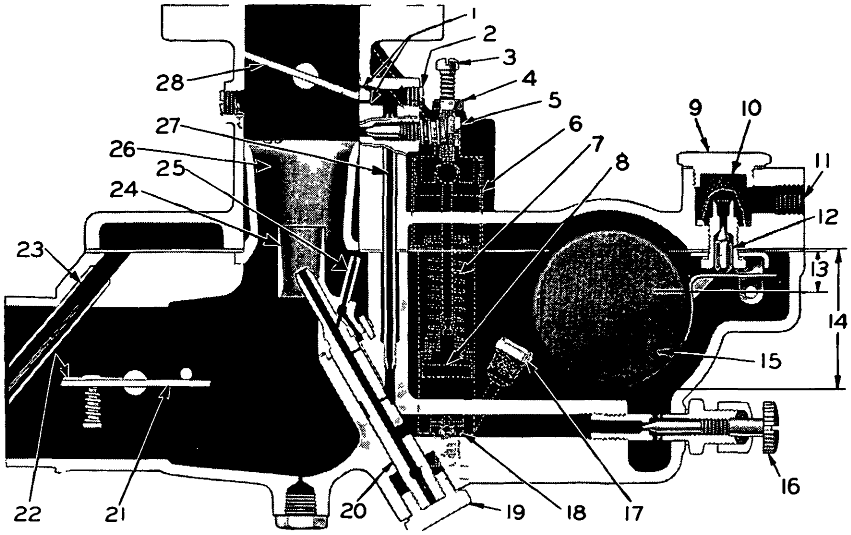
STANDARD
SF-25
(Automatic Choke)

STROMBERG NO A-18582 (CODE NO 1-74A)

SIZE 1-1/4″ UPDRAFT S A E 2-11/16′ FLANGE CENTERS TAPPED 3/8-16

PARTS ILLUSTRATED

1 Idle Discharge Holes
2 Idle Discharge Plug
3 Pump Adjustment Screw
4 Pump Adjustment Lock Screw
5 Idle Needle Valve
6 Vacuum Piston
7 Accelerating Pump Spring
8 Accelerating Pump Piston
9 Strainer Plug
10 Strainer
11 Gasoline Inlet
12 Float Needle Valve and Seat
13 Fuel Level (see instructions)
14 Float Setting (see instructions)
15 Float
16 Adjustable Metering Jet
17 Check Valve
18 Combination Power and Pump By Pass Jet
19 Main Discharge Jet nut
20 Main Discharge Jet
21 Choke Valve
22 Choke Poppet Valve
23 Vent Tube
24 Small Venturi
25 High Speed Bleed
26 Large Venturi
27 Idle Tube
28 Throttle Valve



Note—Specifications below are for latest production; previous major changes listed on parts page.

FUEL LEVEL—For measuring fuel level it is advisable to use on open vessel with a leveled top, large enough to support the throttle valve body and to accommodate the float assembly Place main body gasket between body and vessel before checking Connect gas line to inlet in throttle body and allow gas to feed into measuring vessel at **2 lbs.** pressure until flow is stopped by the closing of the float needle valve Fuel level should measure **9/16″** below top surface of vessel (without gasket), use standard depth gauge for measuring fuel level To correct fuel level hold throttle body in inverted position and set float to measure **1-31/32″** from top of float to gasket surface which will give approximate fuel level, change if necessary

MAIN METERING SYSTEM — Venturi **1-1/32″**, P-16753, Main Discharge Jet **No. 32**, P-16773, (**Tool T-20180** used to remove main discharge jet plug) High Speed Bleeder **No. 60** P-16776, Main Metering Jet **Adjustable** P-12802 (Use new P 21372 main discharge jet gasket when replacing main discharge jet)

POWER SYSTEM—Combination Power and Pump By-Pass Jet **.028″** P-16786 (**Tool T-20138**); Power System in brought into operation at **4″** to **6″** of manifold vacuum Use **Tool T-23785** to remove pump inlet check valve

ACCELERATION—Pump stroke adjusted by adjustment screw above pump vacuum piston Screw "in" to shorten stroke, "out" to lengthen Adjustment screw to be set **1/8″** below top surface of throttle body flange

IDLE SYSTEM—Idle discharge holes **No. 58-66.** With throttle valve fully closed and **No. 58** drill in idle hole, edge of valve is located **Flush** + — .004″ from **No. 58** drill Idle tube **No. 68** P 16754, Adjust to smooth running, IN to make richer, OUT to make leaner

THERMOSTAT—To be set **12** notches rich from (∧ mark)

DEFLOODER ADJUSTMENT—With throttle valve held in wide open position, choke valve should be opened from **.288″** to **.260″** or from a **17/64″** drill to a **9/32″** drill Gauge on offset side of choke valve Adjust by bending choke stem pin to obtain correct opening

NOTE—For use with governor, remove plug in flange to line up with vacuum channel in governor For use without governor plug vacuum channels in flange and remove plug from barrel of carburetor

FLANGE GASKET—P 24137

SPECIAL TOOLS REQUIRED—T 20139 Main Discharge and Metering Jet, T 20138 By-Pass jet socket wrench, T-20180 Main Discharge Jet plug socket wrench, T 23785 Check valve socket wrench, T-20182 Bushing and vent tube remover, T 24972 Pump Burette gauge

MOTOR TUNE-UP DATA

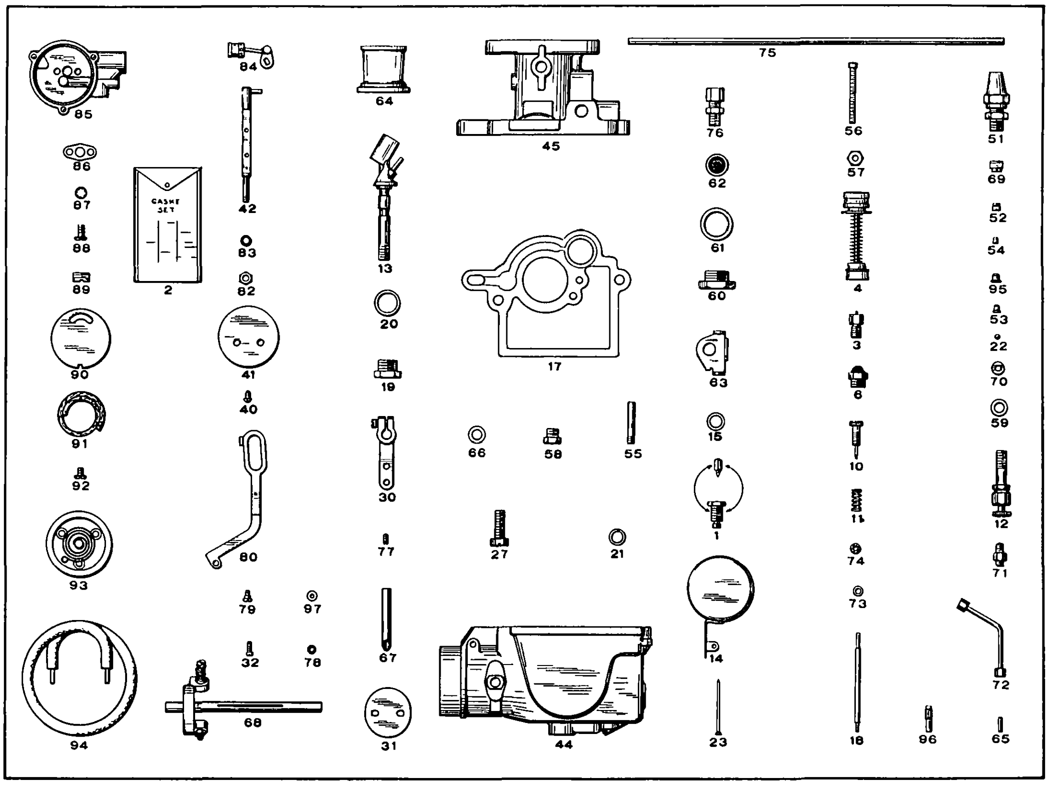
SPARK PLUG—
Clean and adjust at regular intervals.

DISTRIBUTOR—Set breaker gap. Replace points if necessary.

IGNITION TIMING—Use timing light.

VALVES—Intake: Exhaust: Adjust with engine hot.

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No	Part No	Part Name	
	1	P-17282	Float Needle Valve and Seat 113	(NOT VAR)
	2	J-4222-G	Complete Gasket Set	
	3	P-16786	Pump By Pass Jet 028″	(VAR)
	4	P 23133	Vacuum Pump	
	6	P-23135	Pump Inlet Check Valve	
	10	P-15396	Idle Needle Valve	
	11	P-12530	Spring—Idle Needle Valve	
	12	P-12802	Adjustable Metering Jet	
	13	P 16773	Main Disch Jet and Small Venturi **No 32**	(VAR)
	14	P-16767	Float with Lever	
	15	P-11572	Gasket—Float Hanger and Needle Valve Seat	
	17	P-16756	Gasket—Main Body	
	18	P-16754	Idle Tube	
	19	P-16762	Nut—Main Discharge Jet	
	20	P-5636	Gasket—Main Discharge Jet Nut	
	21	P-6592	Lockwasher—Main Body Attach Screw	
	22	P-18772	Lead Ball	
	23	P-16760	Pin—Fulcrum—Float Lever	
	27	P-16765	Screw—Main Body Attaching	
	30	P-14727	Throttle Lever	
		P-3199	Screw—Throttle Lever Clamp	
	31	P-16755	Throttle Valve	
	32	P-15259	Screw—Throttle Valve Attaching	
	40	P 22573	Screw—Choke Valve Attaching	
	41	P-19906	Choke Valve	
	42	P-24126	Choke Stem and Pin	
	44	P-24125	Main Body	
	45	P-23389	Throttle Body **No 58-66** Idle Disch Holes	(VAR)
	51	P-3278	Gas Union	
	52	P 7098	Plug—Vacuum Suction Channel	
	53	P-15458	Plug—Pump Channel No 10	
	54	P-12780	Plug—Idle Disch Channel	
	55	P 16776	High Speed Bleeder **No 60**	(VAR)
	56	P-5546	Screw—Vacuum Pump Adj	
	57	P-14618	Nut—Pump Adj Screw	
	58	P-26	Plug—Gas Inlet	
	59	P-6855	Gasket—Adj Metering Jet	
	60	P-17140	Plug—Strainer	
	61	P-22851	Gasket—Strainer Plug	
	62	P-12958	Strainer Gas	
	63	P-16761	Float Hanger	
	64	P-16753	Venturi Tube **1-1/32′**	(VAR)
	65	P-16850	Pin—Main Disch Jet Locating	
	66	P-21372	Gasket—Main Disch Jet	
	67	P-16757	Vent Tube	
	68	P-23390	Throttle Stem and Stop	
	69	P-3292	Plug—Gov Conn ⅛″	
	70	P-19815	Washer—Fulcrum Screw Spring	
	71	P-23370	Nipple—Vacuum Tube	
	72	P-23383	Vacuum Tube	
	73	P-22713	Washer—Idle Tube	
	74	P-14160	Washer—Idle Tube (Cork)	
	75	P-22394	Copper Tubing	
	76	P-16318	Compression Union	
	77	P-14745	Set Screw—Vent Tube	
	78	P-1693	Lockwasher—Throttle Valve Attach Screw	
	79	P-23381	Screw—Choke Valve Kick Link Fulcrum	
	80	P-23379	Link—Choke Valve Kick	
	82	P-16571	Nut—Vacuum Piston Lever	
	83	P-15875	Lockwasher—Vacuum Piston Lever	
	84	P-24133	Vacuum Piston and Link	
	85	P-24129	Thermostat Unit Housing	
	86	P-23053	Gasket—Thermostat Housing	
	87	P-15346	Lockwasher—Therm Housing Attach Screw	
	88	P 23122	Screw—Therm Housing Attach	
	89	P-23158	Plug—Vacuum Piston Channel	
	90	P-23051	Plate—Electric Unit Baffle	
	91	P-23052	Insulator—Electric Unit	
	92	P-21596	Screw—Electric Unit Attach	
	93	P-23386	Electric Unit	
	94	P-21987	Automatic Choke Wire	
	95	P-20454	Plug—Idle Channel	
	96	P-16764	Pin—Choke Valve Stop	
	97	P-24179	Washer—Electric Unit Attach Screw	

NOTE—Thermostat and Electric Unit for 12-volt Systems is furnished under Part No P-24280

BENDIX PRODUCTS DIVISION
SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

Printed in U S A

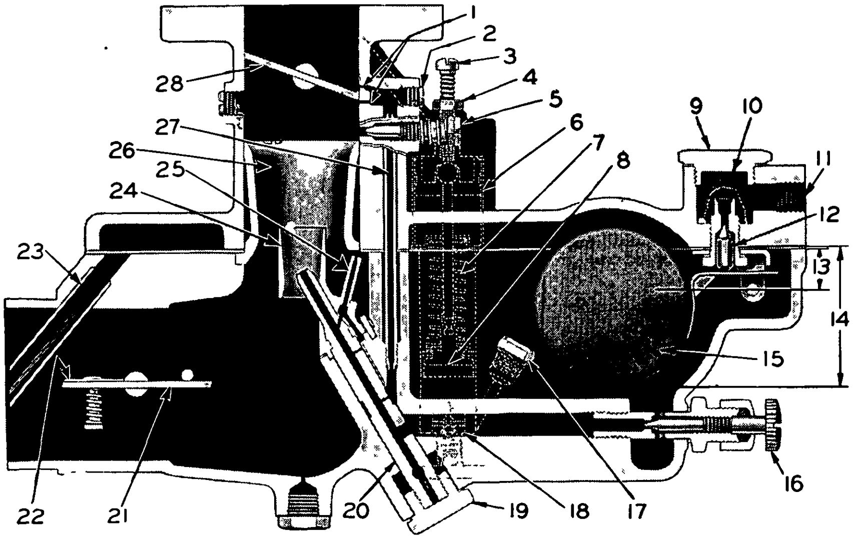
STROMBERG SF-35 CARBURETOR

STROMBERG NO. A-18583 (CODE NO. 1-75A)

SIZE: 1-1/2″ UPDRAFT S.A.E. 2-15/16″ FLANGE CENTERS TAPPED 3/8-16

PARTS ILLUSTRATED

1. Idle Discharge Holes
2. Idle Discharge Plug
3. Pump Adjustment Screw
4. Pump Adjustment Lock Screw
5. Idle Needle Valve
6. Vacuum Piston
7. Accelerating Pump Spring
8. Accelerating Pump Piston
9. Strainer Plug
10. Strainer
11. Gasoline Inlet
12. Float Needle Valve and Seat
13. Fuel Level (see instructions)
14. Float Setting (see instructions)
15. Float
16. Adjustable Metering Jet
17. Check Valve
18. Combination Power and Pump By-Pass Jet
19. Main Discharge Jet nut
20. Main Discharge Jet
21. Choke Valve
22. Choke Poppet Valve
23. Vent Tube
24. Small Venturi
25. High Speed Bleed
26. Large Venturi
27. Idle Tube
28. Throttle Valve



Note—Specifications below are for latest production; previous major changes listed on parts page.

FUEL LEVEL—For measuring fuel level it is advisable to use on open vessel with a leveled top, large enough to support the throttle valve body and to accommodate the float assembly. Place main body gasket between body and vessel before checking. Connect gas line to inlet in throttle body and allow gas to feed into measuring vessel at **2 lbs.** pressure until flow is stopped by the closing of the float needle valve. Fuel level should measure **7/8″** below top surface of vessel (without gasket); use standard depth gauge for measuring fuel level. To correct fuel level hold throttle body in inverted position and set float to measure **2-1/4″** from top of float to gasket surface which will give approximate fuel level; change if necessary.

MAIN METERING SYSTEM—Venturi **1-3/16″**, P-16845; Main Discharge Jet **No. 28,** P-16863; (**Tool T-20180** used to remove main discharge jet plug). High Speed Bleeder **No. 65** P-14334; Main Metering Jet. **Adjustable** P-12802. (Use new P-21372 main discharge jet gasket when replacing main discharge jet.)

POWER SYSTEM—Combination Power and Pump By-Pass Jet **.028″** P-16786 (**Tool T-20138**); Power System is brought into operation at **4″** to **6″** of manifold vacuum. Use **Tool T-23785** to remove pump inlet check valve.

ACCELERATION—Pump stroke adjusted by adjustment screw above pump vacuum piston. Screw "in" to shorten stroke, "out" to lengthen. Adjustment screw to be set **1/8″** below top surface of throttle body flange.

IDLE SYSTEM—Idle discharge holes **No. 58-66.** With throttle valve fully closed and **No. 58** drill in idle hole, edge of valve is located **Flush** + — **.004″** from **No. 58** drill. Idle tube **No. 68** P-16847; Adjust to smooth running, IN to make richer, OUT to make leaner.

THERMOSTAT—To be set **12** notches rich from (ʌ mark).

DEFLOODER ADJUSTMENT—With the throttle valve held in wide open position choke valve should be opened from **.267″** to **.295″** or from a **17/64″** drill to a **19/64″** drill. Gauge on offset side of choke valve. To adjust, bend choke stem pin to obtain correct setting.

NOTE—For use with governor, remove plug in flange to line up with vacuum channel in governor. For use without governor plug vacuum channels in flange and remove plug from barrel of carburetor.

FLANGE GASKET—P-24136.

SPECIAL TOOLS REQUIRED—T-20139 Main Discharge and Metering Jet; T-20138 By-Pass jet socket wrench; T-20180 Main Discharge Jet plug socket wrench; T-23785 Check Valve socket wrench; T-20182 Bushing and vent tube remover; T-23972 Pump Burette gauge.

MOTOR TUNE-UP DATA

SPARK PLUG— Clean and adjust at regular intervals.

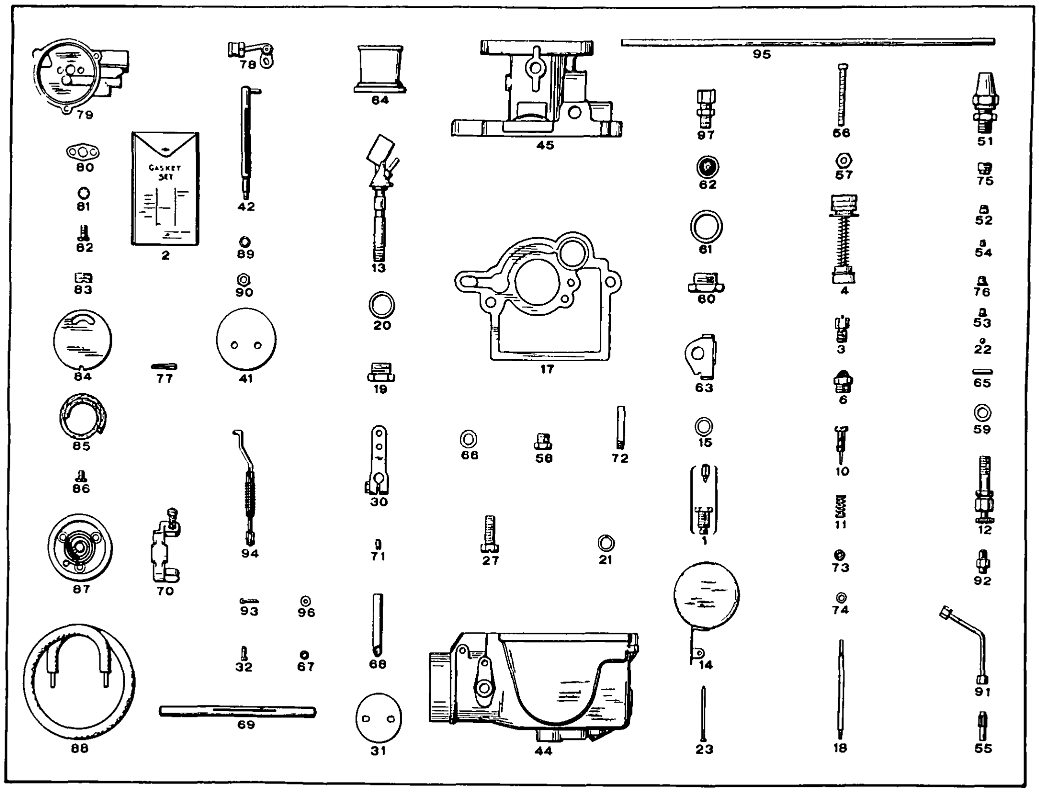
DISTRIBUTOR—Set breaker gap. Replac points if necessary.

IGNITION TIMING—Use timing light.

VALVES—Intake: Exhaust: Adjust with engine hot.

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No	Part No.	Part Name
	1	P-17282	Float Needle Valve and Seat 113″ (NOT VAR)
	2	J-4221-G	Complete Gasket Set
	3	P-16786	Pump By Pass Jet 028′ (VAR)
	4	P-23129	Vacuum Pump
	6	P-23135	Pump Inlet Check Valve
	10	P-15396	Idle Needle Valve
	11	P-12530	Spring—Idle Needle Valve
	12	P-12802	Adjustable Metering Jet
	13	P-16863	Main Disch Jet and Small Venturi **No** 28 (VAR)
	14	P-16851	Float with Lever
	15	P-11572	Gasket—Float Hanger and Float Needle Valve Seat
	17	P-16844	Gasket—Main Body
	18	P-16847	Idle Tube No 68 (NOT VAR)
	19	P-16762	Nut—Main Discharge Jet
	20	P-5636	Gasket—Main Discharge Jet Nut
	21	P-5364	Lockwasher—Main Body Attach Screw
	22	P-18772	Lead Ball
	23	P-16760	Pin—Fulcrum—Float Lever
	27	P-16849	Screw—Main Body Attaching
	30	P-19947	Throttle Lever
		P-15817	Screw—Throttle Lever Clamp
	31	P-12251	Throttle Valve
	32	P-15259	Screw—Throttle and Choke Valve Attaching
	41	P-24430	Choke Valve
	42	P-24123	Choke Lever Stem
	44	P-24122	Main Body
	45	P-23398	Throttle Body **No** 58-66 Idle Disch Holes (VAR)
	51	P-3278	Gas Union
	52	P-7098	Plug—Vac Suction Channel
	53	P-15458	Plug—Pump Channel
	54	P-12780	Plug—Idle Disch Channel
	55	P-16764	Pin—Choke Valve Stop
	56	P-19911	Screw—Vacuum Pump Adj
	57	P-14618	Nut—Pump Adj Screw
	58	P-26	Plug—Gas Inlet
	59	P-6855	Gasket—Adj Metering Jet
	60	P-17140	Plug—Strainer
	61	P-20235	Gasket—Strainer Plug
	62	P-12958	Strainer—Gas
	63	P-16761	Float Hanger

Bin Location	Key No	Part No	Part Name
	64	P-16845	Venturi Tube 1-3/16″ (VAR)
	65	P-16850	Pin—Main Disch Jet Locating
	66	P-21372	Gasket—Main Disch Jet
	67	P-1693	Lockwasher—Throttle and Choke Valve Att Screw
	68	P-16848	Vent Tube
	69	P-23400	Throttle Stem
	70	P-24174	Throttle Stop (Complete)
		P-18552	Screw—Idle Adjusting
		P-15831	Spring—Idle Adjusting Screw
	71	P-14745	Set Screw—Vent Tube
	72	P-14334	High Speed Bleeder **No** 65 (VAR)
	73	P-14160	Washer—Idle Tube Cork
	74	P-22713	Washer—Idle Tube
	75	P-3292	Plug—Vac Gov Conn
	76	P-15459	Plug—Idle Channel
	77	P-17187	Pin—Throttle Stop
	78	P-24113	Vacuum Piston and Link
	79	P-24110	Thermostat Unit Housing
	80	P-23410	Gasket—Thermostat Housing
	81	P-15346	Lockwasher—Thermostat Housing Attach Screw
	82	P-23122	Screw—Thermostat Housing Attach
	83	P-23158	Plug—Vacuum Piston Channel
	84	P-23051	Plate—Electric Unit Baffle
	85	P-23052	Insulator—Electric Unit
	86	P-21596	Screw—Electric Unit Attach
	87	P-23432	Thermostat and Electric Unit
	88	P-21987	Automatic Choke Wire
	89	P-15875	Lockwasher—Vacuum Piston Lever
	90	P-16571	Nut—Vacuum Piston Lever
	91	P-23397	Vacuum Tube
	92	P-23370	Nipple—Vacuum Tube
	93	P-7170	Cotter Pin—Choke Valve Kick Rod
	94	P-24134	Choke Valve Kick Rod
	95	P-22394	Copper Tubing
	96	P-24179	Washer—Electric Unit Attach Screw
	97	P-16318	Compression Union

NOTE—Thermostat and Electric Unit for 12-volt Systems is furnished under Part No P-23431

BENDIX PRODUCTS DIVISION
SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

STROMBERG SF-45 CARBURETOR

STANDARD

SF-45

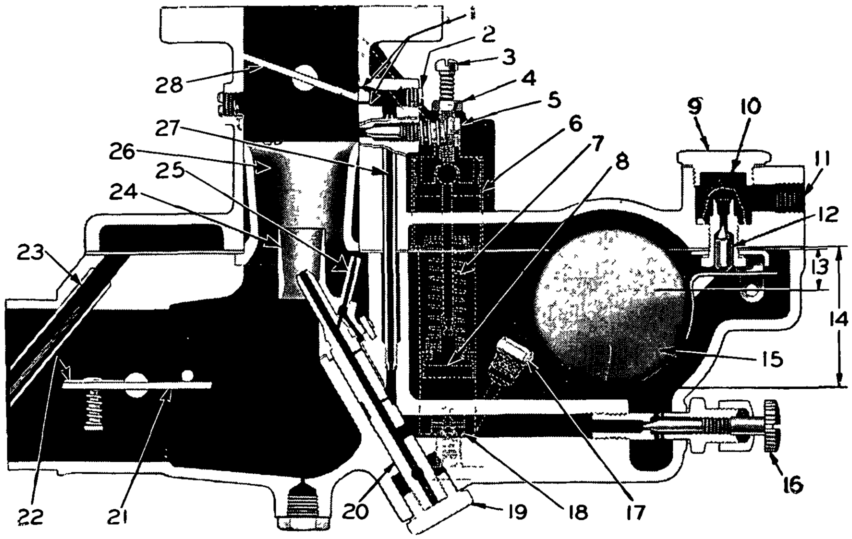
(Automatic Chok)

STROMBERG NO. A-18584 (CODE NO. 1-76A)

SIZE: 1-3/4″ UPDRAFT S.A.E. 3-5/16″ FLANGE CENTERS TAPPED 7/16-14

PARTS ILLUSTRATED

1. Idle Discharge Holes
2. Idle Discharge Plug
3. Pump Adjustment Screw
4. Pump Adjustment Lock Screw
5. Idle Needle Valve
6. Vacuum Piston
7. Accelerating Pump Spring
8. Accelerating Pump Piston
9. Strainer Plug
10. Strainer
11. Gasoline Inlet
12. Float Needle Valve and Seat
13. Fuel Level (see instructions)
14. Float Setting (see instructions)
16. Main Metering Jet
17. Check Valve
18. Combination Power and Pump By-Pass Jet
19. Main Discharge Jet Nut
20. Main Discharge Jet
21. Choke Valve
22. Choke Poppet Valve
23. Vent Tube
24. Small Venturi
25. High Speed Bleed
26. Large Venturi
27. Idle Tube
28. Throttle Valve



Not —Specifications below are for latest production; previous major changes listed on parts page.

FUEL LEVEL—For measuring fuel level it is advisable to use an open vessel with a leveled top, large enough to support the throttle valve body and to accommodate the float assembly. Place main body gasket between body and vessel before checking. Connect gas line to inlet in throttle body and allow gas to feed into measuring vessel at **2 lbs.** pressure until flow is stopped by the closing of the float needle valve. Fuel level should measure **7/8″** below top surface of vessel (without gasket); use standard depth gauge for measuring fuel level. To correct fuel level hold throttle body in inverted position and set float to measure **2-1/4″** from top of float to gasket surface which will give approximate fuel level; change if necessary.

MAIN METERING SYSTEM—Venturi **1-7/16″**, P-17498; Main Discharge Jet **No. 28**, P-17250; (**Tool T-20180** used to remove main disch. jet. plug). High Speed Bleeder **No. 65** P-16320; Main Metering Jet. **Adjustable** P-12802. (Use new P-21372 main disch. jet gasket when replacing main disch. jet.)

POWER SYSTEM—Combination Power and Pump By-Pass Jet **.046″** P-16786 (**Tool T-20138**); Power System is brought into operation at **4″** to **6″** of manifold vacuum. Use **Tool T-23785** to remove pump inlet check valve.

ACCELERATION—Pump stroke adjusted by adjustment screw above pump vacuum piston. Screw "in" to shorten stroke, "out" to lengthen. Adjustment screw to be set **1/8″** below top surface of throttle body flange.

IDLE SYSTEM—Idle discharge holes **No. 54-60.** With throttle valve fully closed the lower idle hole should be open from a **No. 64** to **No. 57** drill. Idle tube **No. 66** P-17497; Adjust to smooth running, IN to make richer, OUT to make leaner.

THERMOSTAT—To be set **10** notches rich from (^ mark).

DEFLOODER ADJUSTMENT—With throttle valve held in wide open position choke valve should be opened from **.350″** to **.388″** or from a **11/32″** drill to a **25/64″** drill. Gauge at offset side of choke valve. Adjust by bending choke stem pin to obtain correct setting.

NOTE—For use with governor, remove plug in flange to line up with vacuum channel in governor. For use without governor plug vacuum channels in flange and remove plug from barrel of carburetor.

FLANGE GASKET—P-24771.

SPECIAL TOOLS REQUIRED—T-20139 Main Disch. and Metering Jet; T-20138 By-Pass Jet Socket Wrench; T-20180 Main Disch. Jet Plug Socket Wrench; T-23785 Check Valve Socket Wrench; T-20182 Bushing and Vent Tube Remover; T-24972 Pump Burrette Gauge.

MOTOR TUNE-UP DATA

SPARK PLUG—
Clean and adjust at regular intervals.

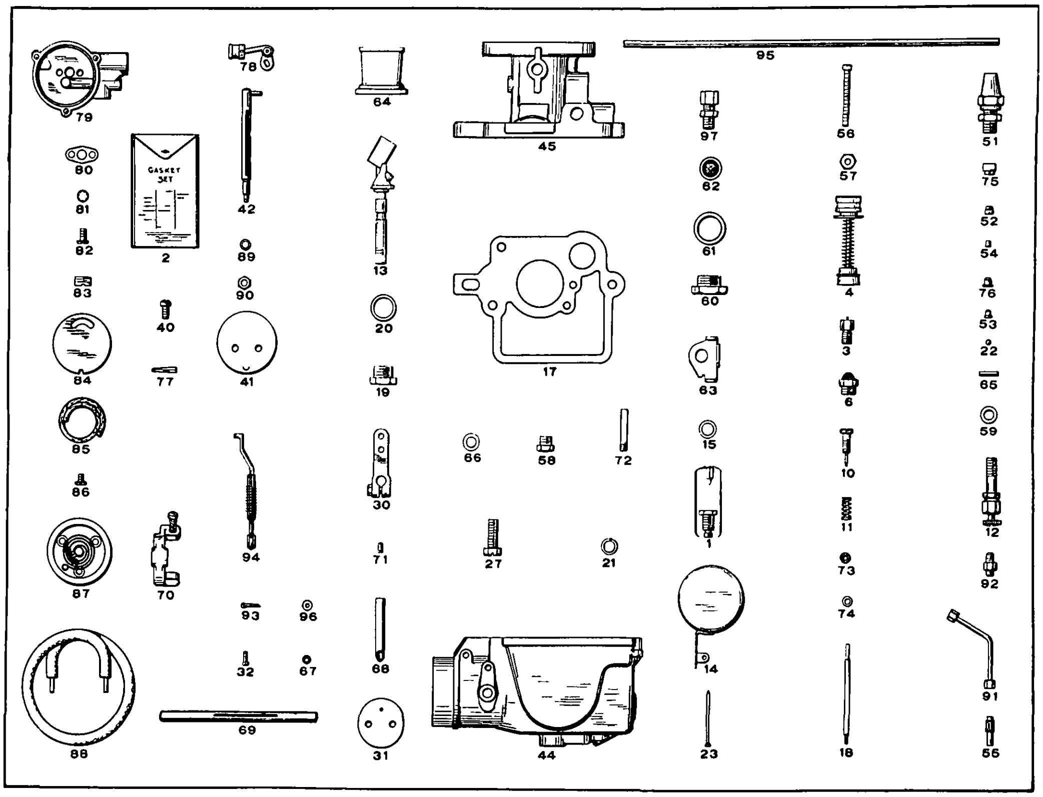
DISTRIBUTOR—Set breaker gap. Replace points if necessary.

IGNITION TIMING—Use timing light.

VALVES—Intake: Exhaust: Adjust with engine hot.

SERVICE RECOMMENDATION—Check heat control valv to see that it is free during its ntir travel and that thermostat is properly positioned.

STROMBERG CARBURETOR



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No.	Part No.	Part Name	
	1	**P-18811**	Float Needle Valve and Seat 140″	**(NOT VAR)**
	2	**J-4270-G**	Complete Gasket Set	
	3	**P-16786**	Pump By-Pass Jet .046″	**(VAR)**
	4	**P-23126**	Vacuum Pump	
	6	**P-23135**	Pump Inlet Check Valve	
	10	**P-15396**	Idle Needle Valve	
	11	**P-12530**	Spring—Idle Needle Valve	
	12	**P-12802**	Adjustable Metering Jet	
	13	**P-17250**	Main Disch Jet and Small Venturi **No** 28	**(VAR)**
	14	**P-17501**	Float with Lever	
	15	**P-14364**	Gasket—Float Hanger and Needle Valve Seat	
	17	**P-17496**	Gasket—Main Body	
	18	**P-17497**	Idle Tube No 66	**(NOT VAR)**
	19	**P-16762**	Nut—Main Discharge Jet	
	20	**P-5636**	Gasket—Main Discharge Jet Nut	
	21	**P-5364**	Lockwasher—Main Body Attach Screw	
	22	**P-18772**	Lead Ball	
	23	**P-16760**	Pin—Fulcrum—Float Lever	
	27	**P-16849**	Screw—Main Body Attaching	
	30	**P-19947**	Throttle Lever	
		P-15817	Screw—Throttle Lever Clamp	
	31	**P-23225**	Throttle Valve (21°)	**(NOT VAR)**
	32	**P-285**	Screw—Throttle Valve Attaching	
	40	**P-15259**	Screw—Choke Valve Attach	
	41	**P-23406**	Choke Valve	
	42	**P-24117**	Choke Lever Stem	
	44	**P-24115**	Main Body	
	45	**P-23412**	Throttle Body **No. 54-60** Idle Disch Holes	**(VAR.)**
	51	**P-3223**	Gas Union	
	52	**P-7098**	Plug—Vac Suction Channel	
	53	**P-15458**	Plug—Pump Channel	
	54	**P-12780**	Plug—Idle Disch Channel	
	55	**P-16764**	Pin—Choke Valve Stop	
	56	**P-19911**	Screw—Vacuum Pump Adj	
	57	**P-14618**	Nut—Pump Adj Screw	
	58	**P-8387**	Plug—Gas Inlet	
	59	**P-6855**	Gasket—Adj Metering Jet	
	60	**P-17140**	Plug—Strainer	
	61	**P-20235**	Gasket—Strainer Plug	
	62	**P-12958**	Strainer—Gas	
	63	**P-17500**	Float Hanger	
	64	**P-17498**	Venturi Tube **1-7/16″**	**(VAR)**
	65	**P-16850**	Pin—Main Disch Jet Locating	
	66	**P-21372**	Gasket—Main Disch Jet	
	67	**P-1693**	Lockwasher—Throttle and Choke Valve Att Screw	
	68	**P-17499**	Vent Tube	
	69	**P-23415**	Throttle Stem	
	70	**P-24174**	Throttle Stop (Complete)	
		P-18552	Screw—Idle Adj	
		P-15831	Spring—Idle Adj Screw	
	71	**P-14745**	Set Screw—Vent Tube	
	72	**P-16320**	High Speed Bleeder **No 65**	**(VAR)**
	73	**P-14160**	Washer—Idle Tube Cork	
	74	**P-22713**	Washer—Idle Tube	
	75	**P-3292**	Plug—Vac Gov Conn	
	76	**P-15459**	Plug—Idle Channel	
	77	**P-17187**	Pin—Throttle Stop	
	78	**P-24113**	Vacuum Piston and Link	
	79	**P-24110**	Thermostat Unit Housing	
	80	**P-23410**	Gasket—Thermostat Housing	
	81	**P-15346**	Lockwasher—Thermostat Housing Attach Screw	
	82	**P-23122**	Screw—Thermostat Housing Attach	
	83	**P-23158**	Plug—Vacuum Piston Channel	
	84	**P-23051**	Plate—Electric Unit Baffle	
	85	**P-23052**	Insulator—Electric Unit	
	86	**P-21596**	Screw—Electric Unit Attach	
	87	**P-24173**	Thermostat and Electric Unit	
	88	**P-21987**	Automatic Choke Wire	
	89	**P-15875**	Lockwasher—Vacuum Piston Lever	
	90	**P-16571**	Nut—Vacuum Piston Lever	
	91	**P-23405**	Vacuum Tube	
	92	**P-23370**	Nipple—Vacuum Tube	
	93	**P-7170**	Cotter Pin—Choke Valve Kick Rod	
	94	**P-24112**	Choke Valve Kick Rod	
	95	**P-22394**	Copper Tubing	
	96	**P-24179**	Washer—Electric Unit Attach Screw	
	97	**P-16318**	Compression Union	

NOTE. Thermostat and Electric Unit for 12-volt Systems is furnished under Part No 24111

BENDIX PRODUCTS DIVISION
SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

Printed in U. S. A.

STROMBERG SF-55 CARBURETOR

STANDARD

SF-55

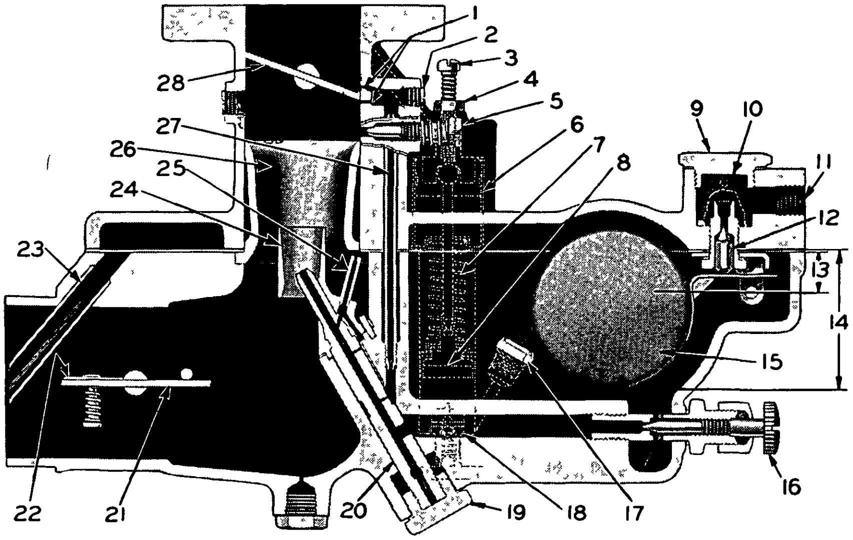
(Automatic Choke)

STROMBERG NO. A-18585 (CODE NO. 1-77A)

SIZE: 2″ UPDRAFT S.A.E. 3-9/16″ FLANGE CENTERS TAPPED 7/16-14

PARTS ILLUSTRATED

1. Idle Discharge Holes
2. Idle Discharge Plug
3. Pump Adjustment Screw
4. Pump Adjustment Lock Screw
5. Idle Needle Valve
6. Vacuum Piston
7. Accelerating Pump Spring
8. Accelerating Pump Piston
9. Strainer Plug
10. Strainer
11. Gasoline Inlet
12. Float Needle Valve and Seat
13. Fuel Level (see instructions)
14. Float Setting (see instructions)
16. Main Metering Jet
17. Check Valve
18. Combination Power and Pump By-Pass Jet
19. Main Discharge Jet Nut
20. Main Discharge Jet
21. Choke Valve
22. Choke Poppet Valve
23. Vent Tube
24. Small Venturi
25. High Speed Bleed
26. Large Venturi
27. Idle Tube
28. Throttle Valve



Note—Specifications below are for latest production; previous major changes listed on parts page.

FUEL LEVEL—For measuring fuel level it is advisable to use on open vessel with a leveled top, large enough to support the throttle valve body and to accommodate the float assembly. Place main body gasket between body and vessel before checking. Connect gas line to inlet in throttle body and allow gas to feed into measuring vessel at **2 lbs.** pressure until flow is stopped by the closing of the float needle valve. Fuel level should measure **7/8″** below' top surface of vessel (without gasket); use standard depth gauge for measuring fuel level. To correct fuel level hold throttle body in inverted position and set float to measure **2-9/32″** from top of float to gasket surface which will give approximate fuel level; change if necessary.

MAIN METERING SYSTEM — Venturi **1-1/2″**, P-17739; Main Discharge Jet **No. 28,** P-17250; (**Tool T-20180** used to remove main disch. jet plug). High Speed Bleeder **No. 65** P-16320; Main Metering Jet **Adjustable** P-15478. (Use new P-21372 main disch. jet gasket when replacing main disch. jet.)

POWER SYSTEM—Combination Power and Pump By-Pass Jet **.048″** P-16786 (**Tool T-20138**); Power System is brought into operation at **4″** to **6″** of manifold vacuum. Use **Tool T-23785** to remove pump inlet check valve.

ACCELERATION—Pump stroke adjusted by adjustment screw above pump vacuum piston. Screw "in" to shorten stroke, "out" to lengthen. Adjustment screw to be set **1/8″** below top surface of throttle body flange.

IDLE SYSTEM—Idle discharge holes **No. 54-60.** With throttle valve fully closed the lower idle hole should be open from a **No. 64** to **No. 57** drill. Idle tube **No. 66** P-17497; Adjust to smooth running, IN to make richer, OUT to make leaner.

THERMOSTAT—To be set **10** notches rich from (v mark).

DEFLOODER ADJUSTMENT—With throttle valve held in wide open position choke valve to be opened from **.350″** to **.388″** or from **11/32″** drill to a **25/64″** drill. Gauge on offset side of choke valve. To adjust, bend choke stem pin to obtain correct setting.

NOTE—For use with governor, remove plug in flange to line up with vacuum channel in governor. For use without governor plug vacuum channels in flange and remove plug from barrel of carburetor.

FLANGE GASKET—P-24772.

SPECIAL TOOLS REQUIRED—T-20139 Main Disch. and Metering Jet; T-20138 By-Pass Jet Socket Wrench; T-20180 Main Disch. Jet Plug Socket Wrench; T-23785 Check Valve Socket Wrench; T-20182 Bushing and Vent Tube Remover; T-24972 Pump Burrette Gauge.

MOTOR TUNE-UP DATA

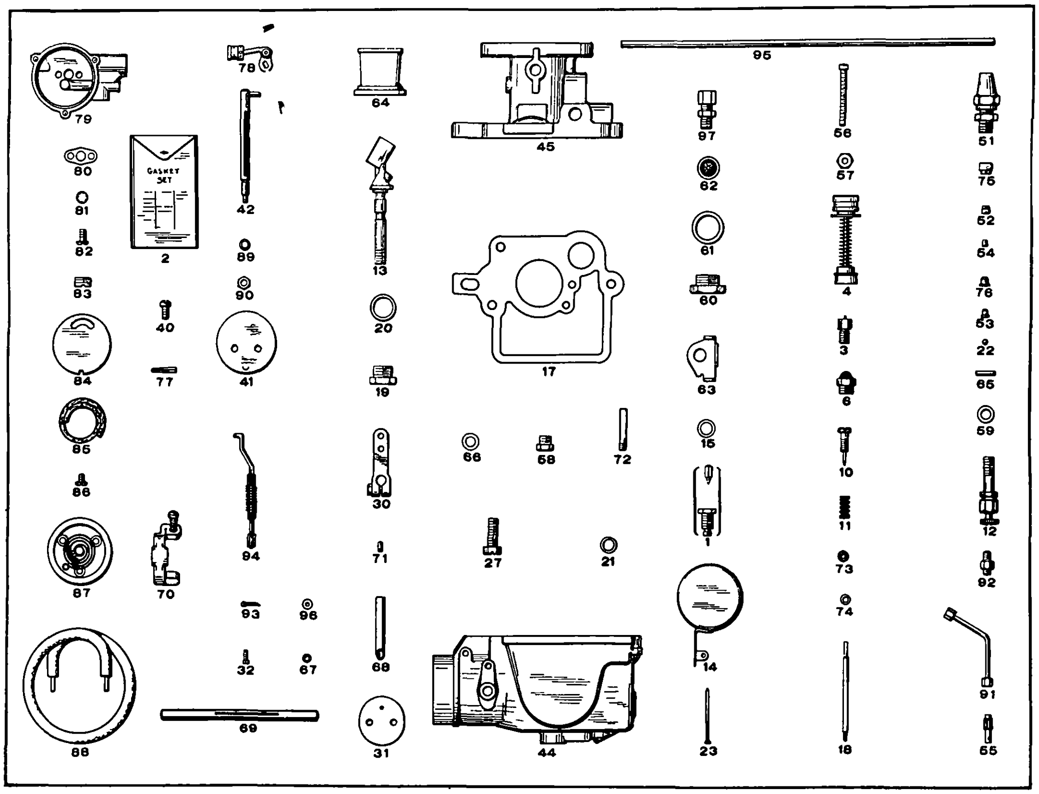
SPARK PLUG—
Clean and adjust at regular intervals.

DISTRIBUTOR—Set breaker gap. Replace points if necessary.

IGNITION TIMING—Use timing light.

VALVES—Intake: Exhaust: Adjust with engine hot.

SERVICE RECOMMENDATION—Check heat control valve to see that it is free during its entire travel and that thermostat is properly positioned.



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No.	Part No.	Part Name	
	1	**P-18812**	Float Needle Valve and Seat 160″	**(NOT VAR)**
	2	**J-4271-G**	Complete Gasket Set	
	3	**P-16786**	Pump—By Pass Jet **048″**	**(VAR)**
	4	**P-23126**	Vacuum Pump	
	6	**P-23135**	Pump Inlet Check Valve	
	10	**P-15396**	Idle Needle Valve	
	11	**P-12530**	Spring—Idle Needle Valve	
	12	**P-15748**	Adjustable Metering Jet	
	13	**P-17250**	Main Disch Jet and Small Venturi **No 28**	**(VAR)**
	14	**P-17501**	Float with Lever	
	15	**P-14364**	Gasket—Float Hanger and Needle Valve Seat	
	17	**P-17585**	Gasket—Main Body	
	18	**P-17497**	Idle Tube No 66	**(NOT VAR)**
	19	**P-16762**	Nut—Main Discharge Jet	
	20	**P-5636**	Gasket—Main Discharge Jet Nut	
	21	**P-5364**	Lockwasher—Main Body Attach Screw	
	22	**P-18772**	Lead Ball	
	23	**P-16760**	Pin—Fulcrum—Float Lever	
	27	**P-16849**	Screw—Main Body Attaching	
	30	**P-19947**	Throttle Lever	
		P-15817	Screw—Throttle Lever Clamp	
	31	**P-16065**	Throttle Valve (21°)	**(NOT VAR)**
	32	**P-285**	Screw—Throttle Valve Attaching	
	40	**P-15259**	Screw—Choke Valve Attaching	
	41	**P-23406**	Choke Valve	
	42	**P-24117**	Choke Lever Stem	
	44	**P-24115**	Main Body	
	45	**P-23416**	Throttle Body **No. 54-60** Idle Disch Holes	**(VAR)**
	51	**P-3223**	Gas Union	
	52	**P-7098**	Plug—Vac Suction Channel	
	53	**P-15458**	Plug—Pump Channel	
	54	**P-12780**	Plug—Idle Disch Channel	
	55	**P-16764**	Pin—Choke Valve Stop	
	56	**P-19911**	Screw—Vacuum Pump Adj	
	57	**P-14618**	Nut—Pump Adj Screw	
	58	**P-8387**	Plug—Gas Inlet	
	59	**P-6855**	Gasket—Adj Metering Jet	
	60	**P-17140**	Plug—Strainer	
	61	**P-20235**	Gasket—Strainer Plug	
	62	**P-12958**	Strainer—Gas	
	63	**P-17500**	Float Hanger	
	64	**P-17739**	Venturi Tube **1-1/2″**	**(VAR)**
	65	**P-16850**	Pin—Main Disch Jet Locating	
	66	**P-21372**	Gasket—Main Disch Jet	
	67	**P-1693**	Lockwasher—Throttle and Choke Valve Att Screw	
	68	**P-17499**	Vent Tube	
	69	**P-23418**	Throttle Stem	
	70	**P-24174**	Throttle Stop (Complete)	
		P-18552	Screw—Idle Adj	
		P-15831	Spring—Idle Adj Screw	
	71	**P-14745**	Set Screw—Vent Tube	
	72	**P-16320**	High Speed Bleeder **No 65**	**(VAR.)**
	73	**P-14160**	Washer—Idle Tube Cork	
	74	**P-22713**	Washer—Idle Tube	
	75	**P-3292**	Plug—Vac Gov Conn	
	76	**P-15459**	Plug—Idle Channel	
	77	**P-17187**	Pin—Throttle Stop	
	78	**P-24113**	Vacuum Piston and Link	
	79	**P-24110**	Thermostat Unit Housing	
	80	**P-23410**	Gasket—Thermostat Housing	
	81	**P-15346**	Lockwasher—Thermostat Housing Attach Screw	
	82	**P-23122**	Screw—Thermostat Housing Attach	
	83	**P-23158**	Plug—Vacuum Piston Channel	
	84	**P-23051**	Plate—Electric Unit Baffle	
	85	**P-23052**	Insulator—Electric Unit	
	86	**P-21596**	Screw—Electric Unit Attach	
	87	**P-24173**	Thermostat and Electric Unit	
	88	**P-21987**	Automatic Choke Wire	
	89	**P-15875**	Lockwasher—Vacuum Piston Lever	
	90	**P-16571**	Nut—Vacuum Piston Lever	
	91	**P-23419**	Vacuum Tube	
	92	**P-23370**	Nipple—Vacuum Tube	
	93	**P-7170**	Cotter Pin—Choke Valve Kick Rod	
	94	**P-24112**	Choke Valve Kick Rod	
	95	**P-22394**	Copper Tubing	
	96	**P-24179**	Washer—Electric Unit Attach. Screw	
	97	**P-16318**	Compression Union	

NOTE: *Thermostat and Electric Unit for 12-volt Systems is furnished under Part No P-24111.*

BENDIX PRODUCTS DIVISION

SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

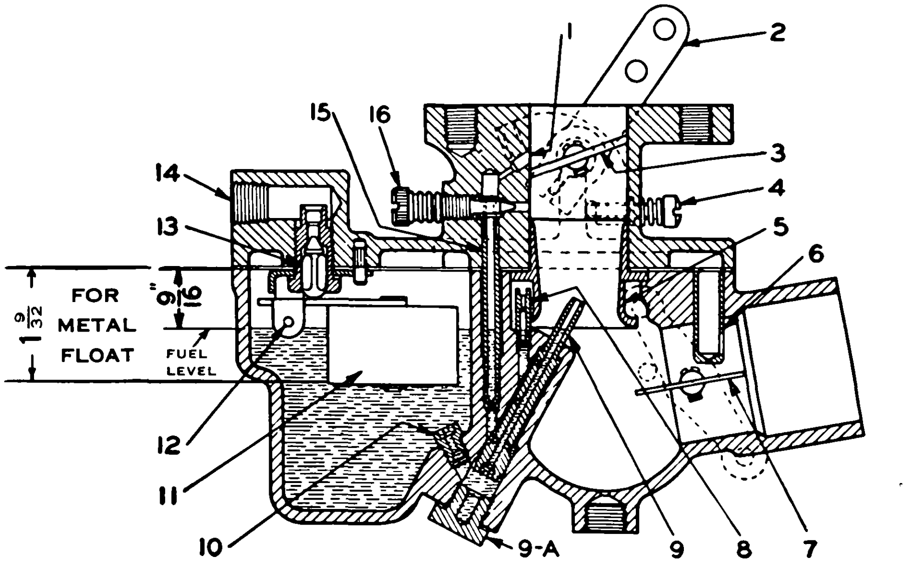
STROMBERG "UR-3/4" CARBURETOR

STROMBERG NO. A-14770 (CODE NO. 1-3)

SIZE: 3/4" UPDRAFT S.A.E. 2-1/4" FLANGE CENTER TAPPED 5/16-18

PARTS ILLUSTRATED

1. Idle Discharge Hole
2. Throttle Lever
3. Throttle Valve
4. Throttle Stop Screw
5. Venturi Tube
6. Vent Tube
7. Choke Valve
8. High Speed Bleeder
9. Main Discharge Jet
10. Main Metering Jet
11. Float
12. Float Fulcrum Pin
13. Float Needle and Seat
14. Gasoline Inlet
15. Idle Tube
16. Idle Needle Valve



Note—Specifications below are for latest production, previous major changes listed on Parts Page.

FUEL LEVEL—For measuring fuel level it is advisable to use on open vessel with a leveled top, large enough to support the throttle valve body and to accommodate the float assembly. Place main body gasket between body and vessel before checking. Connect gas line to inlet in throttle body and allow gas to feed into measuring vessel at **1/2 lb.** pressure until flow is stopped by the closing of the float needle valve. Fuel level should measure **9/16"** below top surface of vessel (without gasket); use standard depth gauge for measuring fuel level. To correct fuel level hold throttle body in inverted position and set float to measure **1-9/32"** from top of float to gasket surface which will give approximate fuel level; change if necessary.

MAIN METERING SYSTEM—Venturi **3/4",** P-16326; Main Discharge Jet **No. 52,** P-16915; (**Tool T-25033** used to remove main disch. jet plug). High Speed Bleeder **No. 60** P-16327; Main Metering Jet **.048"** P-16362. (Use new P-9600 main disch. jet gasket when replacing main disch. jet.)

IDLE SYSTEM—Idle discharge hole **No. 72.** Idle tube **No. 72** P-16345; Adjust to smooth running, IN to make richer, OUT to make leaner.

FLANGE GASKET—P-23727—9/32" Stud holes. P-23728—11/32" Stud holes.

MOTOR TUNE-UP DATA

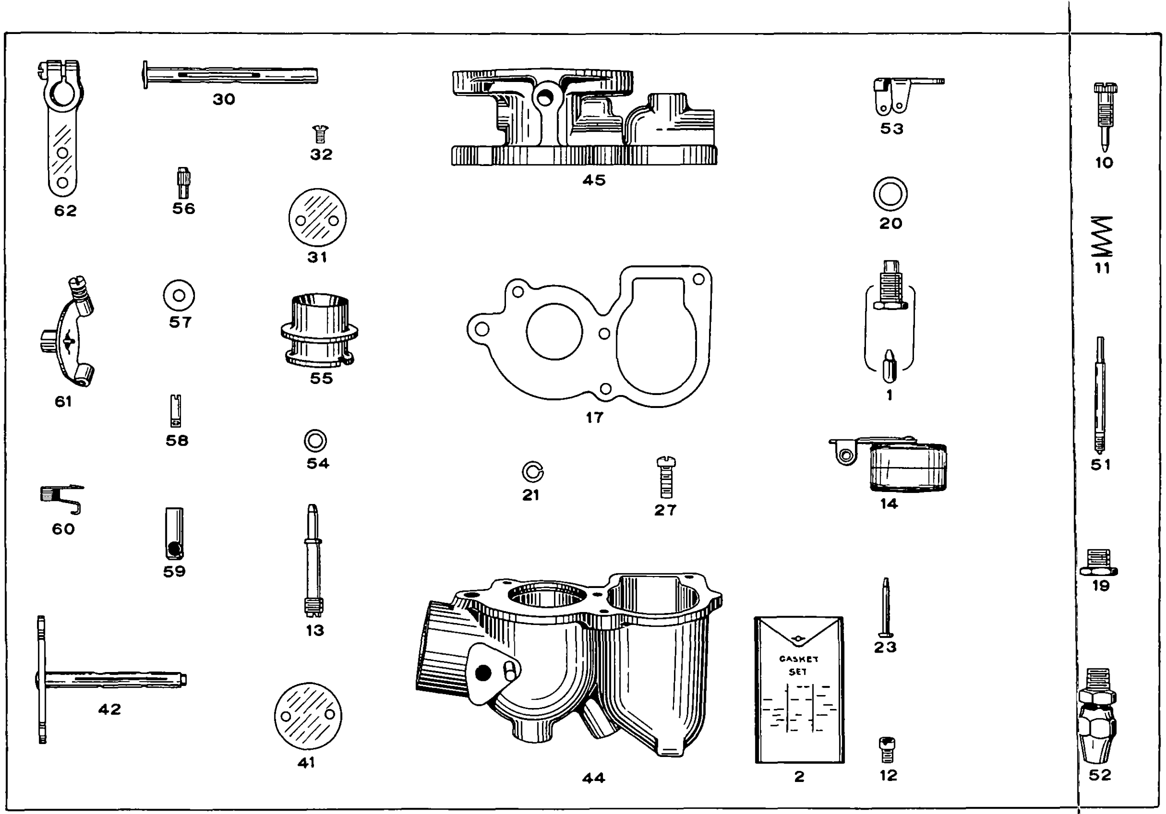
SPARK PLUG—
Clean and adjust at regular intervals.

DISTRIBUTOR—Set breaker gap.
Replace points if necessary.

VALVES—Intake: Exhaust:
Adjust with engine hot.

IGNITION TIMING—Use timing light.

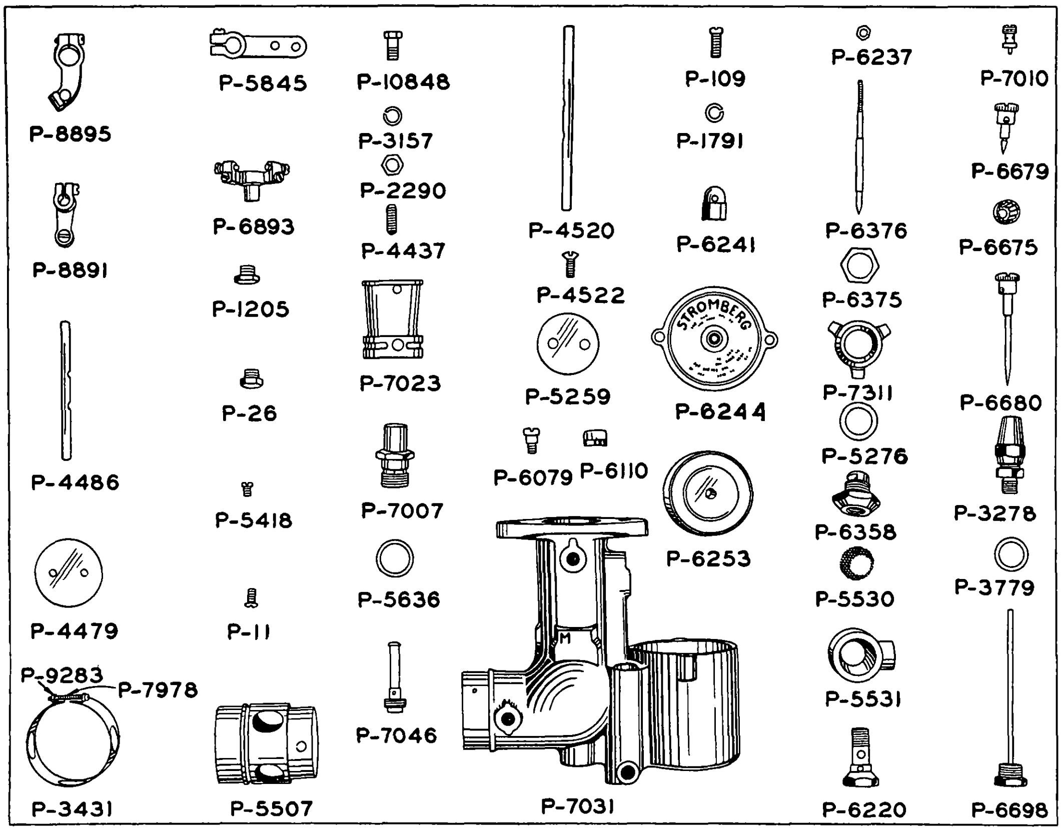
SERVICE RECOMMENDATION—Check heat control valve to s that it is free during its entire travel and that thermostat is properly positioned.



SERVICE REPLACEMENT PARTS LIST

Bin Location	Key No	Part No.	Part Name	
	1	**P-17281**	Float Needle Valve and Seat 098″	**(NOT VAR)**
	2	**J-4494-G**	Complete Gasket Set	
	10	**P-15396**	Idle Needle Valve	
	11	**P-12530**	Spring—Idle Needle Valve	
	12	**P-16362**	Metering Jet **.048″**	**(VAR)**
	13	**P-16915**	Main Discharge Jet No 52	**(NOT VAR)**
	14	**P-16342**	Float with Lever	
	17	**P-16325**	Gasket—Main Body	
	19	**P-11571**	Plug—Main Discharge Jet	
	20	**P-11572**	Gasket—Main Discharge Jet Plug and Float Needle Valve Seat	
	21	**P-1791**	Lockwasher—Main Body Attach Screw	
	23	**P-10344**	Fulcrum Pin—Float Lever	
	27	**P-2475**	Screw—Main Body Attaching	
	30	**P-16360**	Throttle Stem	
	31	**P-16347**	Throttle Valve	
	32	**P-4522**	Screw—Throttle Valve and Choke Valve Attaching	
	41	**P-3357**	Choke Valve	
	42	**P-17755**	Choke Stem and Lever	
	44	**P-16903**	Assy —Main Body **3/4″** Venturi	**(VAR.)**
	45	**P-16749**	Assembly—Throttle Body **No. 72** Idle Discharge Holes	**(VAR)**
	51	**P-16345**	Idle Tube	
	52	**P-3761**	Gas Union	
	53	**P-15410**	Float Hanger	
	54	**P-9600**	Gasket—Main Discharge Jet	
	55	**P-16326**	Venturi—**3/4″**	**(VAR)**
	56	**P-15411**	Pin—Float Hanger	
	57	**P-8637**	Washer—Choke Stem	
	58	**P-16327**	High Speed Bleeder **No 60**	**(VAR)**
	59	**P-16353**	Vent Tube	
	60	**P-16918**	Spring—Choke Lever Return	
	61	**P-16343**	Throttle Stop with Screw	
		P-23474	Screw—Throttle Stop	
		P-15301	Spring—Throttle Stop Screw	
	62	**P-5845**	Throttle Lever with Screw	
		P-3199	Screw—Throttle Lever Clamp	

BENDIX PRODUCTS DIVISION
SOUTH BEND OF BENDIX AVIATION CORPORATION INDIANA

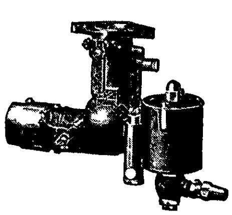


M-3/4 N . A-4050

(Obsolete)
¾" CARB SAE

M-1 N . A-4051

(Obsolete)
1" CARB SAE



Notes and References:

Parts M-1 illustrated, corresponding M-¾ parts shown in listing below

‡Indicates Sub assembly part

PARTS LISTS STROMBERG MODEL "M-3/4", "M-1", STANDARD CARBUERTOR

M-¾ (¾ in) Part No.	M-1 (1 in) Part No	Name
P-11	P-11	Season Air Adj Attach Screw
P-409	P-26	Main Gas Channel Plug
P-109	P-109	Float Chamber Cover Screw
P-1205	P-1205	Strainer Body Drain Plug
P-1791	P-1791	Float Chb Cover Screw Wash
P-2290	P-2290	Venturi Tube Set Screw Nut
P-3278	P-3278	Gas Union (For 5/16" Gas Line)
‡P-3279	‡P-3279	Union Nipple
‡P-3220	‡P-3220	Union Nut
P-3316	P-3316	Carb Attaching Cap Screw
P-3431	P-3431	Season Air Adj Shutter
P-2886	P-3779	Idle Tube Gasket
P-4437	P-4437	Venturi Tube Set Screw
P-3357	P-4479	Choke Valve
P-5815	P-4486	Choke Lever Stem
P-5816	P-4520	Throttle Lever Stem
P-4522	P-4522	Choke Valve Screw
P-4522	P-4522	Throttle Valve Screw
P-5480	P-5259	Throttle Valve
P-5276	P-5276	Float Needle Valve Seat Gasket
P-5418	P-5418	Air Bleeder Channel Plug
P-5418	P-5418	Small Venturi Tb Chan Plug
P-6047	P-5507	Season Air Adj Sleeve
P-6046	P-5511	Strgt Seas Air Adj (Comp)
P-5530	P-5530	Strainer
P-5531	P-5531	Strainer Body
P-5636	P-5636	Small Venturi Tube Gasket
P-5845	P-5845	Throttle Lever with Clamp Screw
‡P-3199	‡P-3199	Throttle Lever Clamp Screw
*P-6079	P-6079	Air Bleeder (VAR)
P-6110	P-6110	Air Bleeder Dust Cap
P-5529	P-6220	Strainer Body Stud
P-6237	P-6237	Float Needle Valve Lock Nut
P-6241	P-6241	Float Needle Valve Cap
P-6244	P-6244	Float Chamber Cover with Levers
P-5218	†P-6253	Float
P-6354	P-6358	Float Needle Valve Seat
P-6370	P-6372	Gas Strn and N V Seat (Comp)
P-1548	†P-6375	Float Needle Valve Seat Nut
P-6517	P-6376	Float Needle Valve
P-6675	P-6675	High Speed Needle Valve Adj
P-6675	P-6675	Idle Needle Valve Adjustment
P-6679	P-6679	Idle Needle Valve (Comp)
P-6680	P-6680	High Spd Ndl Vlv (Comp)
P-6347	P-6698	Idle Tube with Holder
P-6893	P-6893	Throttle Stop with Screw
‡P-12375	‡P-12375	Throttle Stop Screw
‡P-47	‡P-47	Throttle Stop Clamp Screw
P-5623	P-7007	Small Venturi Tube
P-7010	P-7010	Idle Discharge Jet
*P-6321	P-7023	Venturi Tube (VAR.)
P-5810	P-7031	Main Body
	‡P-7218	Throttle Stem Bushing
*P-5811	P-7046	Accelerating Gas Well (VAR.)
	P-7311	Float Support
P-7978	P-7978	Season Air Adj Shut Lock Screw
P-5378	P-8891	Choke Lever with Screws
‡P-46	‡P-46	Choke Lever Clamp Screw
‡P-2866	‡P-9270	Choke Wire Clamp Screw
P-5543	P-8895	Choke Tube Holder with Screws
‡P-109	‡P-284	Choke Tube Clamp Screw
‡P-2942	‡P-2267	Choke Tube Hldr Clamp Screw
P-9283	P-9283	Season Air Adj Shut Lk Screw Nut

The following parts are not shown in illustration.

M-¾ Part No	M-1 Part No	Name
P-5661	P-5661	Elbow Seas Air Adj (Complete)
‡P-5657	‡P-5657	Season Air Adj Elbow

STANDARD SPECIFICATIONS

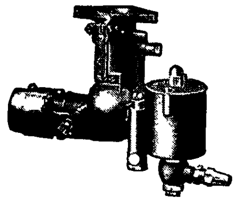
M-¾—A4050		M-1—A4051	
P-6321	11/16" Venturi	P-7023	⅞" Venturi
P-5811	No D-60-58-2/57 Accel Well	P-7046	D-4/60 Accel Well
P-6079	No 54 H S Bleeder	P-6079	No 54 H S Bleeder

J-4428-G M ¾ Complete Gasket Set
J 4429-G M 1 Complete Gasket Set

*NOTE On parts marked (VAR) size must be specified when ordering

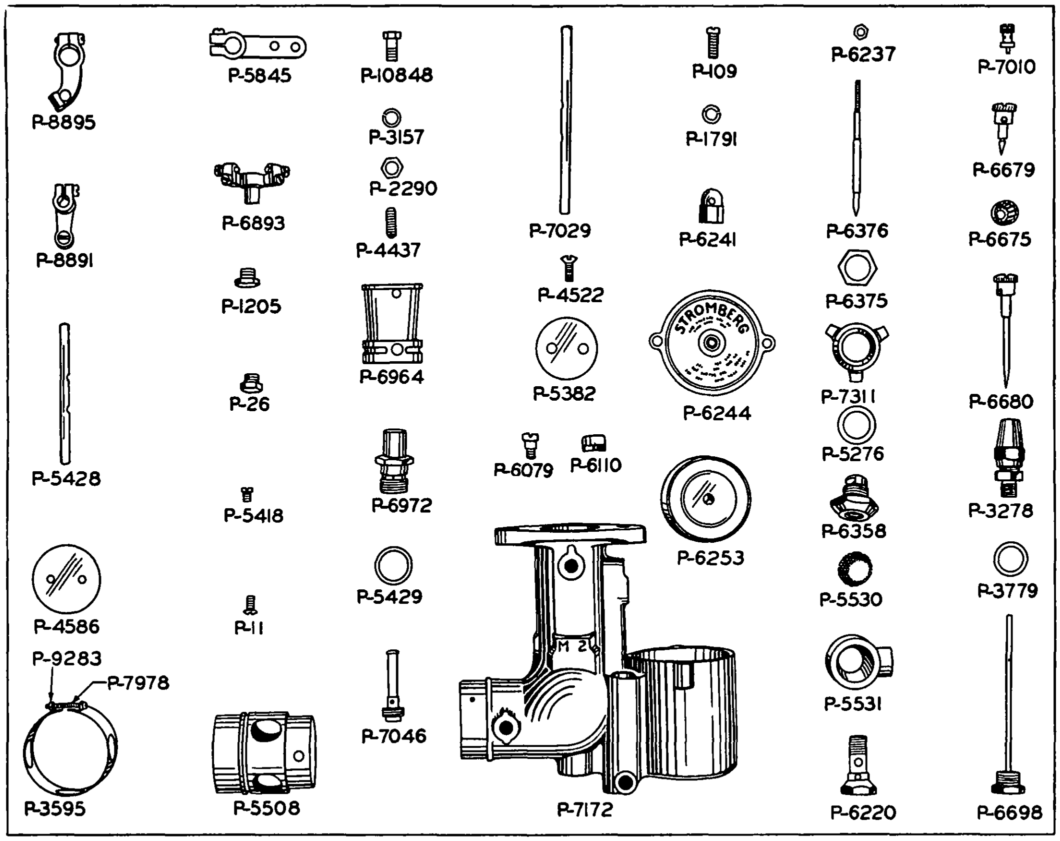
M-2 N . A-4052
(Obsolete)
1¼" CARB SAE

M-3 N . A-4053
(Obsolete)
1½" CARB SAE



Notes and References.
Parts M-2 illustrated, corresponding M-3 parts shown in listing below.

‡Indicates Sub-assembly part



PARTS LISTS STROMBERG MODEL "M-2", "M-3", STANDARD CARBURETORS

M 2 (1¼ in) Part No.	M-3 (1½ in) Part No	Name
P-11	P-11	Season Air Adj Attach Screw
P-26	P-26	Main Gas Channel Plug
P-109	P-109	Float Chamber Cover Screw
P-1205	P-1205	Strainer Body Drain Plug
P-1791	P-1791	Float Chb Cover Screw Wash
P-2290	P-2290	Venturi Tube Set Screw Nut
P-3157	P-3157	Venturi Tube Set Screw Washer
P-3278	P-3278	Gas Union (For 5/16" Gas Line)
‡P-3279	‡P-3279	Union Nipple
‡P-3220	‡P-3220	Union Nut
P-3317	P-3324	Carb Attaching Cap Screw
P-3595	P-5621	Season Air Adj Shutter
P-3779	P-5636	Idle Tube Gasket
P-4437	P-4437	Venturi Tube Set Screw
P-4522	P-20904	Choke Valve Screw
P-4522	P-20904	Throttle Valve Screw
P-4586	P-5449	Choke Valve
P-5276	P-5276	Float Needle Valve Seat Gasket
P-5382	P 5436	Throttle Valve (VAR)
P-5418	P 5418	Small Venturi Tb Chan Plug
P-5418	P-5418	Air Bleeder Channel Plug
P-5428	P-5578	Choke Lever Stem
P-5429	P-5439	Small Venturi Tube Gasket
P-5508	P-5617	Season Air Adj Sleeve
P-5512	P-5619	Straight Seas Air Adj (Complete)
P-5530	P-5530	Strainer
P-5531	P-5531	Strainer Body
P-5845	P-5856	Throttle Lever with Clamp Screw
‡P-3199	‡P-3199	Throttle Lever Clamp Screw
*P-6079	P-6079	Air Bleeder (VAR)
P-6110	P 6110	Air Bleeder Dust Cap
P-6220	P 6220	Strainer Body Stud
P-6237	P-6237	Float Needle Valve Lock Nut
P-6241	P-6241	Float Needle Valve Cap
P-6244	P-6244	Float Chamber Cover with Levers
P-6253	P-6253	Float
P-6358	P-6358	Float Needle Valve Seat
P-6372	P-6372	Gas Strn and N V Seat (Comp)
P-6375	P-6375	Float Needle Valve Seat Nut
P-6376	P-6376	Float Needle Valve
P-6675	P-6675	High Spd Ndl Valve Adj
P-6675	P-6675	Idle Needle Valve Adjustment
P-6679	P-6679	Idle Needle Valve (Comp)
P-6680	P-6680	High Spd Ndl Vlv (Comp)
P-6698	P-7039	Idle Tube with Holder
P-6893	P-7041	Throttle Stop with Screw
‡P-12375	‡P-12375	Throttle Stop Screw
‡P 47	‡P-2266	Throttle Stop Clamp Screw
*P-6964	P-7089	Venturi Tube (VAR)
P-6972	P-7034	Small Venturi Tube
P-7010	P-7036	Idle Discharge Jet
P-7029	P-7035	Throttle Lever Stem
*P-7046	P-7230	Accelerating Gas Well (VAR)
P-7172	P-7623	Main Body
‡P-7218	‡P-7238	Throttle Stem Bushing
P-7311	P-7311	Float Support
P-7978	P-9277	Seas Air Adj Shut Lock Screw
P-8891	P-8891	Choke Lever with Screws
‡P-46	‡P-46	Choke Lever Clamp Screw
‡P-9270	‡P-9270	Choke Wire Clamp Screw
P-8895	P-8895	Choke Tube Hldr with Screws
‡P-284	‡P-284	Choke Tube Clamp Screw
‡P-2267	‡P-2267	Choke Tb Hldr Clamp Screw
P-9283	P-9284	Seas Air Ad Shut Lk Screw Nut
P-10848	P-10848	Venturi Tb Set Scr (Hex Head)
*	P-8986	High Speed N Valve Seat (VAR)

The following parts are not shown in illustration

P-5662	P-5620	Elbow Season Air Adj (Complete)
‡P-5658	‡P-5618	Season Air Adj Elbow
‡P-3595	‡P-5621	Season Air Adj Shutter

STANDARD SPECIFICATIONS

M-2—A4052

P-6964	⅞" Venturi
P-7046	D-4/60 Accel Well
P-6079	No 54 H S Bleeder

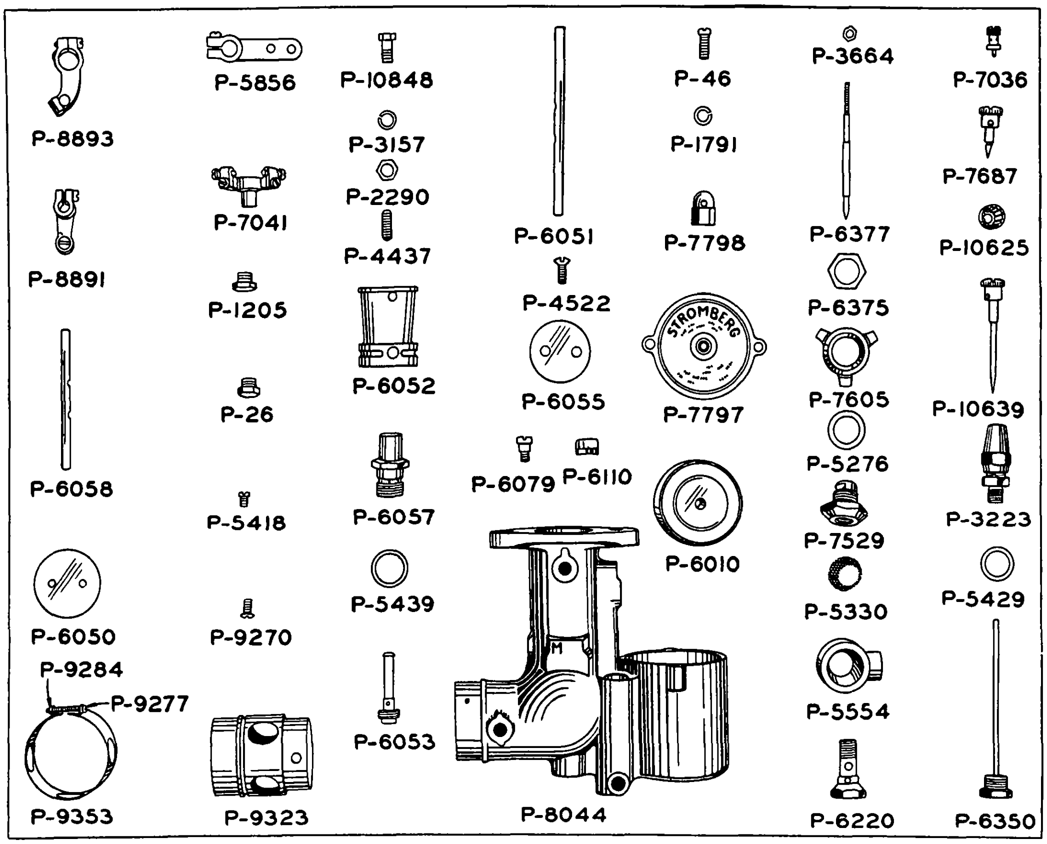
M-3—A-4053 (Code No 1-40)

P-7089	1" Venturi
P-7230	D-4/60 Accel Well
P-6079	No 52 H S Bleeder
P-5436	20° Throttle Valve
P-8986	No 35 H S N Valve Seat

J-4430-G M-2 Complete Gasket Set
J-4431-G M-3 Complete Gasket Set

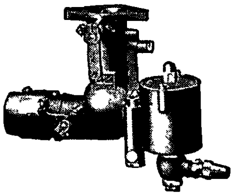
*NOTE On parts marked (VAR) size must be specified when ordering

Printed in United States of America



M-4 N . A-4054
(Obsolete)
1¾" CARB SAE

M-5 N . A-4055
(Obsolete)
2" CARB SAE



Notes and References: Parts M-4 illustrated corresponding M-5 parts shown in listing below

‡Indicates Sub-assembly part

PARTS LISTS STROMBERG MODELS "M-4" AND "M-5" STANDARD CARBURETORS

M-4 (1¾ in) Part No	M 5 (2 in) Part No	Name
P-26	P-422	Main Gas Channel Plug
P-46	P-46	Float Chamber Cover Screw
P-1205	P-1205	Strainer Body Drain Plug
P-1791	P-1791	Float Chamber Cover Washer
P-1791		Season Air Adj Attach Lockwasher
P-2290	P-2290	Large Venturi Tb Set Screw Nut
P-3157		Venturi Set Screw Lockwasher
P-3223	P-3223	Gas Union (For ⅜' Gas Line)
‡P-3219	‡P-3219	Union Nipple
‡P-3218	‡P-3218	Union Nut
P-4132	P-4132	Carb Attaching Cap Screw
P-4437	P-4437	Large Venturi Tube Set Screw
P-5276	P-5276	Float Needle Valve Seat Gasket
P-5418	P-5709	Air Bleeder Channel Plug
P-5530	P-5530	Strainer
P-5554	P-5554	Strainer Body
P-5429	P-6409	Idle Tube Gasket
P-5439	P-5881	Small Venturi Tube Gasket
P-5856	P-5845	Throttle Lever with Clamp Screw
‡P-3199	‡P-3199	Throttle Lever Clamp Screw
P-6010	P-6010	Float
P-6050	P-6000	Choke Valve
P-6051	P-6001	Throttle Lever Stem
*P-6052	P-6002	Large Venturi Tube (VAR)
*P-6053	P-6112	Accelerating Gas Well (VAR)
P-6055	P-6004	Throttle Valve (VAR)
P-6057	P-6007	Small Venturi Tube
P-6058	P-6008	Choke Lever Stem
*P-6079	P-6265	Air Bleeder (VAR)
P-6110	P-6110	Air Bleeder Dust Cap
P-6202	P-422	Small Venturi Tube Chan Plug
P-6220	P-5529	Strainer Body Stud
P-6350	P-6351	Idle Tube with Holder
P-6375	P-1548	Float Needle Valve Seat Nut
P-6675	P 6675	Idle Needle Valve Adjustment
P-7036	P-6006	Idle Discharge Jet
P-7041	P-5906	Throttle Stop with Screws
‡P-2266	‡P-46	Throttle Stop Clamp Screw
†P-12375	†P-12375	Throttle Stop Screws
P-7529	P-6359	Float Needle Valve Seat
P-7530	P-6373	Gas Strn and Ndl Vlv Seat (Comp)
P-7605	P-7605	Float Support
P-7687	P-7687	Idle Needle Valve (Complete
P-7797	P-7797	Flt Chb Cov with Levers and Ndl
‡P-6377	‡P-6377	Float Needle Valve
‡P-3664	‡P-3664	Float Needle Valve Lock Nut
P-7798	P-7798	Float Needle Valve Cap
P-8044	P-8025	Main Body
‡P-7238	‡P-12969	Throttle Stem Bushing
P-8891	P-5901	Choke Lever with Screw
‡P-46	‡P-3199	Choke Lever Clamp Screw
‡P-9270		Choke Wire Clamp Screw
P-8895		Choke Tube Holder with Screws
‡P-284		Choke Tube Clamp Screw
‡P-2267		Choke Tube Hldr Clamp Screw
P-9270		Season Air Adj Attach Screw
P-9277		Season Air Adj Shut Lk Screw
P-9284		Season Air Adj Shut Lk Scr Nut
P-9323		Season Air Adj Sleeve
*P-9328		Straight Season Air Adj (Comp)
P-9353		Season Air Adj Shutter
P 9898		Season Air Adj Gasket
P-10625	P-10625	High Speed Needle Valve Adj
P-10639	P-10639	High Spd Ndl Valve (Comp)
P-10848		Large Venturi Hex Set Screw
P-20904	P-285	Choke Valve Screw
P-20904	P-285	Throttle Valve Screw
	P-6318	Air Horn Screw Plug
	P-1693	Choke Valve Screw Washer
	P-1693	Throttle Valve Screw Washer
	P-1120	Lock Plunger
	P-5903	Lock Plngr Hldr with Clamp Screw
	‡P-3199	Lock Plngr Hldr Clamp Screw
	P-1122	Lock Plunger Spring

The following parts are not shown in illustration

P-7929		Elbow Season Air Adj (Complete)
P-7864		Season Air Adj Elbow
P-6061		Season Air Adj Shutter
	P-2266	Throttle Stop Set Clamp Screw

STANDARD SPECIFICATIONS

M-4—A-4054 (Code No 1-1)

P-6052	1$\frac{3}{16}$ Venturi
P-6053	D-4/60 Accel Well
P-6079	No 48 H S Bleeder
P-6055	20° Throttle Valve

M-5—A-4055 (Code No 1-2)

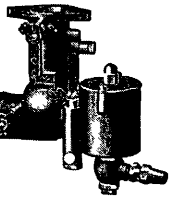
P-6002	1$\frac{7}{16}$' Venturi
P-6112	No D-4/60 Accel Well
P-6265	No 48 H S Bleeder
P 6004	20° Throttle Valve

J-4432 G M 4 Complete Gasket Set
J-4433-G M-5 Complete Gasket Set

*NOTE On parts marked **(VAR)** size must be specified when ordering

M-7 No. A-4057
(Obsolete)
2½″ CARB SAE

M-9 No. A.4059
(Obsolete)
3′ CARB SAE



Notes and References:

Parts M-7 illustrated, corresponding M-9 parts shown in listing below

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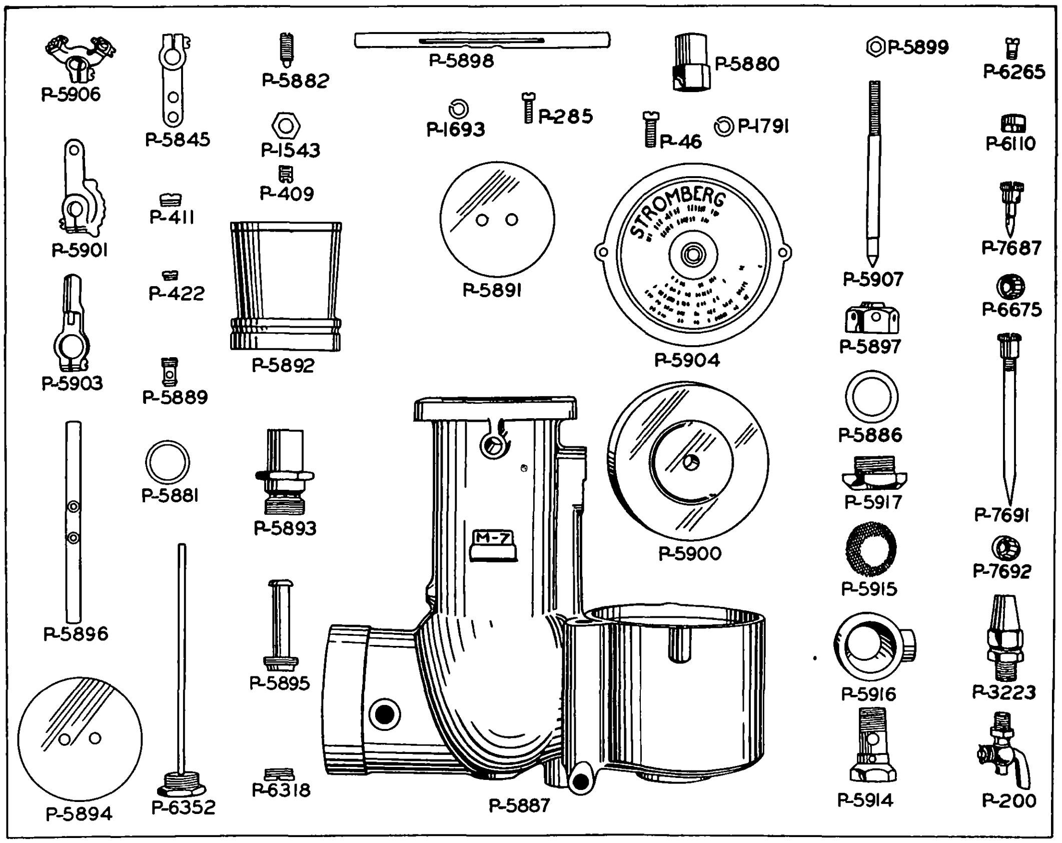
‡Indicates Sub assembly part



PARTS LISTS STROMBERG MODELS "M-7" AND "M-9" STANDARD CARBURETORS

M-7 (2½ in) Part No.	M-9 (3 in) Part No.	Name
P-46	P-46	Float Chamber Cover Screw
P-200	P-200	Drain Cock
P-285	P-3196	Throttle Valve Screw
P-285	P-3196	Choke Valve Screw
P-409	P-409	Air Bleeder Channel Plug
P-411	P-6087	Main Gas Channel Plug
P-422	P-6184	Small Venturi Tube Chan Plug
P-1120	P-1120	Lock Plunger
P-1122	P-1122	Lock Plunger Spring
P-1543	P-1543	Large Venturi Tb Set Screw Nut
P-1693	P-1693	Throttle Valve Screw Washer
P-1693	P-1693	Choke Valve Screw Washer
P-1791	P-1791	Float Chamber Cover Washer
P-3223	P-3223	Gas Union (For ⅜″ Gas Line)
‡P-3219	‡P-3219	Union Nipple
‡P-3218	‡P-3218	Union Nut
P-3324	P-2871	Carb Attaching Cap Screw
P-5845	P-5845	Throttle Lever with Clamp Screw
‡P-3199	‡P-3199	Throttle Lever Clamp Screw
P-5880	P-5880	Float Needle Valve Cap
P-5881	P-5886	Idle Tube Gasket
P-5882	P-5882	Large Venturi Tube Set Screw
P-5886	P 6086	Small Venturi Tube Gasket
P-5886	P-5886	Float Needle Valve Seat Gasket
P-5887	P-6089	Main Body
P-5889	P-6185	Idle Discharge Jet
P-5891	P 6080	Throttle Valve
*P-5892	P-6084	Large Venturi Tube (VAR)
P-5893	P-6085	Small Venturi Tube
P-5894	P-6082	Choke Valve
*P-5895	P-6088	Accelerating Gas Well (VAR)
P-5896	P-6083	Choke Lever Stem
P-5897	P-6193	Float Needle Valve Guide Nut
P-5898	P-6081	Throttle Lever Stem
P-5899	P-5899	Float Needle Valve Lock Nut
P-5900	P-5900	Float
‡P-5907	‡P-5907	Float Needle Valve
P-5901	P-5901	Choke Lever with Screw
‡P-3199	‡P-3199	Choke Lever Clamp Screw
P-5903	P-5903	Lock Plngr Hldr with Clamp Screw
‡P-3199	‡P-3199	Lock Plngr Hldr Clamp Screw
P-5904	P-5904	Float Chamber Cover with Levers
P-5905	P-6190	Gas Strn and Ndl Vlv Seat (Comp)
P-5906	P-5906	Throttle Stop with Screws
‡P-46	‡P-46	Throttle Stop Clamp Screw
‡P-12375	‡P-12375	Throttle Stop Screws
‡P-2266	‡P-2266	Throttle Stop Set Clamp Screw
P-5914	P-6192	Strainer Body Stud
P-5915	P-5915	Strainer
P-5916	P-5916	Strainer Body
P-5917	P-6191	Float Needle Valve Seat
P-6110	P-6110	Air Bleeder Dust Cap
*P-6265	P-6265	Air Bleeder (VAR)
P-6318	P-6318	Air Horn Screw Plug
P-6352	P-6353	Idle Tube with Holder
P-6675		Idle Needle Valve Adjustment
P-7691	P-6187	High Spd Ndl Valve (Comp)
P-7692		High Speed Needle Valve Adj
P-7687	P-6186	Idle Needle Valve (Complete)
	P-5884	High Spd Ndl Vlv Lock Spring
	P-5884	Idle Needle Valve Lock Spring

STANDARD SPECIFICATIONS

M-7—A-4057		M-9—A-4059	
P-5892	1⅞″ Venturi	P-6084	2″ Venturi
P-5895	D-4/60 Accel Well	P-6088	D-4/60 Accel Well
P-6265	No 44 H S Bleeder	P-6265	No 44 H S Bleeder

J 4434 G M 7 Complete Gasket Set

*NOTE On parts marked (VAR) size must be specified when ordering

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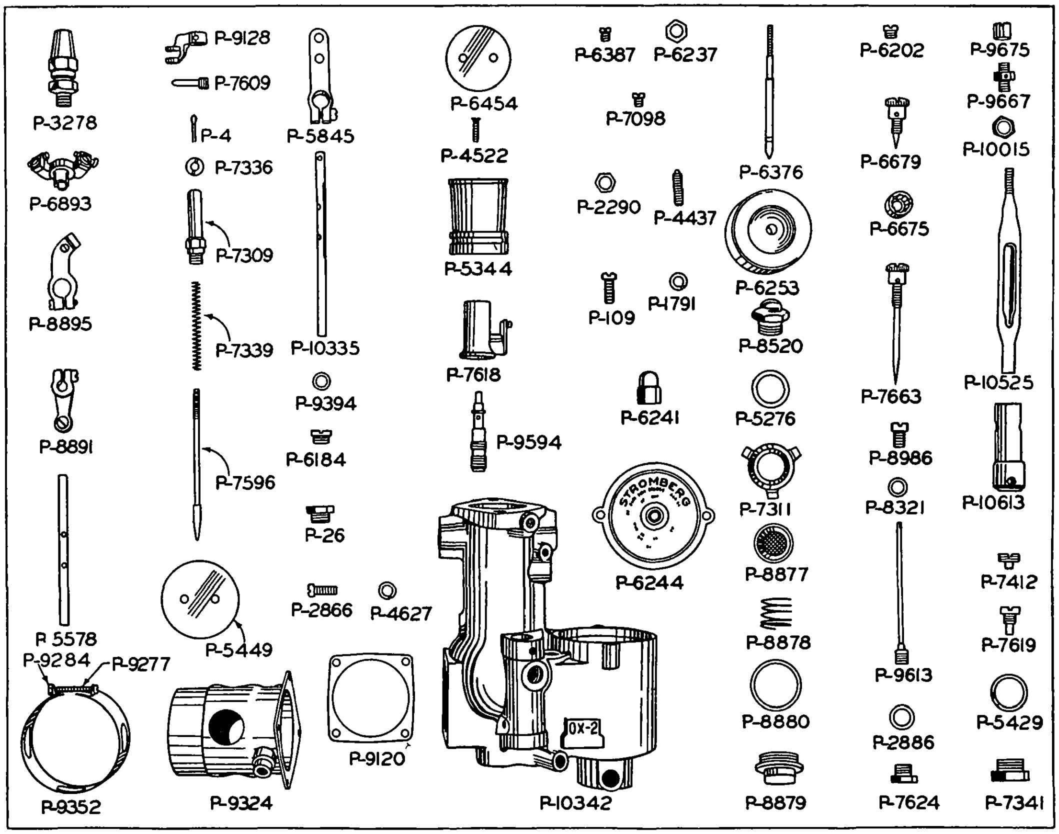
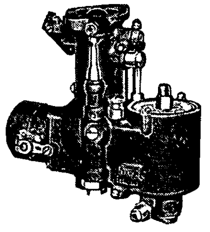


OX-2
N . A-9302
(Obsolete)
1¼" CARB SAE



Notes and References:
‡Indicates Sub assembly part

PARTS LIST STROMBERG MODEL "OX" STANDARD CARBURETOR

Part No	Name	
P-4	Economizer Needle Valve Cotter Pin	
P-26	Float Chamber Gas Level Plug	
P-109	Float Chamber Cover Screws	
P-1791	Float Chamber Cover Screw Washer	
P-2290	Large Venturi Tube Set Screw Nut	
P-2866	Season Air Adj Attaching Screw	
P-2886	Idle Tube Channel Plug Gasket	
P-2886	Main Discharge Jet Plug Gasket	
P-3278	Gasoline Union (For $\frac{5}{16}$ Gasoline Line)	
‡P-3279	Union Nipple	
‡P-3220	Union Nut	
P-3324	Carb Attaching Cap Screws	
P-4437	Large Venturi Tube Set Screw	
P-4522	Throttle Valve Screws	
P-4522	Choke Valve Screws	
P-4627	Season Air Adj Attaching Screw Lockwasher	
P-5276	Float Needle Valve Seat Gasket	
*P-5344	Large Venturi Tube	(VAR)
P-5429	Accelerating Well Plug Gasket	
P-5449	Choke Valve	
P-5578	Choke Lever Stem	
P-5845	Throttle Lever with Clamp Screw	
‡P-3199	Throttle Lever Clamp Screw	
P-6184	Idle Tube Channel Plug (Internal)	
P-6184	Main Body Boss Plug	
P 6202	Main Gas Channel Plug	
P-6202	High Speed Needle Channel Plug	
P-6202	Idle Discharge Hole Plug	
P-6237	Float Needle Valve Lock Nut	
P-6241	Float Needle Valve Cap	
P-6244	Float Chamber Cover with Lever	
P-6253	Float	
P-6376	Float Needle Valve	
P-6387	Idle Channel Plug	
P-6387	Economizer Needle Channel Plug	
*P-6454	Throttle Valve	(VAR)
P-6675	Idle Needle Valve Adjustment	
P-6675	High Speed Needle Valve Adj	
P-6679	Idle Needle Valve (Complete)	
P-6893	Throttle Stop with Screw	
‡P-12375	Throttle Stop Set Screw	
‡P-47	Throttle Stop Clamp Screw	
P-7098	Idle Discharge Channel Plug	
P-7098	Accelerating Well Channel Plug	
P-7098	Economizer Channel Plug (Internal)	
P-7309	Economizer Needle Valve Sleeve	
P-7311	Float Support	
P-7336	Economizer Needle Valve Adj Nut	
P-7339	Economizer Needle Valve Spring	
P-7341	Accelerating Well Plug	
P-7412	Accelerating Well Set Screw	
*P-7596	Economizer Needle Valve (Comp)	(VAR)
P-7609	Economizer Lever Set Screw	
P-7618	Small Venturi Tube	
*P-7619	Accelerating Gas Nozzle	(VAR)
P-7624	Idle Tube Channel Plug (External)	
P-7624	Main Discharge Jet Plug	
P-7663	High Speed Needle Valve (Comp)	
P-8321	Idle Tube Gasket (Lead)	
P-8520	Float Needle Valve Seat	
P-8877	Strainer	
P-8878	Strainer Spring	
P-8879	Strainer Plug	
P-8880	Strainer Plug Gasket	
P-8891	Choke Lever with Screw	
‡P-46	Choke Lever Clamp Screw	
‡P-9270	Choke Wire Clamp Screw	
P-8895	Choke Tube Holder with Screw	
‡P-284	Choke Tube Clamp Screw	
‡P-2267	Choke Tube Holder Clamp Screw	
*P-8986	High Speed Needle Valve Seat	(VAR)
P-9120	Season Air Adj Gasket	
P-9128	Economizer Lever	
P 9324	Season Air Adj Sleeve	
P-9352	Season Air Adj Shutter	
‡P-9277	Season Air Adj Shutter Lock Screw	
‡P-9284	Season Air Adj Shutter Lock Screw Nut	
P-9394	Economizer Needle Valve Spring Washer	
*P-9549	Main Discharge Jet	(VAR)
*P-9613	Idle Tube with Holder	(VAR)
*P-9667	Accelerating Well Bleeder	(VAR)
P-9675	Accelerating Well Bleeder Cap	
P-10015	Accelerating Well Sleeve Lock Nut	
P-10335	Throttle Lever Stem	
*P-10342	Main Body	(VAR)
‡P-7218	Throttle Stem Bushing	
P-10525	Accelerating Well	
P-10613	Accelerating Well Sleeve	

Note—Some of these Carbs have an Idling Jet P 7333 which require P-7337 Plug instead of P-6202

The following parts are not shown in the above illustration

P-7962	Elbow Season Air Adj with Valve
‡P-5621	Season Air Adj Shutter
‡P-7961	Season Air Adj Elbow

*NOTE On parts marked (VAR) size must be specified when ordering

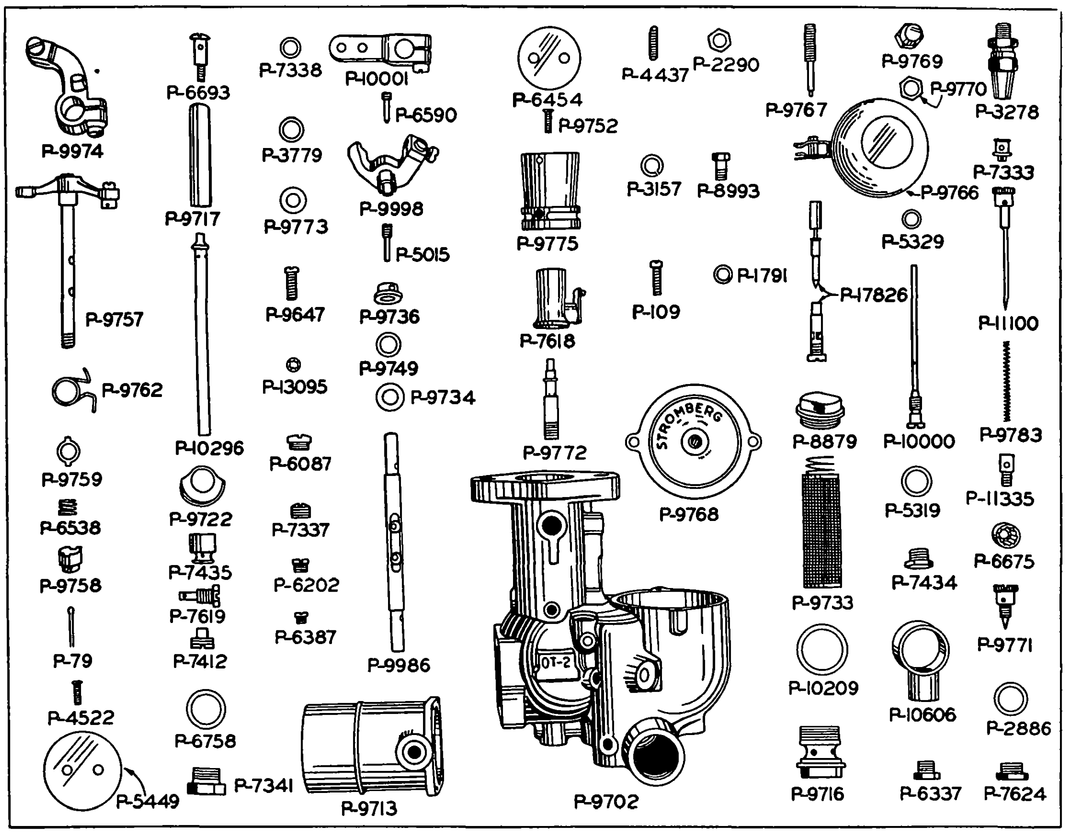
STANDARD SPECIFICATIONS

A-9302 OX-2 CARBURETOR

P-5344	1 1/32" Venturi
P-6454	20° Throttle Valve
P-7596	No. 56 Econ. Needle Valve
P-7619	No. 54 Accel. Gas Nozzle
P-8986	No. 42 H. S. Needle Valve Seat
P-9594	No. 38-18 Main Dis. Jet
P-9613	Idle Tube No. 62
P-9667	No. 30-34 Well Bleeder
P-10342	Main Body with No. 60-66 Idle Holes, and Flange Tapped ⅜x16"

STANDARD SETTINGS FOR OX-2 CARBURETOR

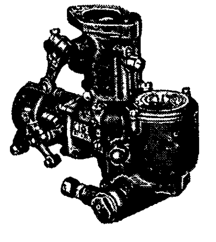
Economizer Needle: 5/16" Lift.



OT-2 N . A-9612
(Obsolete)
1¼" CARB SAE

OT-3 N . A-9613
(Obsolete)
1½ CARB SAE

OT-4 N . A-9614
(Obsolete)
1¾' CARB SAE



Notes and References:

Parts OT-2 illustrated, corresponding OT-3 and OT-4 parts shown in listing below

Truck models having these carburetors with parts exceptions therefor are shown on back of this page

‡Indicates Sub-assembly part

PARTS LISTS STROMBERG MODELS "OT-2", "OT-3" AND "OT-4" STANDARD CARBURETORS

OT-2 1¼" Part No	OT-3 1½" Part No	OT-4 1¾" Part No	Name
P-79	P-79	P-79	Choke Lever Stem Cap Cotter Pin
P-109	P-109	P-109	Float Chamber Cover Screw
P-1791	P-3157	P-3157	Air Horn Attach Screw Lockwasher
P-1791	P-1791	P-1791	Float Chamber Cover Screw Lockwasher
P-2290	P-2290	P-2290	Venturi Tube Set Screw Nut
P-2886	P-5319	P-5319	Main Discharge Jet Plug Gasket
P-3157	P-3157	P-3157	Venturi Tube Set Screw Lockwasher
P-3278	P-3278	P-3223	Gasoline Union
‡P-3279	‡P-3279	‡P-3219	Union Nipple
‡P-3220	‡P-3220	‡P-3218	Union Nut
P-3779	P-3779	P-5636	Gas Supply Chamber Plug Gasket
P-4437	P-4437	P-4437	Venturi Tube Set Screw (Headless)
P-5015	P-5015	P-5015	Throttle Stem Collar Set Screw
P-5319		P-5319	Idle Tube Holder Plug Gasket
P-5329		P-5329	Idle Tube Holder Gasket
P-5449	P-6050	P-10146	Choke Valve
P-6087	P-6087	P-6087	Float Chamber Plug
P-6202	P-6202	P-6202	Gas Supply Channel Plug
P-6202		P-6387	H S Bleeder Channel Plug (Lower)
P-6202	P-6202	P-6202	High Speed Needle Channel Plug
P-6202	P-6202	P-6202	Main Gas Channel Plug
P-6337	P-6337	P-7081	Gas Supply Chamber Plug
P-6387	P-6387	P-6387	Accel Well Channel Plug
P-6387		P-6202	Accel Well Suction Channel Plug
P-6387		P-6387	H S Bleeder Channel Plug (Upper)
P-6387	P-6387	P-6387	Idle Channel Plug
*P-6454	P-5436	P 6055	Throttle Valve (VAR)
P-6538	P-6538	P-6538	Choke Lever Stem Spring
P-6590			Throttle Stop Set Screw
P-6675	P-6675	P-10625	High Speed Needle Valve Adj
P-6675	P-6675	P-6675	Idle Needle Valve Adj
*P-6693	P-6693	P-10926	High Speed Bleeder (VAR)
P-6758	P-6758	P-6758	Accelerator Well Plug Gasket
*P-7333			Idle Discharge Jet (VAR)
P-7337	P-6202	P-6202	Idle Discharge Jet Plug
P-7338	P-7338	P-7447	Idle Discharge Valve Seat Gasket
P-7341	P-7341	P-7341	Accelerating Well Plug
P-7412	P-7412	P-7412	Accelerating Well Set Screw
P-7434	P-6184	P-7434	Idle Tube Holder Plug
P-7435	P-10117	P-10613	Accelerator Well Baffle Sleeve
P-7618	P-7480	P-10200	Small Venturi Tube
*P-7619	P-7410	P-10128	Accelerator Gas Nozzle (VAR)
P-7624	P-7434	P-7434	Main Discharge Jet Plug
P-8879	P-10568	P-10568	Strainer Body Plug
P-8993	P-10848	P-10848	Venturi Tube Set Screw (Hex Hd)
P-9647	P-9744	P-9744	Air Horn Attaching Screw
*P-9702	P-9703	P-10134	Main Body (VAR)
‡P-9723	‡P-9727	‡P-9727	Throttle Stem Bushing
P-9713	P-9724	P-10133	Air Horn
P-9716	P-9716	P-9716	Gasoline Coupling Stud
P-9717			Accelerating Well Dust Sleeve
P-9722	P-10584	P-10584	Accelerating Well Dust Cap
P-9733	P-9733	P-9733	Gas Strainer with Spring
P-9734			Throttle Stop Washer
P-9736	P-9751	P-9751	Throttle Stem Collar
P-9749	P-9750	P-9750	Throttle Stem Cork Gasket
P-9752	P-10701	P-10701	Throttle Valve Screws
P-9757	P-9764	P-10203	Choke Lever and Stem (Complete)
‡P-9711	‡P-9711	‡P-9711	Choke Lever (Complete)
‡P-46	‡P-46	‡P-46	Choke Lever Clamp Screw
‡P-6243	‡P-6243	‡P-6243	Choke Lever Pin
‡P-2229	‡P-9647	‡P-2229	Choke Wire Clamp Screw
‡P-9756	‡P-9763	‡P-10201	Choke Lever Stem
P-9758	P-9758	P-9758	Choke Lever Stem Cap
P 9759	P-9759	P-9759	Choke Lever Stem Washer
P-9762	P-9762	P-9762	Choke Lever Spring
P-9766	P-9766	P-10313	Float with Lever (Complete)
P-9767	P-9767	P-9767	Float Fulcrum Screw
P-9768	P-9726	P-9768	Float Chamber Cover with Name Plate
P-9769	P-9769	P-9769	Float Fulcrum Screw Cap
P-9770	P-9770	P-9770	Float Fulcrum Screw Lock Nut
P-9771	P-9771	P-9771	Idle Needle Valve (Complete)
*P-9772	P-8445	P-8445	Main Discharge Jet (VAR)
P-9773	P-9773	P-9773	Float Fulcrum Screw Cap Gasket
*P-9775	P-9776	P-10739	Venturi Tube (VAR)
P-9783	P-9783		High Speed Needle Valve Spring
P-9974	P-9974	P-9707	Choke Tube Holder with Screw
‡P-9744	‡P-9744	‡P-9744	Choke Tube Clamp Screw
‡P-9742	‡P-9742	‡P-9742	Choke Tube Holder Clamp Screw
P-9986			Throttle Lever Stem
P-9998			Throttle Stop with Screws
‡P-9742			Throttle Stop Screw
‡P-9647			Throttle Stop Clamp Screw
P-10000	P-9126	P-7426	Idle Tube with Holder
P10001	P-10001	P-10001	Throttle Lever with Screw
‡P-15817	‡P-15817	‡P-15817	Throttle Lever Clamp Screw
P-10209	P-10209	P-10209	Gas Coupling Stud Gasket
P-10209	P-10209	P-10209	Strainer Body Plug Gasket
P-10296	P-10592	P-10115	Accelerator Well Sleeve with Holder
P-10606	P-10606	P-9715	Gasoline Coupling
P-11100	P-11100	P-10639	High Speed Needle Valve (Complete)
*P-11335	P-11098		High Speed Needle Valve Seat (VAR)
P-13095	P-10303	P-10303	Throttle Valve Screw Lockwashers
P-17826	P-17826	P-18298	Float Needle Channel Plug (Upper)
		P-6202	H S Needle Channel Plug (Upper)
	P-8321		Idle Tube Gasket (Lead)
	P-6387		H S Bleeder Channel Plug (Intrenal)
	P-9754	P-10316	Throttle Stop and Stem (Complete)
	‡P-9753	‡P-10202	Throttle Stem
	‡P-9709	‡P-9709	Throttle Stop with Screws
	‡P-9742	‡P-9742	Throttle Stop Screw
	‡P-9647	‡P-9647	Throttle Stop Clamp Screw
	‡P-9745	‡P-9745	Throttle Stop Taper Pin
	‡P-9755	‡P-9755	Throttle Stop Washer
P 20904	P 20904	P 20904	Choke Valve Screw

J-4184-G OT-2 Complete Gasket Set
J-4185 G OT-3 Complete Gasket Set
J-4186 G OT 4 Complete Gasket Set

*NOTE On parts marked (VAR) size must be specified when ordering

STANDARD SPECIFICATIONS

A-9612, OT-2 Carburetor

P-6454	20° Throttle Valve
P-6693	No 56 High Speed Bleeder
P-7333	No 52 Idle Discharge Jet
P-7619	No 54 Accelerating Nozzle
P-9772	No 32-15 Main Discharge Jet
P-9775	1 1/32" Venturi
P-10000	Idle Tube, No 65 Feed Hole
P-10296	Accelerating Well 4 No 53 Holes
P-11335	No 42 High Speed Needle Valve Seat

A-9613, OT-3 Carburetor

P-5436	20° Throttle Valve
P-6693	No 56 High Speed Bleeder
P-7410	No 53 Accelerating Nozzle
P-8445	No 28-15 Main Discharge Jet
P-9126	Idle Tube, No 62 Feed Hole
P-9703	Main Body with No 55-66 Idle Holes and Flange Tapped ⅜-16
P-9776	1 1/16" Venturi
P-10592	Accelerating Well, 2 No 44 Holes
P-11098	No 38 High Speed Needle Valve Seat

A-9614, OT-4 Carburetor

P-6055	20° Throttle Valve
P-7426	Idle Tube, No 63 Feed Hole
P-8445	No 28-15 Main Discharge Jet
P-10115	Accelerating Well, 2 No 40 Holes
P-10128	No 51 Accelerating Nozzle
P-10134	Main Body, with No 56-66 Idle Holes and Flange Tapped 7/16-14
P-10739	1 3/16' Venturi
P-10926	No 60 High Speed Bleeder

Exceptions to the Illustrated With Economizer Needle Valves

A-11093, OT-3 Carburetor

P-4	Cotter Pin
P-10076	Economizer Needle Valve Spring
P-10077	Economizer Needle Valve Washer
P-10079	Economizer Needle Valve Seat
P-10080	Economizer Needle Valve Nut
*P-10082	Economizer Needle Valve, No 56(VAR.)
P-10084	Throttle Stop and Stem
P-10085	Economizer Needle Valve Sleeve
P-10093	Main Body (Var)

A-11094, OT-4 Carburetor

P-4	Cotter Pin
P-9755	Throttle Stop and Stem Washer
P-10077	Economizer Needle Valve Washer
P-10079	Economizer Needle Valve Seat
P-10080	Economizer Needle Valve Nut
P-10085	Economizer Needle Valve Sleeve
P-10749	Economizer Needle Valve Lever
*P-11108	Economizer Needle Valve, No 60 (VAR)
P-11289	Throttle Stop and Stem
P-11480	Economizer Needle Valve Spring

*NOTE On parts marked (VAR) size must be specified when ordering

STANDARD SETTINGS FOR OT-3 AND OT-4 CARBURETORS

Economizer Needle 7/16" Lift

PARTS AND SETTINGS EXCEPTIONS MODEL OT-2-3-4 CARBURETORS
(Trucks)

AMERICAN MOTOR 1926 (64-3K-90)
4¼' x5¼"—6-Cylinder Safeway Truck
A-10083 OT-3 Carburetor with (Econ. Needle)

Std Part No	Special Part No	Used on Above Model Truck
P-3278	P-3223	Gas Union
P-8445	P-10995	A-34 B-8 Main Discharge Jet
P-9126	P-10994	Idle Tube No 63 Feed Hole
P-9647	P-2229	Choke Lever, Wire Conn Screw
P-9776	P-9776	1¼ ' Venturi
P-9974	P-10790	Choke Tube Holder
P-10001	P-9705	Thro Lever
P-10606	P-9715	Gas Coupling
P-10607	P-10991	Air Horn (Complete)
None Shown	P-10070	H S Needle Valve Lock

NOTE Econ Needle Lift 7/16"

EQUIPMENT

P-9092 Dash Adj Control—P-8109 Tube 61" long—P-2245 Choke Wire 67⅞" long—P-10216 High Speed (seal)

AUTOCAR 1927 MODEL "CH" AND "CK" 3-TON TRUCK (6-M-450)
4¼"x5½"—4-Cylinder
A-11212 OT-2 Carburetor (Code No 31-6)

Std Part No.	Special Part No.	Used on Above Model Truck
P-3278	P-755	Union Nipple
P-6693	P-6693	No 54 H S Bleeder
P-9711	P-6167	Choke Lever
P-9713	P-12000	Air Horn (Casting)
P-9734	P-12173	Thro Stem Collar
P-9756	P-5578	Choke Stem
P-9772	P-12155	A-34 B-18 Main Discharge Jet
P-9775	P-9775	15/16' Venturi
P-9974	P-5983	Air Horn Lock Plunger Holder
P-9986 P-9998	P-9743	Thro Stop and Stem
P-10001	P-12153	Thro Lever
P-10063	P-12156	Air Horn (Complete)
P-10606	P-9715	Gas Coupling
None Shown	P-1120	Lock Plunger
None Shown	P-1122	Lock Plunger Spring
None Shown	P-2040	Air Horn Casting Clamp Screw

EQUIPMENT

P-2934 Cap Screw

AUTOCAR 1928 MODEL "T" 2½-TON TRUCK
4¼"x4¾"—6-Cylinder
A-11213 OT-3 Carburetor with (Econ Needle) (Code No. 31-7)

Std Part No.	Special Part No.	Used on Above Model Truck
P-3278	P-755	Union Nipple
P-8445	P-9565	A-34 B-18 Main Discharge Jet
P-9126	P-9613	Idle Tube No 62 Feed Hole
P-9724	P-13148	Air Horn (Casting)
P-9764	P-13073	Choke Lever
P-9974	P-8034	Choke Lever Stop
P-9776	P-9776	1 3/16" Venturi
P-10001	P-12153	Thro Lever
P-10082	P-10082	No 52 Econ Needle Valve
P-10606	P-9715	Gas Coupling
P-10607	P-13074	Air Horn (Complete)
None Shown	P-13073	Extra Choke Lever

NOTE Econ Needle Lift ⅜".

AUTOCAR 1928—2½-TON TRUCK
4⅜'x4¾"—6-Cylinder
A-11214 OT-4 Carburetor with (Econ Needle) (Code No 31-8)

Std Part No.	Special Part No.	Used on Above Model Truck
P-3223	P-755	Union Nipple
P-7426	P-8301	Idle Tube No 60 Feed Hole
P-8445	P-13496	A-32 B-15 Main Discharge Jet
P-9707	P-8035	Choke Stop
P-9755	P-9751	Thro Stem Collar
P-10001	P-13498	Thro Lever
P-10128	P-10128	No 57 Accel Gas Nozzle
P-10135	P-13499	Air Horn (Complete)
P-10203	P-9130	Choke Lever
P-10739	P-10739	1 5/16" Venutri
P-11108	P-11108	No 54 Econ Needle
P-11289 P-10749	P-11266	Thro Stop Econ Lever & Stem (Complete)
None Shown	P-9130	Extra Choke Lever

NOTE Econ Needle Lift ⅜'

PARTS AND SETTINGS EXCEPTIONS MODEL OT-2-3-4 CARBURETORS (Continued)
(Trucks)

AUTOCAR 1930 TRUCK (6-T-250-B)
A-13744 OT-4 Carburetor with (Econ Needle) (Code No 31-9)

Std Part No	Special Part No	Used on Above Model Truck
P-3223	P-755	Union Nipple
P-7426	P-13018	Idle Tube No 65 Feed Hole
P-8445	P-14731	A-28-B 15 Main Discharge Jet
P-9707	P-14882	Choke Tube Holder
P-9762	P-12097	Choke Lever Return Spring
P-10001	P-13498	Throttle Lever
P-10128	P-10128	No 43 Accel Gas Nozzle
P-10135	P-16680	Air Horn (Complete)
P-10134	P-14734	Main Body 55-66 Idle Holes Flange Tapped $\frac{7}{16}$-14
P-10203	P-16685	Choke Lever and Stem (Complete)
P-10739	P-10739	$1\frac{3}{8}$ Venturi
None Shown	P-15030	No 46 Econ Reducer

NOTE Econ Needle Lift $\frac{3}{8}$

BROCKWAY, 1926-27-28 TRUCK
4"x5"—6 Cylinder
A-12393 OT-3 Carburetor with (Econ Needle)

Std Part No	Special Part No	Used on Above Model Truck
P-8445	P-10995	A-34—B-8 Main Discharge Jet
P-9776	P-9776	$1\frac{1}{4}$' Venturi
P-9974	P-9707	Choke Tube Holder
P-10001	P-13414	Throttle Lever
P-10084	P-13419	Throttle Stop
P-10592	P-13416	(2 No 42 Holes) Accel Well
None Shown	P-13418	Extra Throttle Lever

NOTE Econ Needle Lift $\frac{7}{16}$

DIAMOND 'T" MODEL 'T-3" & "T-4" TRUCK
A 10352 OT-2 Carburetor and Equipmpent (Code No 66 10)

Std Part No	Special Part No	Used on Above Model Truck
P-9713	P-12118	Air Horn (Casting)
P-9757	P-11662	Choke Lever and Stem (Complete)
P-9762	P-12097	Choke Lever Return Spring
P-9775	P-9775	$\frac{15}{16}$ Venturi
P-10063	P-12098	Air Horn (Complete)
P-11335	P-11335	No 48 H S Needle Valve Seat

EQUIPMENT

P-3324 Cap Screw—P-3870 Dash Adj Control with P-7158 Tube 42' long—P-2245 Choke Wire 48 long—P-6171 Wire Connector and Screw

DIAMOND "T", 1926-27 TRUCK (DX2535)
$4\frac{1}{2}$"x$5\frac{3}{4}$'—4 Cylinder
A-11182 OT-2 Carburetor and Equipment

Std Part No	Special Part No	Used on Above Model Truck
P-6693	P-6693	No 52 H S Bleeder
P-9713	P-12118	Air Horn (Casting)
P-9762	P-12097	Choke Lever Return Spring
P-9757	P-11662	Choke Lever and Stem (Complete)
P-9772	P-9772	No A-34 B-18 Main Discharge Jet
P-10001	P-12122	Throttle Lever
P-10063	P-12098	Air Horn (Complete)

EQUIPMENT

P-3870 Dash Adj Control with P-7158 Tube 42 long—P-2245 Choke Wire 48 long—P 6171 Wire Connector and Screw

MACK 1925-26 MODEL "A -B" 2 TON TRUCK
4 x5 —4 Cylinder
A-9352 OT-2 Carburetor (Code No 24-26)

Std. Part No	Special Part No	Used on Above Model Truck
P-3278	P-5924	Gas Union
P-7333	P-7333	No 50 Idle Discharge Jet
P-8993	P-10848	Venturi Set Screw
P-9757	P-11662	Choke Lever and Stem (Complete)
P-9775	P-9775	$\frac{15}{16}$ Venturi
P 9974	P-9707	Choke Tube Holder
P 9998 P-9986	P-9743	Throttle Stop and Stem (Complete)
P-10001	P-9705	Throttle Lever
P-10063	P-11663	Air Horn (Complete)
P-10606	P-9715	Gas Coupling
P-11100	P-9761	H S Needle Valve
P-11335	P-9682	No 50 H S Needle Valve Seat
None Shown	P-10070	H S Needle Valve Lock

MACK 1925 26 MODEL "AC" TRUCK (2-AC-249)
5"x6"—4 Cylinder
A 9353 OT-3 Carburetor (Code No 24-23)

Std Part No	Special Part No	Used on Above Model Truck
P-3278	P-5924	Gas Union
P 6693	P-6693	No 50 H S Bleeder
P-7410	P-7410	No 43 Accel Gas Nozzle
P-8545	P-10588	A-32 B-15 Main Discharge Jet
P-9126	P-10783	Idle Tube, No 62 Feed Hole
P-9764	P-11660	Choke Lever and Stem (Complete)
P-9974	P-14882	Choke Tube Holder
P-9776	P-9776	$1\frac{5}{32}$ Venturi
P-10001	P-9705	Throttle Lever
P-10607	P-11661	Air Horn (Complete)
P-10606	P-9715	Gas Coupling
P-11098	P-10786	No 52 H S Needle Valve Seat
P-11100	P-10785	H S Needle Valve
None Shown	P-10070	H S Needle Valve Lock

MACK 1926 MODEL 'AL" BUS (2-AL-247)
$4\frac{1}{4}$ x5"—6 Cylinder
A-9354 OT-4 Carburetor with Econ Needle

Std Part No	Special Part No	Used on Above Model Bus
P-3223	P-5924	Gas Union
P-7426	P-11260	Idle Tube No 60 Feed Hole
P-8445	P-11275	A-36 B 20 Main Discharge Jet
P-10001	P-11317	Throttle Lever
P-11108	P-11108	No 50 Econ Needle
P-10115	P-11261	Accel Well (Blank)
P-10128	P-10128	No 43 Accel Gas Nozzle
P-10135	P-11778	Air Horn (Complete)
P-10200	P-11482	Small Venturi
P-10203	P-11777	Choke Lever and Stem (Complete)
P-10613	P-10117	Accel Well Sleeve
P-10639	P-11501	H S Needle Valve
P-10739	P-10739	$1\frac{3}{8}$' Venturi
None Shown	P-7389	No 30 Well Bleeder
None Shown	P-10070	H S Needle Valve Lock

NOTE Econ Needle Valve Lift $\frac{7}{16}$'

MACK 1925-26 MODEL "A -B" BUS
$4\frac{1}{4}$' x5"—4 Cylinder
A 9362 OT-2 Carburetor (Code No 24-27)

Std Part No	Special Part No	Used on Above Model Bus
P-3278	P-5924	Gas Union
P-8879	P-10568	Strainer Body Screw Plug
P-8993	P-10848	Venturi Set Screw
P-7333	P-7333	No 50 Idle Discharge Jet
P-9734	P-9736	Throttle Stem Washer
P-9757	P-11662	Choke Lever and Stem (Complete)
P-9974	P-9707	Choke Tube Holder
P-9986 P-9998	P 9743	Throttle Stop and Stem (Complete)
P-10001	P-9705	Throttle Lever
P-10063	P-11663	Air Horn (Complete)
P-10606	P-9715	Gas Coupling
P-11100	P-9761	High Speed Needle Valve
P-11335	P-9682	No 50 H S Needle Valve Seat
None Shown	P-10070	H S Needle Valve Lock

MACK 1926-27-28 MODEL "A -B" (2-AB-2166)
Gas Electric Mack Bus
$4\frac{1}{4}$ x5"—4 Cylinder
A 9363 OT 3 Carburetor (Code No 24-24)

Std Part No	Special Part No	Used on Above Model Bus
P-3278	P-15276	Gas Union
P-6693	P-10926	No 56 H S Bleeder
P-7410	P-7410	No 43 Acc Gas Nozzle
P-8445	P-13839	A-32 B-20 Main Discharge Jet
P-9126	P-10783	No 62 Idle Tube
P-9703	P-12813	Main Body No 55-66 Idle Holes
P-9764	P-11660	Choke Lever and Stem (Complete)
P-9974	P-14882	Choke Tube Holder
P-9776	P-9776	$1\frac{1}{8}$ Venturi
P-10001	P-9705	Throttle Lever
P-10592	P-12108	2 (No 40 Holes) Accel Well
P-10606	P-9715	Gas Coupling
P-10607	P-11661	Air Horn (Complete)
P-11098	P-13840	No 44 Needle Valve Seat with No 52 Restriction
P 11100	P-10785	H S Needle Valve
None Shown	P-10070	H S Needle Valve Lock

NOTE All Carburetors before serial No 4 750 000 use P-6693 H S Bleeder

PARTS AND SETTINGS EXCEPTIONS MODEL OT-2-3-4 CARBURETORS (Continued)

MACK 1927-28 MODEL "A L" (2-AL-351A)

Gas Electric Bus
4¼"x5' —6 Cylinder
A-9364 OT-4 Carburetor with (Econ Needle)

Std Part No	Special Part No	Used on Above Model Bus
P-3223	P-5924	Gas Union
P-7426	P-13018	Idle Tube, No 60 Feed Hole
P-8445	P-11275	A-36—B-20 Main Discharge Jet
P-10001	P-14298	Throttle Lever
P-10079	P-13019	Econ Needle Valve Seat
P-10115	P-11261	Accel Well (Blank)
P-10128	P-10128	No 43 Accel Gas Nozzle
P-10135	P-11778	Air Horn (Complete)
P-10200	P-11482	Small Venturi
P-10203	P-11777	Choke Lever and Stem (Complete)
P-10613	P-10117	Accel Well Sleeve
P-10639	P-11501	H S Needle Valve
P-10739	P-10739	1¼ Venturi
P-11108	P-11108	No 50 Econ Needle Valve
P-11289	P-10316	Throttle Stop and Stem (Complete)
None Shown	P-7389	No 32 Well Bleeder
None Shown	P-10070	H S Needle Valve Lock

NOTE Econ Needle Lift $\frac{5}{16}$

MACK 1927 (MODEL "AK") 3½ TON TRUCK (2-AK-25)

4 /4"x6' —4 Cylinder
A-11143 OT-3 Carburetor

Std Part No	Special Part No	Used on the Above Model
P-3278	P-5924	Gas Union
P-6693	P-6693	No 50 H S Bleeder
P-7410	P-7410	(Blank) Accel Gas Nozzle
P-8445	P-12047	A-32 B-15 Main Discharge Jet
P-9126	P-10783	Idle Tube No 64 Feed Hole
P-9703	P-12093	Main Body 54-66 Idle Holes, Flange Tapped ⅜-16'
P-9764	P-11660	Choke Lever and Stem (Complete)
P-9776	P-9776	1$\frac{5}{32}$ Venturi
P-9974	P-14882	Choke Tube Holder
P-10001	P-9705	Throttle Lever
P-10606	P-9715	Gas Coupling
P-10607	P-11661	Air Horn (Complete)
P-11098	P-12048	No 44 H S Needle Seat with No 52 Restriction
P-11100	P-10785	H S Needle Valve
None Shown	P-10070	H S Needle Valve Lock

MACK 1925 MODEL "AC" TRUCK (2-AC-2115)

5 x6 —4 Cylinder Engine
A-11173 OT-3 Carburetor (Code No 24-28)

Std Part No	Special Part No	Used on Above Model Truck
P-3278	P-15276	Gas Union
P-6693	P-10926	No 56 High Speed Bleeder
P-7410	P-7410	No 58 Accelerating Gas Nozzle
P-8445	P-12109	A-32 B 15 Main Discharge Jet
P-9126	P-10783	Idle Tube, No 62 Feed Hole
P-9703	P-12813	Main Body Idle 55-66 Flange Tapped ⅜-16
P-9748	P-11701	Float Needle Valve Seat (130)
P-9776	P-9776	1$\frac{3}{16}$ Venturi
P-10001	P-9705	Throttle Lever
P-10592	P-12108	Accelerating Well (No 2 40 Holes)
P-10606	P-9715	Gas Coupling
P-11098	P-12048	No 44 High Speed Needle Valve seat with No 52 Restriction
P-11100	P-10785	High Speed Needle Valve

MACK 1929 MODEL "BL" TRUCK (2-BL-31)

3¼' x5 and 3⅝'x5"—6 Cylinder
A-13973 OT-3 Carburetor with (Econ Needle)

Std Part No	Special Part No	Used on the Above Model
P-3278	P-15278	Elbow Union
P-5015	P-6590	Econ Lever Set Screw
P-7410	P-7410	No 48 Accel Gas Nozzle
P-8445	P-14096	A 32 B-20 Main Discharge Jet
P-8724	P-14907	Air Horn (Casting)
P-9751	P-9755	Throttle Stem Collar
P-9764	P-11660	Choke Lever and Stem (Complete)
P-9774	P-9707	Choke Tube Holder
P-9776	P-9776	1-3/32' Venturi
P-10001	P-9705	Throttle Lever
P-10077	P-11250	Econ Needle Washer
P-10079	P-14968	Econ Needle Seat
P-10082	P-10082	No 54 Econ Needle Valve
P-10084	P-14918	Throttle Stop and Stem (Complete)
P-10093	P-14913	Main Body 55-66 Idle Holes—Flange Tapped ⅜-16
P-10592	P-12180	(2 No 40 Holes) Accel Well
P-10607	P-14914	Air Horn (Complete)
P-11098	P-14905	No 46 H S Needle Valve Seat with No 50 Restriction
P-11100	P-10785	H S Needle Valve
None Shown	P-14904	Econ Lever
None Shown	P-10070	H S Needle Valve Lock

NOTE Econ Needle Lift $\frac{7}{16}$"

MACK 1929 MODEL "BG" TRUCK (2-BG-39)

3¼ x5' and 3⅞"x5"—6 Cylinder
A-13963 OT-3 Carburetor with (Econ Needle)

Std Part No	Special Part No	Used on the Above Model
P-3278	P-15278	Elbow Union
P-5015	P-6590	Econ Lever Set Screw
P-7410	P-7410	No 48 Accel Gas Nozzle
P-8445	P-14906	A-32 B-20 Main Discharge Jet
P-8724	P-14907	Air Horn (Casting)
P-9751	P-8755	Throttle Stem Collar
P-9764	P-11660	Choke Lever and Stem (Complete)
P-9776	P-9776	1$\frac{3}{16}$ Venturi
P-9974	P-9707	Choke Tube Holder
P-10001	P-9705	Throttle Lever
P-10079	P-14968	Econ Needle Valve Seat
P-10082	P-10082	No 54 Econ Needle Valve
P-10084	P-14918	Throttle Stop and Stem (Complete)
P-10592	P-12108	(2 No 40 Holes) Accel Well
P-10093	P-14913	Main Body 55-66 Idle Holes, Flange Tapped ⅜-16'
P-10607	P-14914	Air Horn (Complete)
P-11098	P-14905	No 46 H S Needle Valve Seat with No 50 Restriction
P-11100	P-10785	H S Needle Valve
None Shown	P-14904	Econ Lever
None Shown	P-10070	H S Needle Valve Lock

NOTE Econ Needle Lift $\frac{7}{16}$

MACK 1930 MODEL "AB 6" TRUCK (2 BG-310)

3¼ x5' and 3⅝"x5"—6 Cylinder
A-14453 OT-3 Carburetor with (Econ Needle)

Std Part No	Special Part No	Used on the Above Model
P-3278	P-15278	Elbow Union
P-5015	P-6590	Econ Lever Set Screw
P-7410	P-7410	No 48 Accel Gas Nozzle
P-8445	P-14906	A-32 B-20 Main Discharge Jet
P-9126	P-10783	Idle Tube, No 62 Feed Hole
P-8724	P-14907	Air Horn (Casting)
P-9751	P-9755	Throttle Stem Collar
P-9764	P-11660	Choke Lever and Stem (Complete)
P-9776	P-9776	1$\frac{3}{16}$ Venturi
P-9974	P-9707	Choke Tube Holder
P-10001	P-9705	Throttle Lever
P-10607	P-14914	Air Horn (Complete)
P-10079	P-14968	Econ Needle Valve Seat
P-10082	P-10082	No 54 Econ Needle
P-10084	P-14918	Throttle Stop and Stem (Complete)
P-10093	P-14913	Main Body 55-66 Idle Holes, Flange Tapped ⅜-16"
P-10592	P 12108	(2 No 40 Holes) Accel Well
P-11098	P-14905	No 46 H S Needle Seat with No 50 Restriction
P-11100	P-10785	H S Needle Valve
None Shown	P-10070	H S Needle Valve Lock
None Shown	P-14904	Econ Lever

NOTE Econ Needle Lift $\frac{7}{16}$

REPLACEMENT EQUIPMENTS

PARTS AND SETTINGS EXCEPTION MODEL OT-2-3-4 CARBURETOR
(Trucks)

MACK 1922-26 MODEL "AB" BUS
4¼"x5'—4 Cylinder

J-3470 OT-2 Carburetor and Equipment

Std Part No	Special Part No	Used on the Above Model
P-3278	P-15276	Union Elbow
P-7333	P-7333	No 50 Idle Discharge Jet
P-9998	P-9743	Throttle Stop and Stem (Complete)
P-10001	P-9705	Throttle Lever
P-11100	P-9761	H S Needle Valve
P-11335	P-9682	No 50 H S Needle Valve Seat

EQUIPMENT

P-7939 Housing 30' of 2' (93195) Flexible Tubing—P-6171 Wire Connector—P-4752 Gasket

MACK 1915 23 (ALL MODELS WITH "AB" MOTOR)
4"x5'—4 Cylinder

J-3471 OT-2 Carburetor and Equipment

Std Part No	Special Part No	Used on the Above Model
P-3278	P-15276	Union Elbow
P-7333	P-7333	No 50 Idle Jet
P-9775	P-9775	$1\frac{5}{16}$" Venturi
P-9998	P-9743	Throttle Stop and Stem
P-10001	P-9705	Throttle Lever
P-11100	P-9761	H S Needle Valve
P-11335	P-9682	No 50 H S Needle Seat

EQUIPMENT

P-7939 Housing—30 of 2 (93195) Flexible Tubing—P-6171 Wire Conn —P-4752 Gasket

MACK MODEL "AC" 1917-23
5' x6"—4 Cylinder

J-3510 OT-3 Carburetor and Equipment

Std Part No	Special Part No	Used on the Above Model
P-3278	P-15276	Gas Union
P-6693	P-6693	No 50 H S Bleeder
P-8445	P-10588	A-32 B-15 Main Discharge Jet
P-7410	P-7410	No 43 Accel Gas Nozzle
P-9126	P-10783	Idle Tube No 62 Feed Hole
P-9776	P-9776	$1\frac{5}{32}$' Venturi
P-9974	P-9707	Choke Tube Holder
P-10001	P-10812	Throttle Lever
P-10606	P-9715	Gas Coupling
P-10607	P-9725	Air Horn (Complete)
P-11098	P-10786	No 52 H S Needle Seat
P-11100	P-10785	H S Needle Valve
None Shown	J-3573	Bell Crank Assembly (Complete)
None Shown	P-3157	Lockwasher
None Shown	P-2934	Cap Screw
None Shown	P-4729	Nut
None Shown	P-5364	Lockwasher
None Shown	P-10314	Washer
None Shown	P-8496	Cotter Pin
None Shown	P-10141	Bell Crank Bracket
None Shown	P-10142	Bell Crank
None Shown	P-10311	Ball Joints
None Shown	P-10315	Connecting Rod

EQUIPMENT

P-9815 Housing—8¾' of 2 (93195) Flexible Tubing—P-4753 Gasket

MACK ALL MODELS WITH "AB" MOTOR 1924-26
4¼"x5'—4 Cylinder

J 3531 OT-2 Carburetor and Equipment

Std Part No	Special Part No	Used on the Above Model
P 3278	P-15276	Gas Union
P 6693	P-6693	No 54 H S Bleeder
P-7333	P-7333	No 50 Idle Discharge Jet
P-9775	P-9775	29/32' Venturi
P-10001	P-9705	Throttle Lever
P-10296	P-10296	Spec 4 No 52 Holes Accel Well
P-11100	P-9761	H S Needle Valve
P-11335	P-9682	No 52 H S Needle Seat

EQUIPMENT

P-6171 Wire Connector—P-4752 Gasket

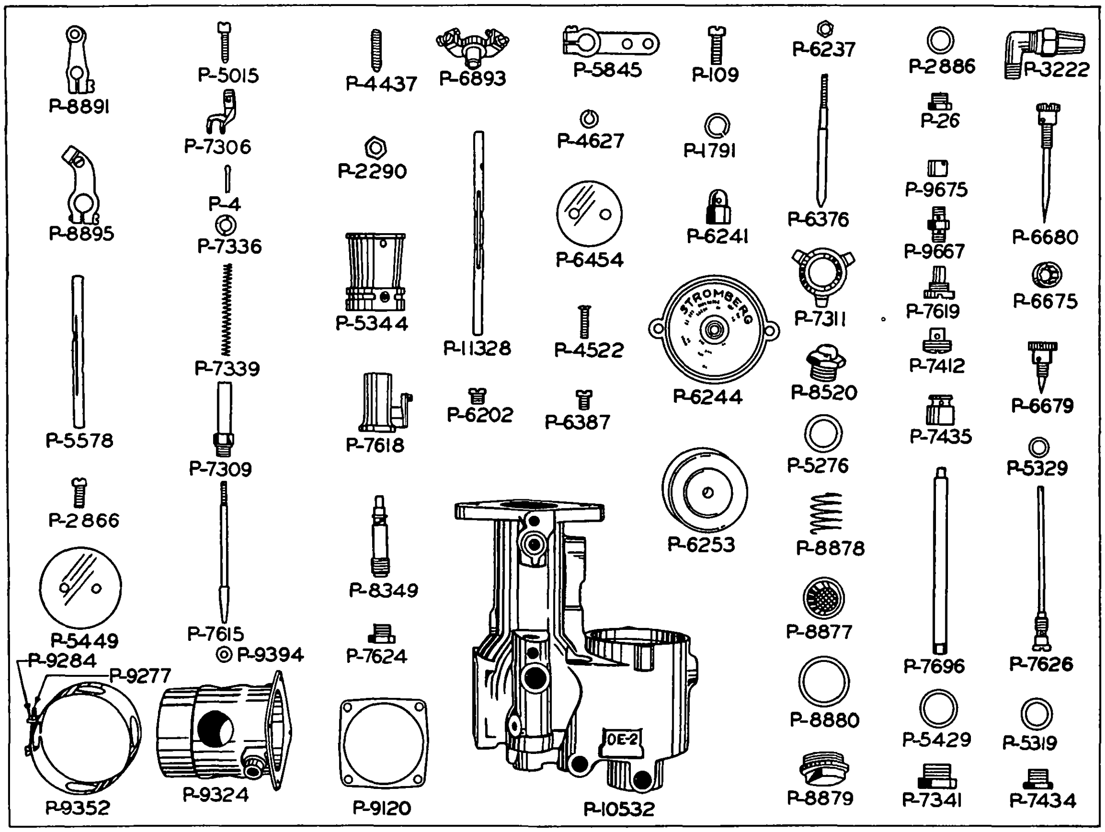
MACK 1924 26 MODEL "AC"
5"x6 —4 Cylinder

J 3532 OT-3 Carburetor and Equipment

Std Part No	Special Part No	Used on the Above Model
P-3278	P-15276	Gas Union
P-6693	P 6693	No 50 H S Bleeder
P-7410	P-7410	No 43 Accel Gas Nozzle
P-8445	P-10588	A 32 B-15 Main Discharge Jet
P-9126	P-10783	Idle Tube No 62 Feed Hole
P-9724	P-10371	Air Horn (Casting)
P-9776	P-9776	$1\frac{5}{32}$ Venturi
P-9974	P-9707	Choke Tube Holder
P-10001	P-10812	Thro Lever with (3573 Bell Crank)
P-10607	P-10370	Air Horn (Complete)
P-10606	P-9715	Gas Coupling
P-11098	P-10786	No 52 H S Needle Seat
P-11100	P-10785	H S Needle Valve
None Shown	J-3573	Bell Crank Assembly (Complete)
None Shown	P-3157	Lockwasher
None Shown	P-2934	Cap Screw
None Shown	P-4729	Nut
None Shown	P-5364	Lockwasher
None Shown	P-10314	Washer
None Shown	P-8496	Cotter Pin
None Shown	P-10141	Bell Crank Bracket
None Shown	P-10142	Bell Crank
None Shown	P-10311	Ball Joints
None Shown	P-10315	Connecting Rod

EQUIPMENT

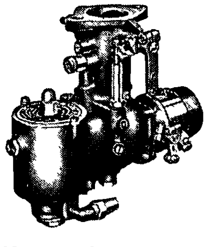
P-4753 Gasket



OE-1
N . A-8531
(Obsolete)
1 CARB SAE

OE-_
N . A-8532
(Obsolete)
1¼" CARB SAE

OE-3
N . A-8533
(Obsolete)
1½ CARB SAE



Notes and References: Parts OE-2 illustrated corresponding OE-1 and OE-3 parts shown in listing below

‡Indicates Sub assembly part

PARTS LISTS STROMBERG MODELS "OE-1", "OE-2" AND "OE-3" STANDARD CARBURETORS

OE 1 Part No	OE 2 Part No	OE-3 Part No	Name
P-4	P-4	P-4	Economizer Needle Valve Cotter Pin
P-26	P-26	P-26	Float Chamber Gas Level Plug
P-26	P-26		Gas Connection Plug
P-26	P-26	P-26	High Speed Needle Channel Plug
P-109	P-109	P-109	Float Chamber Cover Screws
P-1791	P-1791	P-1791	Fl Chamber Cover Screw Lock Washer
P-2290	P-2290	P-10750	Venturi Tube Set Screw Nut
P-2866	P-2866	P-9270	Season Air Adj Attaching Screws
P-2886	P-2886	P-5319	Main Discharge Jet Plug Gasket
P-3222	P-3222	P-3278	Gas Union (for $\frac{5}{16}$ Gas Line)
‡P-3221	‡P-3221	‡P-3279	Union Elbow
‡P-3220	‡P-3220	‡P-3220	Union Nut
P-3316	P-3317	P-3324	Carburetor Attach Screw
P-4437	P-4437	P-4437	Venturi Tube Set Screw
P 4522	P 4522	P 20904	Choke Valve Screws
P-4522	P-4522	P 20904	Throttle Valve Screws
P-4627	P-4627	P-1791	Season Air Adj Attach Screw L w sh'r
P-7609	P-5015	P-7609	Econonimzer Lever Set Screw
P-5276	P-5276	P-5276	Fl Needle Valve Seat Gasket
P-5319	P-5319	P-5319	Idle Tube Holder Plug Gasket
P-5329	P-5329	P-5329	Idle Tube Holder Gasket
*P-5389	P-5344	P-7050	Large Venturi Tube (VAR)
P-5429	P-5429	P-5429	Accel Well Plug Gasket
P-4586	P-5449	P-6050	Choke Valve
P-5420	P-5578	P-6058	Choke Lever Stem
P-5845	P-5845	P-5856	Throttle Lever with Screw
‡P-3199	‡P-3199	‡P-3199	Throttle Lever Clamp Screw
P-6202	P-6202	P-6202	Economizer Channel Plug (External)
P-6202	P-6202	P-6202	Main Gas Channel Plug
P-6237	P-6237	P-6237	Float Needle Valve Lock Nut
P-6241	P-6241	P-6241	Float Needle Valve Cap
P-6244	P-6244	P-6244	Float Chamber Cover with Levers
P-6253	P-6253	P-6253	Float
P-6376	P-6376	P-6376	Float Needle Valve
P-6387	P-6387	P-6387	Accel Well Channel Plug
P-6387	P-6387	P-6387	Econ Needle Channel Plug
P-6387	P-6387	P-6387	Idle Channel Plug
*P-9576	P-6454	P-5436	Throttle Valve (VAR)
P-6675	P-6675	P-6675	Idle Needle Valve Adjustment
P-6675	P-6675	P-6675	High Speed Needle Valve Adjustment
P-6679	P-6679	P-6679	Idle Needle Valve (Complete)
P-6680	P-6680	P-6680	High Speed Needle Valve (Complete)
P-6893	P-6893	P-7041	Throttle Stop with Screws
‡P-47	‡P-47	‡P-2266	Throttle Stop Clamp Screw
‡P-12375	‡P-12375	‡P-12375	Throttle Stop Set Screw
P-7889	P-7306	P-7607	Economizer Lever
P-7655	P-7309	P-7309	Economizer Needle Valve Sleeve
P-7311	P-7311	P-7311	Float Support
P-7336	P-7336	P-7336	Econ Needle Valve Adjusting Nut
P-7893	P-7339	P-7339	Econ Needle Valve Spring

OE 1 Part No	OE 2 Part No	OE 3 Part No	Name
P-7341	P-7341	P-7341	Accelerating Well Plug
P-7412	P-7412	P-7412	Accelerating Well Set Screw
P-7434	P 7434	P-7434	Idle Tube Holder Plug
P-7435	P-7435	P-10613	Accelerating Well Baffle Sleeve
*P-7582	P-7615	P-7596	Econ Needle Valve (Complete) (VAR)
P-7846	P-7618	P-7480	Small Venturi Tube
*P-7848	P-7619	P-7410	Accelerating Gas Nozzle (VAR)
P-7624	P-7624	P-7434	Main Discharge Jet Plug
P-7906	P-7626	P-7426	Idle Tube with Holder
P-7856	P-7696	P-10633	Accel Well Sleeve with Holder
*P-9306	P-8349	P-12865	Main Discharge Jet (VAR)
P-8520	P-8520	P-6358	Float Needle Valve Seat
P-8877	P-8877	P-5530	Strainer
P-8878	P-8878		Strainer Spring
P 8879	P-8879		Strainer Plug
P-8880	P-8880		Strainer Gasket
P-8891	P-8891	P-8891	Choke Lever with Wire Conn & Screw
‡P-46	‡P-46	‡P-46	Choke Lever Clamp Screw
‡P-9270	‡P-9270	‡P-9270	Choke Wire Clamp Screw
P-8895	P-8895	P-8895	Choke Tube Holder with Stem
‡P-284	‡P-284	‡P-284	Choke Tube Clamp Screw
‡P 2267	‡P-2267	‡P-2267	Choke Tube Holder Clamp Screw
P-9121	P-9120	P-9898	Season Air Adj Gasket
P-7978	P-9277	P-9277	Season Air Adj Shutter Lockwasher
P 9283	P-9284	P-9284	Sea Air Adj Shutter Lock Screw Nut
P-9325	P-9324	P-9323	Season Air Adj Sleeve
P-9351	P-9352	P-9353	Season Air Adj Shutter
P-9394	P-9394	P-9394	Econ Needle Valve Spring Washer
*P-9667	P-9667	P-9667	Accel Well Bleeder (VAR)
P-9675	P-9675	P-9675	Accel Well Bleeder Cap
*P-10831	P-10532	P-13263	Main Body (VAR)
‡P 9979	‡P-7218	‡P-7238	Throttle Stem Bushing
‡P 7620	‡P-7620		Throttle Stem Grooved Bushing
P-10777	P-11328	P-7608	Throttle Lever Stem
		P-200	Strainer Body Drain Cock
		P-1205	Strainer Body Drain Plug
		P-5531	Strainer Body
		P-6220	Strainer Body Stud
		P-6406	Auxiliary Channel Plug
		P-10015	Accelerating Well Nut
P-7098			Econ Channel Plug (Internal)
		P-6375	Float Needle Valve Seat Nut
		P-6406	Idle Discharge Channel Plug
		*P-8986	H S Needle Valve Seat (VAR)

The following parts are not shown in illustration

P-7960	P-7962	P-7929	Elbow Seas Air Adj with Valve
‡P-7959	‡P-7961	‡P-7864	Season Air Adj Elbow
‡P-3595	‡P-5621	‡P-6061	Season Air Adj Shutter

J-4423-G OE 1 Complete Gasket Set
J 4424-G OE 2 Complete Gasket Set
J-4425-G OE-3 Complete Gasket Set

*NOTE On parts marked (VAR) size must be specified when ordering

STANDARD SPECIFICATIONS

A-8531, OE-1 Carburetor

P-5389	27/32' Venturi
P-7848	No 56 Accelerating Nozzle
P-7852	No 56 Economizer Needle Valve
P-7906	Idle Tube, No 65 Feed Hole
P-9306	No 36-20 Main Discharge Jet
P-9667	No 28-32 Well Bleeder
P-9756	20° Throttle Valve
P-10831	Main Body, with No 56-70 Idle Holes and Flange Tapped 5/16-18'

A-8532, OE-2 Carburetor

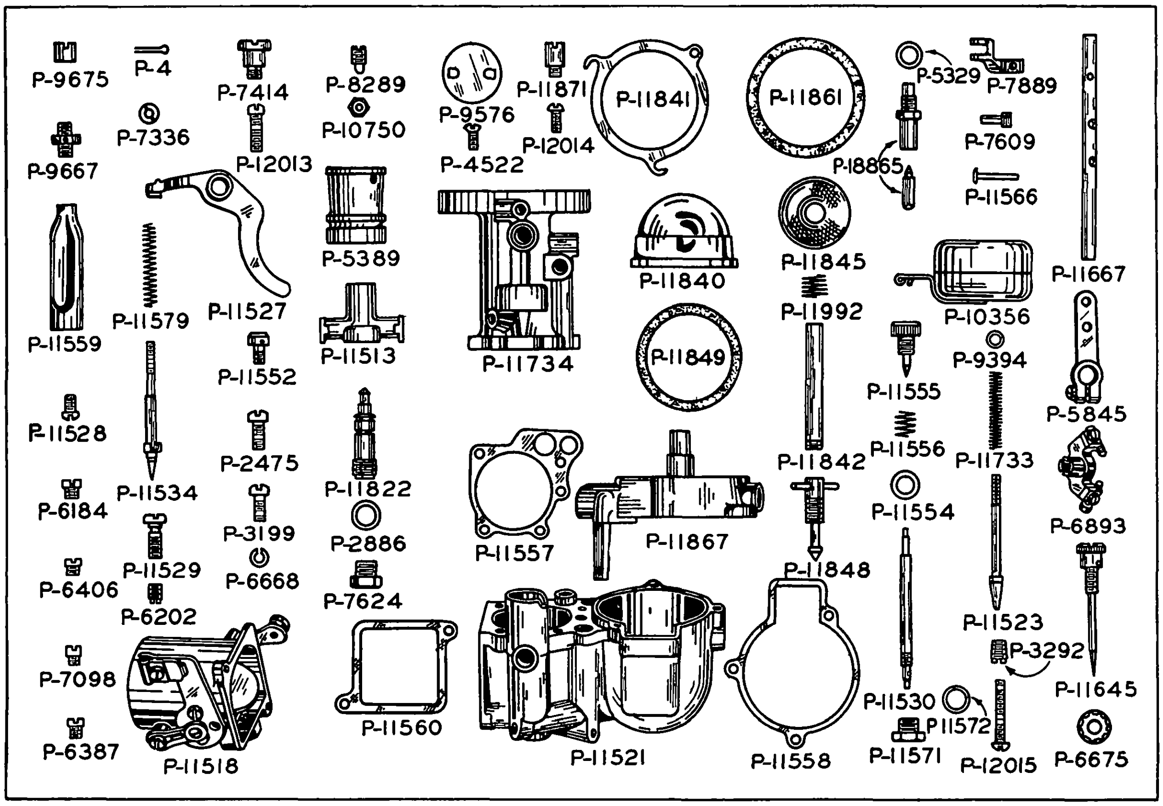
P-5344	15/16" Venturi
P-6454	20° Throttle Valve
P-7615	No 56 Economizer Needle Valve
P-7619	No 54 Accelerating Nozzle
P-7626	Idle Tube, No 62 Feed Hole
P-8349	No 34-18 Main Discharge Jet
P-9667	No 28-32 Well Bleeder
P-10532	Main Body with No 56-66 Idle Holes, and Flange Tapped 3/8-16'

A-8533, OE-3 Carburetor

P-5436	20° Throttle Valve
P-7050	1 1/16" Venturi
P-7410	No 53 Accelerating Nozzle
P-7426	Idle Tube, No 63 Feed Hole
P-7596	No 56 Economizer Needle Valve
P-8986	No 36 High Speed Needle Valve Seat
P-9667	No 28-32 Well Bleeder
P-12865	No 28-15 Main Discharge Jet
P-13263	Main Body with No 53-66 Idle Holes and Flange Tapped 3/8-16'

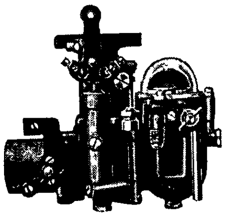
STANDARD SETTINGS FOR OE-1-2-3 CARBURETORS

Economizer Needle	OE-1-2 5/16" lift OE-3, 3/8" lift



TV-1
N . A-10931
(Obsolete)
1 CARB SAE

TV-2
N . A-11492
(Obsolete)
1¼" CARB SAE



Notes and References.
Parts TV-1 illustrated corresponding TV-2 parts shown in listing below

‡Indicates Sub-assembly part

PARTS LISTS STROMBERG MODELS "TV-1 AND "TV-2" STANDARD CARBURETORS

TV-1 Part No	TV 2 Part No	Name
P-4	P-4	Aux Needle Valve Cotter Pin
P-4	P-4	Econ Needle Valve Cotter Pin
P-2475	P-9742	Main Body Attaching Screw
P-2886	P-2886	Main Discharge Plug Gasket
P-3199	P-2266	Air Horn Attaching Screw
P-3292	P-3292	Vis-A Gas Gas Connection Plug
P-3222	P-3222	Gasoline Union (For $\frac{5}{16}$" Gas Line)
‡P-3221	‡P-3221	Union Nipple
‡P-3220	‡P-3220	Union Nut
P-3316	P-3324	Carb Attaching Cap Screws
P-4522	P-4522	Throttle Valve Screws
P-5329	P-5329	Float Needle Valve Seat Gasket
*P-5389	P-5344	Large Venturi Tube (VAR)
P-5845	P-5845	Throttle Lever with Clamp Screw
‡P-3199	‡P-3199	Throttle Lever Clamp Screw
P-6184	P-7627	Accelerating Well Set Screw Plug
P-6202	P-6202	Accelerating Well Bldr Chan Plug
P-6202	P-6202	Auxiliary Gas Channel Plug
P-6202	P-6202	Idle Discharge Jet Plug
P-6202	P-6202	Main Gas Channel Plug
P-6387	P-6387	Idle Channel Plug
P-6406	P-6406	Vis-A-Gas Feed Channel Plug
P-6406	P-6406	Accelerating Well Channel Plug
P-6668	P-3157	Main Body Attach Screw L'washer
P-6668	P-12859	Air Horn Attach Lockwasher
P-6675	P-6675	High Speed Needle Valve Adj
P-6893	P-6893	Throttle Stop with Screws
‡P-12375	‡P-12375	Throttle Stop Set Screws
‡P-47	‡P-47	Throttle Stop Clamp Screws
P-7098	P-7098	Idle Gas Channel Plug
P-7098	P-7098	Idle Air Bleeder Channel Plug
P-7098	P-7098	Auxiliary Channel Plug (lower)
P-7336	P-7336	Econ Needle Valve Adj Nut
P-7336	P-7336	Auxiliary Needle Valve Adj Nut
P-7414	P-7414	Aux Control Lever Fulcrum Screw
P-7609	P-7609	Econ Lever Set Screw
P-7624	P-7624	Main Discharge Plug
P-7889	P-12197	Econ Lever
P-8289	P-4437	Large Venturi Tube Set Screw
P-9394	P-9394	Econ Needle Valve Spring Washer
*P-9576	P-6454	Throttle Valve (VAR)
*P-9667	P-9667	Accelerating Gell Bleeder (VAR)
P-9675	P-9675	Accelerating Well Bleeder Cap
P-10356	P-10356	Float with Lever
P-10750	P-10750	Large Venturi Tube Set Screw Nut
P-11513	P-11900	Small Venturi Tube
P-11518	P-11910	Air Horn with Valve
‡P-11724	‡P-11724	Choke Wire Clamp Screw
‡P-11561	‡P-11561	Choke Tube Clamp
‡P-284	‡P-284	Choke Tube Clamp Screw
‡P-8806	‡P-8806	Choke Tube Clamp Screw Nut
‡P-4586	‡P-5449	Choke Valve
‡P-4522	‡P-4522	Choke Valve Screws
‡P-11531	‡P-11531	Choke Tube Hldr Attach Screw

TV 1 Part No	TV 2 Part No	Name
P-11521	P-11912	Main Body
P-11523	P-12195	Econ Needle Valve
P-11527	P-11917	Auxiliary Control Lever
P-11528	P-11528	Accel Well Venturi Set Screw
P-11529	P-11529	Small Venturi Tube Set Screw
P-11530	P-11905	Idle Tube
P-11534	P-11534	Auxiliary Needle Valve
*P-11552	P-11552	High Speed Bleeder (VAR)
P-11554	P-11554	Idle Needle Valve Washer
P-11555	P-11555	Idle Needle Valve
P-11556	P-11556	Idle Needle Valve Spring
P-11557	P-11918	Main Body Gasket
P-11558	P-11558	Vis-A-Gas Float Chamber Gasket
P-11559	P-11904	Accelerating Well
P-11560	P-12039	Air Horn Gasket
P-11566	P-11566	Float Fulcrum Pin
P-11571	P-11571	Float Chamber Drain Plug
P-11571	P-11571	Float Chamber Gas Level Plug
P-11572	P-11572	Float Chamber Drain Plug Gasket
P-11572	P-11572	Float Chamber Gas Lvl Plug Gskt
P-11579	P-11579	Aux Needle Valve Spring
P-11645	P-7663	High Speed Needle Valve
P-11667	P-12265	Throttle Lever Stem
P-11733	P-12038	Econ Needle Valve Spring
*P-11734	P-12193	Throttle Valve Body (VAR)
‡P-7620	‡P-9979	Throttle Stem Bushing (left)
‡P-9979	‡P-9979	Throttle Stem Bushing (right)
*P-11822	P-11971	Main Discharge Jet (VAR)
P-11840	P-11840	Vis-A-Gas Strainer Bowl
P-11841	P-12454	Vis-A-Gas Strainer Bl Clamp Ring
P-11842	P-11842	Vis-A-Gas Drain Pipe
P-11845	P-11845	Vis-A-Gas Strainer
P-11848	P-11848	Vis-A Gas Drain Valve (Complete)
P-11849	P-11849	Vis-A Gas Strainer Bowl Gasket
P-11861	P-11861	Vis-A-Gas Strainer Bl Clamp Ring Gasket
P-11867	P-11867	Vis-A-Gas Float Chamber Cover
P-11871	P-11871	Vis-A-Gas Feed Pipe
P-11992	P-11992	Vis-A-Gas Strainer Spring
P-12006	P-12006	Aux Channel Expansion Plug
P-12013	P-12013	Vis-A-Gas Flt Chbr Cov Screw
P-12014	P-12014	Vis-A-Gas Strainer Bl Clamp Ring Screw
P-12015	P-12015	Vis-A-Gas Flt Chbr Cov Sc (long)
P-12179	P-12443	Vis-A-Gas Flt Chmbr Cov (Comp)
P-18865	P-18865	Float Needle Valve and Seat
	P-11915	Accelerating Well Cap
	P-10015	Accelerating Well Lock Nut
	P-12202	Econ Lever with Roller
	P-7414	Econ Lever Fulcrum Screw
	P-7098	Economizer Gas Channel Plug
	P-7098	Idle Discharge Channel Plug
	P-1791	Float Chamber Screw L'washer

J-4189 G TV-1 Complete Gasket Set
J-4190-G TV 2 Complete Gasket Set

*NOTE On parts marked (VAR) size must be specified when ordering

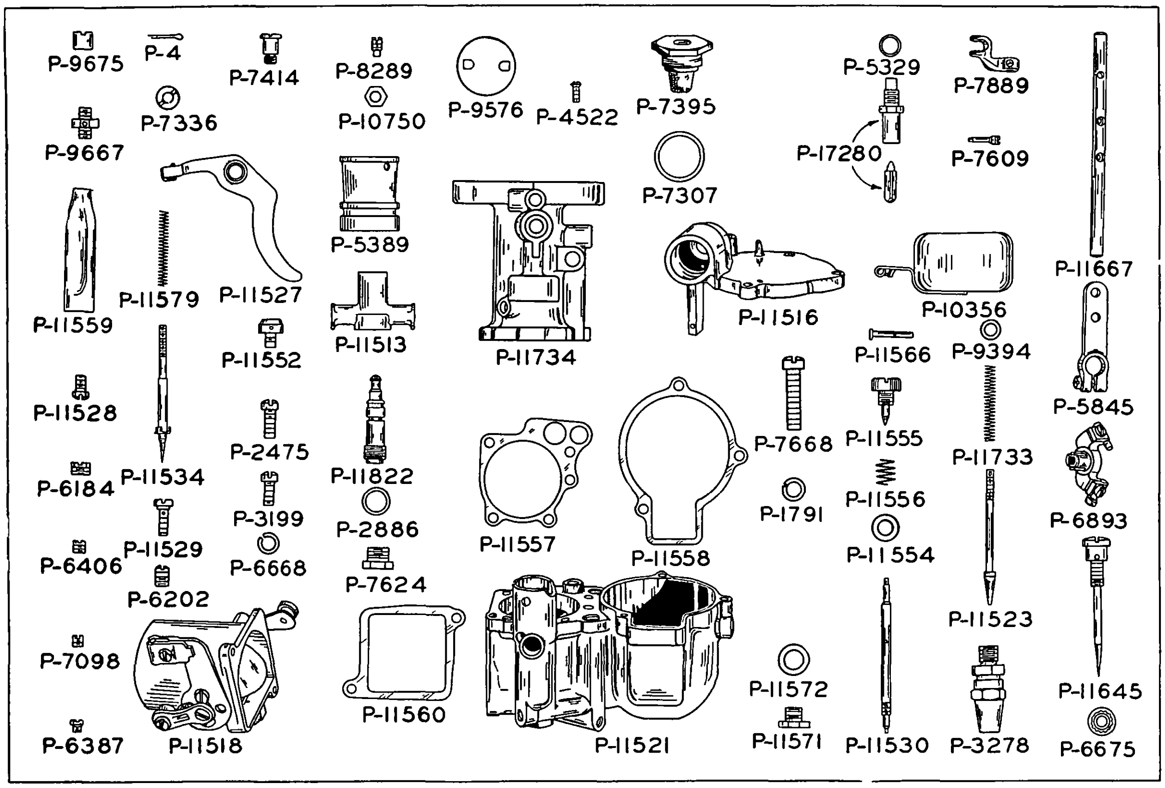
STANDARD SPECIFICATIONS

	A-10931, TV-1 Carburetor
P-5389	$\frac{15}{16}$" Venturi
P-9576	20° Throttle Valve
P-9667	No 28-32 Well Bleeder
P-11530	Idle Tube, No 70 Feed, No 52 Top Holes
P-11552	No 65 High Speed Bleeder
P-11734	Throttle Valve Body, with No 56-70 Idle Holes and Flange Tapped $\frac{5}{16}$-18"
P-11822	No 40-28 Main Discharge Jet

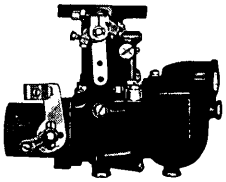
	A-11492, TV-2 Carburetor
P-5344	1$\frac{5}{32}$" Venturi
P-6454	20° Throttle Valve
P-9667	No 26-30 Well Bleeder
P-12193	Throttle Valve Body, with No 56-70 Idle Holes, and Flange Tapped $\frac{3}{8}$-16"
P-12193	Idle Tube, No 62 Feed, No 52 Top, 2 No 70 Bleed Holes
P-11552	No 64 High Speed Bleeder
P-11971	No 30-20 Main Discharge Jet

STANDARD SETTINGS FOR TV-1-2 CARBURETORS

Auxiliary Needle 3/32" Max Lift
Economizer Needle. 7/32" lift.



T-1 N . A-10701
(Obsolete)
1' CARB SAE



Notes and References.

Car models having this carburetor with parts exceptions therefor are shown on back of this page.

‡Indicates Sub assembly part.

PARTS LIST STROMBERG MODEL "T-1" STANDARD CARBURETORS

Part No.	Name	
P-4	Auxiliary Needle Valve Cotter Pin	
P-4	Econ Needle Valve Cotter Pin	
P-1791	Float Chamber Cover Screw Lock Washers	
P-2475	Float Chamber Cover Screws	
P-2475	Main Body Attaching Screws	
P-2886	Main Discharge Plug Gasket	
P-3199	Air Horn Attaching Screws	
P-3278	Gasoline Union (for $\frac{5}{16}$" Gasoline line)	
‡P-3279	Union Nipple	
‡P-3220	Union Nut	
P-3316	Carburetor Attaching Cap Screws	
P-4522	Throttle Valve Screw	
P-5329	Float Needle Valve Seat Gasket	
*P-5389	Venturi Tube	(VAR)
P-5845	Throttle Lever with Clamp Screw	
‡P-3199	Throttle Lever Clamp Screw	
P-6184	Accelerating Well Set Screw Plug	
P-6202	Accelerating Well Bleeder Plug	
P-6202	Auxiliary Gasoline Channel Plug	
P-6202	Idling Discharge Jet Plug	
P-6202	Main Gas Channel Plug	
P-6387	Idle Channel Plug	
P-6406	Accelerating Well Channel Plug	
P-6668	Main Body Attaching Screw Lock Washers	
P-6668	Air Horn Attaching Lock Washers	
P-6675	High Speed Needle Valve Adjustment	
P-6893	Throttle Stop with Screw	
‡P-47	Throttle Stop Clamp Screw	
‡P-12375	Throttle Stop Set Screw	
P-7098	Auxiliary Channel Plug (lower)	
P-7098	Idle Air Bleeder Channel Plug	
P-7098	Idle Gas Channel Plug	
P-7307	Gasoline Coupling Gasket	
P-7336	Auxiliary Needle Valve Adj Nut	
P-7336	Econ Needle Valve Adj Nut	
P-7395	Gasoline Coupling with Strainer	
P-7414	Auxiliary Control Lever Fulcrum Screw	
P-7609	Econ Lever Set Screw	
P-7624	Main Discharge Plug	
P-7668	Float Chamber Cover Screw (long)	
P-7889	Economizer Lever	
P-8289	Venturi Tube Set Screw	
P-9394	Econ Needle Valve Spring Washer	
*P-9576	Throttle Valve	(VAR)
*P-9667	Accelerating Well Bleeder	(VAR)

Part No.	Name	
P-9675	Accelerating Well Bleeder Cap	
P-10356	Float with Lever	
P-10750	Venturi Tube Set Screw Nut	
P-11513	Small Venturi Tube	
P-11516	Float Chamber Cover	
P-11518	Air Horn with Valve	
‡P-11546	Choke Tube Holder (complete)	
‡P-11561	Choke Tube Clamp	
‡P-284	Choke Tube Clamp Screw	
‡P-8806	Choke Tube Clamp Screw Nut	
‡P-11724	Choke Wire Clamp Screw	
‡P-4586	Choke Valve	
‡P-4522	Choke Valve Screws	
‡P-11531	Choke Tube Holder Attaching Screws	
P-11521	Main Body	
P-11523	Econ Needle Valve	
P-11527	Auxiliary Control Lever	
P-11528	Accelerating Well Venturi Set Screw	
P-11529	Small Venturi Tube Set Screw	
P-11530	Idle Tube	
P-11534	Auxiliary Needle Valve	
*P-11552	High Speed Bleeder	(VAR)
P-11554	Idling Needle Valve Washer	
P-11555	Idling Needle Valve	
P-11556	Idling Needle Valve Spring	
P-11557	Main Body Gasket	
P-11558	Float Cover Gasket	
P-11559	Accelerating Well	
P-11560	Air Horn Gasket	
P-11566	Float Fulcrum Pin	
P-11571	Float Chamber Drain Plug	
P-11571	Float Chamber Gas Level Plug	
P-11572	Float Chamber Drain Plug Gasket	
P-11572	Float Chamber Gas Level Plug Gasket	
P-11579	Auxiliary Needle Valve Spring	
P-11645	High Speed Needle Valve	
P-11667	Throttle Lever Stem	
P-11733	Econ Needle Valve Spring	
*P-11734	Throttle Valve Body	(VAR)
‡P-7620	Throttle Stem Bushing (left)	
‡P-9979	Throttle Stem Bushing (right)	
*P-11822	Main Discharge Jet	(VAR)
P-12006	Auxiliary Channel Expansion Plug	
P-17280	Float Needle Valve and Seat	

J-4187 G T-1 Complete Gasket Set

*NOTE On parts marked (VAR) size must be specified when ordering

STANDARD SPECIFICATIONS

A-10701 T-1 Carburetor

P-5389	$\frac{15}{16}$" Venturi
P-9576	20° Throttle Valve
P-9667	No 28-32 Well Bleeder
P-11530	Idle Tube, 70 Feed, 52 Top Hole
P-11552	No. 65 H S. Bleeder
P-11734	Thro Valve Body with No 56-70 Idle Holes and Flange Tapped $\frac{5}{16}$-18"
P-11822	A-40 B-28 Main Jet

STANDARD SETTINGS FOR T-1 CARBURETORS

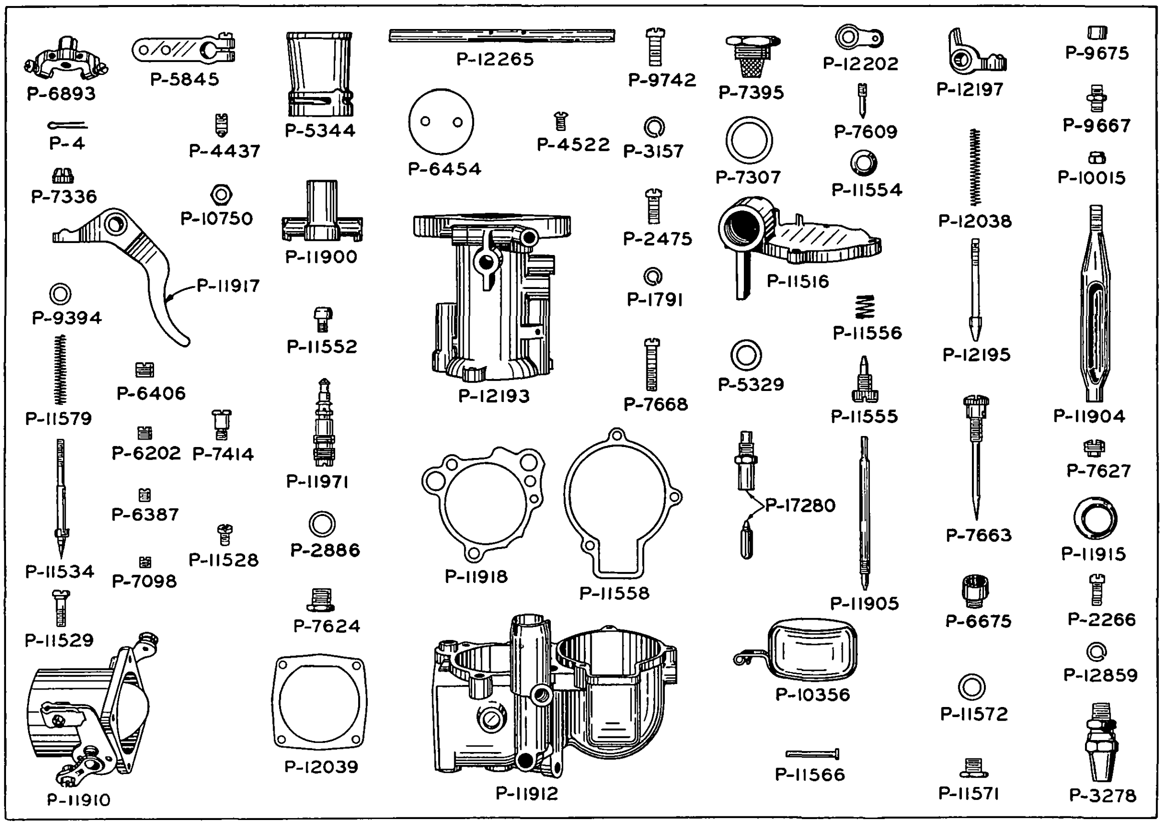
Auxiliary Needle	3/32" Lift
Economizer Needle	⅜" Lift

PARTS EXCEPTIONS MODEL T-1 STANDARD CARBURETOR

(Passenger Cars)

CHRYSLER "62" 1928
3" x 4¼"—6 Cyl.
No A-10711—T-1 Carburetor (Code No 4-27)

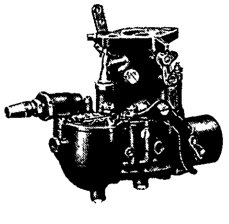
Std. Part No	Special Part	Used on Above Model Car
P-5845 P-11667	P-11578	Throttle Lever and Stem
P-9576	P-11821	Throttle Valve No 52 Hole
P-11516	P-11510	Float Chamber Cover
P-11530	P-11823	Idle Tube, No 70 Feed, No 52 Top, No 70 Bleed Holes
P-11645	P-11553	High Speed Needle Valve
P-11734	P-11509	Throttle Valve Body 31/32" Venturi with No 55-70 Idle Holes
P-11822	P-12040	Main Discharge Jet A-34 B-28
None Shown	P-11964	High Speed Needle Cap



T-2 N . A-10702

(Obsolete)

1¼ CARB SAE



Notes and References

Car models having this carburetor with parts exceptions therefor are shown on back of this page

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‡Indicates Sub assembly part

PARTS LIST STROMBERG MODEL "T-2" STANDARD CARBURETOR

Part No	Name	
P-4	Economizer Needle Valve Cotter Pin	
P-4	Auxiliary Needle Valve Cotter Pin	
P-1791	Float Chamber Cover Screw Lock Washers	
P 2266	Air Horn Attaching Screws	
P-2475	Float Chamber Cover Screws	
P-2886	Main Discharge Plug Gasket	
P-3157	Main Body Attaching Screw Lock Washers	
P 3278	Gasoline Union (for $\frac{5}{16}$ Gasoline Line)	
‡P 3279	Union Nipple	
‡P-3220	Union Nut	
P 3324	Attaching Cap Screws	
P-4437	Large Venturi Tube Set Screws	
P-4522	Throttle Valve Screws	
P-5329	Float Needle Valve Seat Gasket	
*P-5344	Large Venturi Tube	(VAR)
P 5845	Throttle Lever with Screw	
‡P 3199	Throttle Lever Clamp Screw	
P 6202	Accelerating Well Bleeder Channel Plug	
P 6202	Auxiliary Gasoline Channel Plug	
P-6202	Idling Discharge Hole Plug	
P-6202	Main Gas Channel Plug	
P 6387	Idle Channel Plug	
P 6406	Accelerating Well Channel Plug	
*P-6454	Throttle Valve	(VAR)
P-6675	High Speed Needle Valve Adjustment	
P-6893	Throttle Stop with Screws	
‡P-47	Throttle Stop Clamp Screws	
‡P-12375	Throttle Stop Set Screws	
P-7098	Auxiliary Channel Plug (lower)	
P 7098	Economizer Gas Channel Plug	
P 7098	Idle Air Bleeder Channel Plug	
P-7098	Idle Gas Channel Plug	
P-7307	Gasoline Coupling Gasket	
P-7336	Auxiliary Needle Valve Adj Nut	
P-7336	Economizer Needle Valve Adj Nut	
P-7395	Gasoline Coupling with Strainer	
P 7414	Auxiliary Control Lever Fulcrum Screw	
P 7609	Economizer Lever Set Screw	
P-7624	Main Discharge Plug	
P-7627	Accelerating Well Set Screw Plug	
P 7663	High Speed Needle Valve	
P-7668	Float Chamber Cover Screw (long)	
P-9394	Economizer Needle Valve Spring Washer	
*P-9667	Accelerating Well Bleeder	(VAR)
P-9675	Accelerating Well Bleeder Cap	
P-9742	Main Body Attaching Screws	

Part No	Name	
P-10015	Accelerating Well Lock Nut	
P-10356	Float with Lever	
P-10750	Large Venturi Tube Set Screw Nuts	
P-11516	Float Chamber Cover	
P-11528	Accelerating Well Venturi Set Screw	
P 11529	Small Venturi Tube Set Screw	
P-11534	Auxiliary Needle Valve	
*P-11552	High Speed Bleeder	(VAR)
P-11554	Idling Needle Valve Washer	
P 11555	Idling Needle Valve	
P-11556	Idling Needle Valve Spring	
P 11558	Float Cover Gasket	
P 11566	Float Fulcrum Pin	
P-11571	Float Chamber Drain Plug	
P-11571	Float Chamber Gas Level Plug	
P 11572	Float Chamber Drain Plug Gasket	
P-11572	Float Chamber Gas Level Plug Gasket	
P-11579	Auxiliary Needle Valve Spring	
P-11900	Small Venturi Tube	
P-11904	Accelerating Well	
P-11905	Idle Tube	
P-11910	Air Horn with Valve (complete)	
‡P-11546	Choke Tube Holder (Complete	
‡P-11561	Choke Tube Clamp	
‡P-284	Choke Tube Clamp Screw Nut	
‡P-8806	Choke Tube Clamp Screw	
‡P-5449	Choke Valve	
‡P-4522	Choke Valve Screws	
‡P-11531	Choke Tube Holder Attaching Screws	
‡P-11724	Choke Wire Clamp Screw	
P-11912	Main Body	
P-11915	Accelerating Well Cap	
P-11917	Auxiliary Control Lever	
P-11918	Main Body Gasket	
*P-11971	Main Discharge Jet	(VAR)
P-12006	Auxiliary Channel Expansion Plug	
P-12038	Economizer Needle Valve Spring	
P-12039	Air Horn Gasket	
*P-12193	Throttle Valve Body	(VAR)
‡P-9979	Throttle Stem Bushings	
P-12195	Economizer Needle Valve	
P-12197	Economizer Lever with Bushings	
P-12202	Economizer Lever with Roller	
P-12265	Throttle Lever Stem	
P-12859	Air Horn Attaching Lock Washers	
P-17280	Float Needle Valve and Seat	

J 4188-G T 2 Complete Gasket Set

*NOTE On parts marked (VAR) size must be specified when ordering

STANDARD SPECIFICATION

A-10702 T-2 Carburetor

P-5344	1 5/32" Venturi
P-6454	20° Throttle Valve
P-9667	No 26-30 Well Bleeder
P-11552	No 64 H S Bleeder
P-11905	Idle Tube, No 62 Feed, No 52 Top and 2 No 70 Bleed Holes
P-11971	A-30 B-20 Main Disc Jet
P-12193	Thro Valve Body with No 56-70 Idle Holes, Fl Tapped ⅜-16"

STANDARD SETTINGS FOR T-2 CARBURETOR

Auxiliary Needle	3/32" lift
Economizer Needle	7/32' Lift

PARTS AND SETTINGS EXCEPTIONS MODEL T-2 STANDARD CARBURETOR

(Passenger Cars)

FRANKLIN "130" & 12-B 1928 (41497)
3¼" x 4¾"—6 Cyl.
No. A-11302—T-2 Carburetor.

Std. Part No.	Special Part	Used on Above Model Car
P-5449	P-10986	Choke Valve
P-5845	P-12695	Throttle Lever
P-6893	P-10004	Throttle Stop
P-7663	P-12022	High Speed Needle Valve
P-9667	P-7389	Well Bleeder No 32
P-11534	P-13801	Auxiliary Needle Valve
P-11546	P-12680	Choke Tube Holder
P-11900	P-11923	Small Venturi Tube
P-11905	P-12261	Idle Tube 65 Feed, 60 Top Hole
P-11912	P-13812	Main Body
P-11917	P-13799	Auxiliary Control Lever
P-11971	P-12262	Main Discharge Jet A-34 - B-18
P-12193	P-13817	Throttle Valve Body 1 3/32' Venturi No 54-66 Idle Holes, Fl ⅜-16"
P-12265	P-12190	Throttle Lever Stem
P-17280	P-19554	Needle and Seat
None Shown	P-2228	Thermostat Attaching Screw
None Shown	P-1693	Thermostat Attach Screw L'washer
None Shown	P-5015	Throttle Stop Set Screw
None Shown	P-11083	Flange Stud Nut
None Shown	P-11084	Flange Stud Nut Washer
None-Shown	P-12004	High Speed Needle Indicator
None Shown	P-12005	High Speed Needle Cap
None Shown	P-12263	Thermostat Gasket
None Shown	P-13922	Throttle Flange Stud
None Shown	P-12188	Thermostat
None Shown	P-13807	Choke Lever Stem
None Shown	P-13924	Throttle Lever

NOTE Auxiliary Needle Lift 5/32"

FRANKLIN "135-137" 1928-29 (40431)
3½' x 4¾"—6 Cyl.
No. A-12742—T-2 Carburetor.

Std. Part No.	Special Part	Used on Above Model Car
P-5344	P-5344	Venturi Tube 1 5/32'
P-5449	P-10986	Choke Valve
P-5845	P-12695	Throttle Lever
P-6893	P-10004	Throttle Stop
P-7663	P-12022	High Speed Needle Valve
P-9667	P-7389	Well Bleeder No 32
P-11534	P-13801	Auxiliary Needle Valve
P-11546	P-12680	Choke Tube Holder
P-11900	P-11923	Small Venturi Tube
P-11905	P-12261	Idle Tube 65 Feed, 60 Top Hole
P-11912	P-13812	Main Body
P-11917	P-13799	Auxiliary Control Lever
P-11971	P-12262	Main Discharge Jet A-34 - B-18
P-12193	P-13819	Throttle Valve Body with No 53-66 Idle Holes Flange Tapped ⅜-16"
P-12265	P-12190	Throttle Lever Stem
P-17280	P-19554	Needle and Seat
None Shown	P-2228	Thermostat Attaching Screw
None Shown	P-1693	Thermostat Attach Screw L'washer
None Shown	P-5015	Throttle Stop Set Screw
None Shown	P-13922	Throttle Flange Stud
None Shown	P-11083	Flange Stud Nut
None Shown	P-11084	Flange Stud Nut Washer
None Shown	P-12004	High Speed Needle Indicator
None Shown	P-12005	High Speed Needle Cap
None Shown	P-12263	Thermostat Gasket
None Shown	P-12188	Thermostat
None Shown	P-13807	Choke Lever Stem

NOTE Auxiliary Needle Lift 5/32"

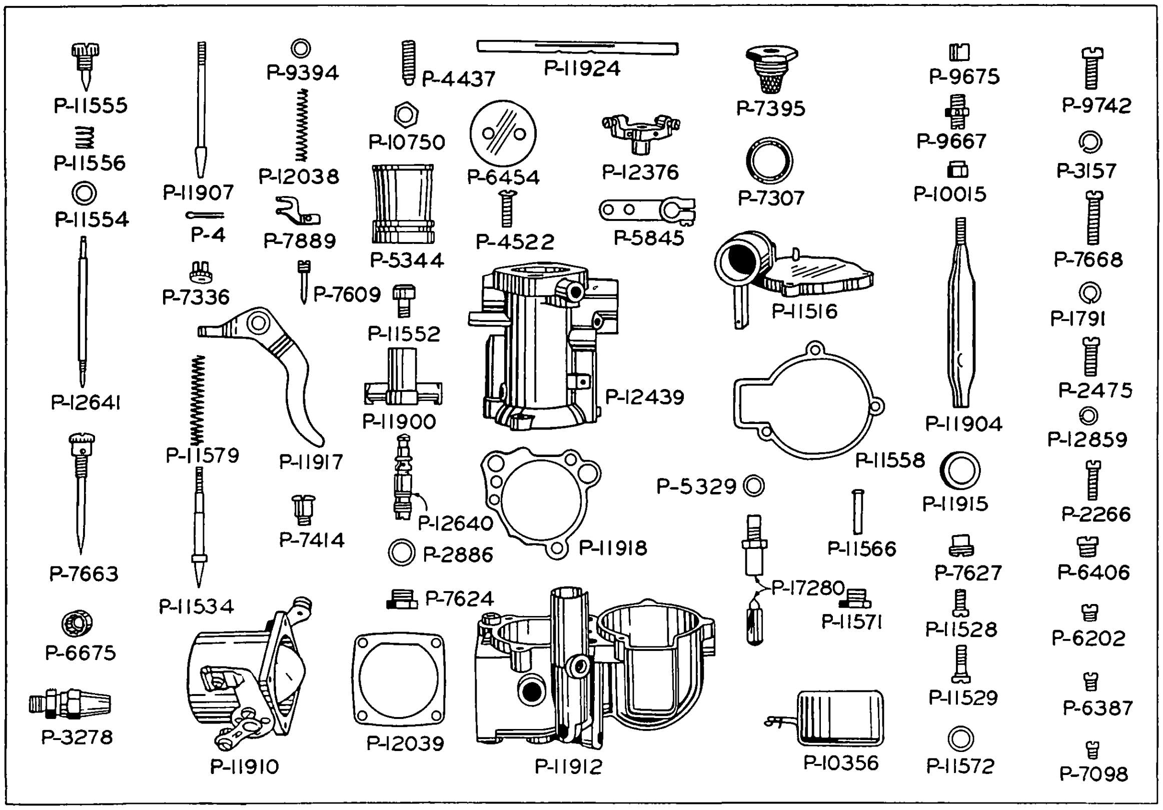
HUPP "CENTURY 6" 1928 (63505)
3¼" x 4¼"—6 Cyl.
No A-11072 T-2 Carburetor (Code No. 19-4)

Std Part No	Special Part	Used on Above Model Car
P-5845 P-12264	P-12381	Throttle Lever and Stem
P-6454	P-10092	Throttle Valve No 52 Hole
P-7663	P-12022	High Speed Needle Valve
P-11552	P-11552	High Speed Bleeder No 70
P-11900	P-11923	Venturi Tube (Small)
P-11905	P-12383	Idle Tube, No 65 Feed, No 52 Top, No 70 Bleed Hole
P-11910	P-12385	Air Horn (Comp)
P-11971	P-12382	No 32-18 Main Jet
P-12193	P-12386	Throttle Valve Body with 1⅛" Venturi, No 55-70 Idle Holes, Fl ⅜-16"
None Shown	P-11999	Economizer Reducer No 40
None Shown	P-12004	High Speed Needle Indicator

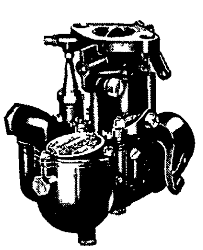
NOTE Auxiliary Needle Lift 5/64"

INDIANA "400" 2 TON 1928 (30889)
3⅜ x 5 6 Cylinders Wisconsin "Y" Engine
A-12002 T-2 Carburetor

Std Part No	Special Parts	for Above Model Truck
P-3278	P-3222	Elbow Union
P-5344	P-5344	Venturi 1 1/32
P-5845	P-7261	Throttle Lever with Screw
P-9667	P-9667	Air Reducer No 28 32
P-11531	P-12016	Choke Tube Holder Screw
P-11546	P-11678	Choke Tube Holder Complete
P-11905	P-12641	Idle Tube
P-11910	P-13192	Air Horn Assy
P-11971	P-12262	Main Discharge Jet A-34 B 18
None Shown	P-5837	Lever Stop with Screws
None Shown	P-7323	Throttle Lever (Loose)
None Shown	P 12258	Air Horn Lever and Stem
None Shown	P-12259	Air Horn Lever and Stem Bushing
None Shown	P-13190	Air Horn



TX-2 N . A-10912
(Obsolete)
1¼" CARB SAE



Notes and References.

Car models having this carburetor with parts exceptions therefor are shown on back of this page

‡Indicates Sub-assembly part

PARTS LIST STROMBERG MODEL "TX-2" CARBURETOR

Part No.	Name	
P-4	Economizer Needle Valve Cotter Pin	
P-4	Auxiliary Needle Valve Cotter Pin	
P-1791	Float Chamber Cover Screws Lock Washers	
P-2266	Air Horn Attaching Screws	
P-2475	Float Chamber Cover Screws	
P-2886	Main Discharge Plug Gasket	
P-3157	Main Body Attaching Screw Lock Washers	
P-3278	Gasoline Union (for ⅜" Gasoline line)	
‡P-3279	Union Nipple	
‡P-3220	Union Nut	
P-3324	Carburetor Attaching Cap Screws	
P-4437	Large Venturi Tube Set Screws	
P-4522	Throttle Valve Screws	
P-5329	Float Needle Valve Seat Gasket	
*P-5344	Large Venturi Tube	(VAR)
P-5845	Throttle Lever with Screw	
‡P-3199	Throttle Lever Clamp Screw	
P-6202	Idle Discharge Hole Plug	
P-6202	Auxiliary Gasoline Channel Plug	
P-6202	Main Gas Channel Plug	
P-6387	Idle Channel Plug	
P-6406	Accelerating Well Channel Plug	
*P-6454	Throttle Valve	(VAR)
P-6675	High Speed Needle Valve Adjustment	
P-7098	Auxiliary Channel Plug (lower)	
P-7098	Economizer Gas Channel Plug	
P-7098	Idle Air Bleeder Channel Plug	
P-7098	Idle Discharge Channel Plugs	
P-7098	Idle Gas Channel Plug	
P-7307	Gasoline Coupling Gasket	
P-7336	Auxiliary Needle Valve Adj Nut	
P-7336	Economizer Needle Valve Adj Nut	
P-7395	Gasoline Coupling with Strainer	
P-7414	Auxiliary Control Lever Fulcrum Screw	
P-7609	Economizer Lever Set Screw	
P-7624	Main Discharge Plug	
P-7627	Accelerating Well Set Screw Plug	
P-7663	High Speed Needle Valve	
P-7668	Float Chamber Cover Screw (long)	
P-7889	Economizer Lever	
P-9394	Economizer Needle Valve Spring Washer	
*P-9667	Accelerating Well Bleeder	(VAR)
P-9675	Accelerating Well Bleeder Cap	
P-9742	Main Body Attaching Screws	
P-10015	Accelerating Well Lock Nut	
P-10356	Float with Lever	
P-10750	Large Venturi Tube Set Screw Lock Nuts	
P-11516	Float Chamber Cover	
P-11528	Accelerating Well Venturi Set Screw	
P-11529	Small Venturi Tube Set Screw	
P-11534	Auxiliary Needle Valve	
*P-11552	High Speed Bleeder	(VAR)
P-11554	Idle Needle Valve Washer	
P-11555	Idle Needle Valve	
P-11556	Idle Needle Valve Spring	
P-11558	Float Cover Gasket	
P-11566	Float Fulcrum Pin	
P-11571	Float Chamber Drain Plug	
P-11571	Float Chamber Gasket Level Plug	
P-11572	Float Chamber Drain Plug Gasket	
P-11572	Float Chamber Gas Level Plug Gasket	
P-11579	Auxiliary Needle Valve Spring	
P-11900	Small Venturi Tube	
P-11904	Accelerating Well	
P-11907	Economizer Needle Valve	
P-11910	Air Horn with Valve (Complete)	
‡P-11724	Choke Wire Clamp Screw	
‡P-11546	Choke Tube Holder (Complete)	
‡P-11561	Choke Tube Clamp	
‡P-284	Choke Tube Clamp Screw	
‡P-8806	Choke Tube Clamp Screw Nut	
‡P-5449	Choke Valve	
‡P-4522	Choke Valve Screws	
‡P-11531	Choke Tube Holder Attaching Screws	
P-11912	Main Body	
P-11915	Accelerating Well Cap	
P-11917	Auxiliary Control Lever	
P-11918	Main Body Gasket	
P-11924	Throttle Lever Stem	
P-12006	Auxiliary Channel Expansion Plug	
P-12038	Economizer Needle Valve Spring	
P-12039	Air Horn Gasket	
P-12376	Throttle Stop with Screws	
‡P-47	Throttle Stop Clamp Screws	
‡P-2267	Throttle Stop Set Screws	
*P-12439	Throttle Valve Body	(VAR)
‡P-9979	Throttle Stem Bushings	
*P-12640	Main Discharge Jet	(VAR)
P-12641	Idle Tube	
P-12859	Air Horn Attaching Screw Lock Washers	
P-17280	Float Needle Valve and Seat	

J-4191-G TX 2 Complete Gasket Set

*NOTE On parts marked (VAR) size must be specified when ordering

Printed in United States of America

STANDARD SPECIFICATIONS

A-10912 TX-2 Carburetor

P-5344	1 3/32' Venturi
P-6454	20° Throttle Valve
P-9667	No 24-28 Well Bleeder
P-11552	No 70 H S Bleeder
P-12439	Thro Valve Body with No 56-70 Idle Holes and Flange Tapped ⅜ 16
P-12640	A-30 B-30 Main Dis Jet
P-12641	No 70 Idle Tube, No 70 Feed No 52 Top and 2 No 60 Bleed Holes

STANDARD SETTINGS FOR TX-2 CARBURETOR

Auxiliary Needle 3/32" Max Lift
Economizer Needle 5/16' Lift

PARTS AND SETTINGS EXCEPTIONS MODEL TX-2 STANDARD CARBURETOR

(Passenger Cars)

DODGE "VICTORY SIX" 1928 (AC-36179)
3⅜" x 3⅞"—6 Cyl

No A 11602—TX 2 Carburetor (Code No 3 24)

Std Part No	Special Part	Used on Above Model Car
P-5845	P-7246	Throttle Lever
P-6454	P-10092	Throttle Valve No 50 Hole
P-7663	P-12022	High Speed Needle Valve
P-9667	P-9667	Well Bleeder No 28 32
P-11516	P-11510	Float Chamber Cover
P-11552	P-11552	High Speed Bleeder No 60
P-11900	P-13082	Venturi Tube (Small)
P-11910	P-12738	Air Horn (Comp)
P-11924	P-11979	Throttle Lever Stem
P-12439	P-12735	Throttle Valve Body 1 3/32 Venturi No 55-70 Idle Holes Fl 7/16
P 12641	P-12736	Idle Tube
None Shown	P-12004	High Speed Needle Indicator
None Shown	P-12005	High Speed Needle Cap

DODGE 'SENIOR SIX'—1928 (AB 200 328)
3⅜" x 4½"—6 Cyl

No A-11082—TX-2 Carburetor (Code No 3-8)

Std Part No	Special Part	Used on Above Model Car
P-5344	P 13082	Venturi Tube 1 5/32
P-5845	P-7246	Throttle Lever
P-6454	P-10092	Throttle Valve No 45 Hole
P-7624	P-12873	Main Discharge Jet Plug
P-7663	P-12022	High Speed Needle Valve
P-9667	P-9667	Accelerating Well Bleeder No 28-32
P-11516	P-11510	Float Chamber Cover
P-11552	P-11552	High Speed Bleeder No 60
P-11910	P-12738	Air Horn (Comp)
P-11924	P-11979	Throttle Lever Stem
P-12439	P-11911	Throttle Valve Body No 54-66 Idle Holes 1 5/32' Vent Fl 7/16
P-12640	P-12370	Main Discharge Jet A-30 B-20
P-12641	P-11905	Idle Tube
None Shown	P-12004	High Speed Needle Indicator
None Shown	P-12005	High Speed Needle Cap
None Shown	P-12874	M Jet Plug Spring

STUDEBAKER "COMMANDER 6" 1928
3⅞' x 5"—6 Cyl

No A 10642—TX-2 Carburetor

Std Part No	Special Part	Used on Above Model Car
P-5845	P-6120	Throttle Lever
P-6454	P-10092	Throttle Valve No 42 Hole
P-7663	P-12022	High Speed Needle Valve
P-11552	P-11552	High Speed Bleeder No 65
P-11910	P-12121	Air Horn (Comp)
P-12439	P-12110	Throttle Valve Body 1⅛ Venturi No 55-68 Idle Holes Fl 13/32
P-12640	P-11799	Main Discharge Jet A-34—B-18
None Shown	P-12004	High Speed Needle Indicator
None Shown	P-12005	High Speed Needle Cap
None Shown	P-7304	Throttle Lever

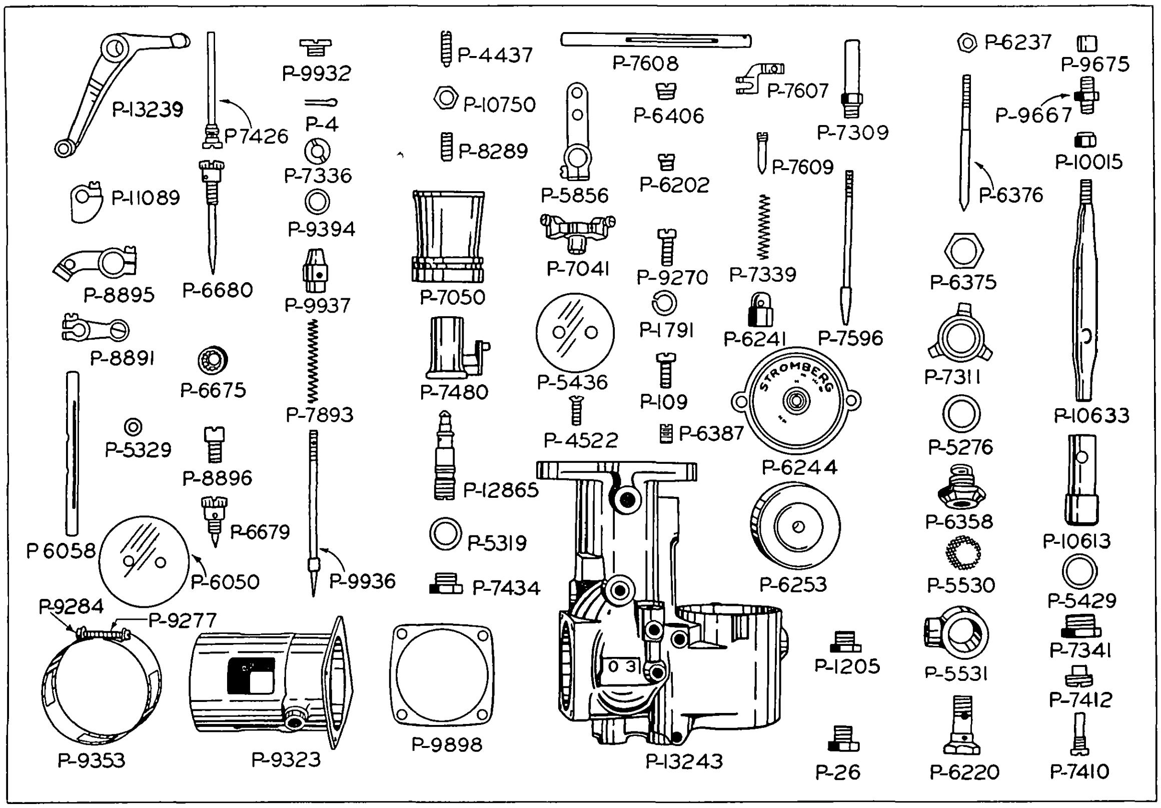
NOTE Economizer Needle ⅜ Lift

STUDEBAKER "DICTATOR 6" 1928
3⅜" x 4½ —6 Cyl

No A-11552—TX 2 Carburetor

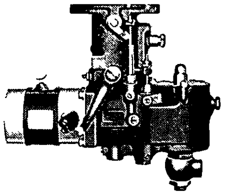
Std Part No	Special Part	Used on Above Model Car
P-5845	P-6120	Throttle Lever
P-6454	P-10092	Throttle Valve No 50 Hole
P-7663	P-12022	High Speed Needle Valve
P-11910	P-12605	Air Horn (Comp)
P-12439	P-12110	Throttle Valve Body 1 1/16 Venturi No 55-68 Idle Holes, Fl 31/32
P-12640	P-12600	Main Discharge Jet A 34—B 18
None Shown	P-11999	Economizer Reducer No 40
None Shown	P-12004	High Speed Needle Indicator
None Shown	P-12005	High Speed Needle Cap
None Shown	P-7304	Throttle Lever

NOTE Economizer Needle ⅜ Lift



O-2 N . A-6702
(Obsolete)
1¼" CARB SAE

O -3 N . A-6703
(Obsolete)
1½" CARB SAE



Notes and References:
Parts O-3 illustrated **Corresponding O-2 parts** shown in listing below

Car models having these carburetors with parts exceptions therefor are shown on back of this page

†These parts not illustrated

‡Indicates Sub assembly part

PARTS LISTS STROMBERG MODELS "O-2" AND "O-3" STANDARD CARBURETORS

O 2 Part No	O-3 Part No	Name
	P-4	Aux Needle Valve Cotter Pin
P-4	P-4	Economizer Needle Valve Cotter Pin
P-26	P-26	Float Chamber Gas Level Plug
P-26	P-26	High Speed Needle Channel Plug
P-109	P-109	Float Chamber Cover Screws
P-1205	P-1205	Strainer Body Drain Plug
P-1791	P-1791	Float Chamber Cover Washers
P-4627	P-1791	Season Air Adj Attach L Washers
P-47	P-2266	Throttle Stop Clamp Screw
P-4437	P-4437	Large Venturi Tube Set Screws
P-4522	P-20904	Throttle Valve Screws
P-5276	P-5276	Float Needle Valve Seat Gasket
P-5319	P-5319	Idle Tube Holder Plug Gasket
P-2886	P-5319	Main Discharge Plug Gasket
P-5329	P-5329	Idle Tube Holder Gasket
P-5429	P-5429	Accelerating Well Plug Gasket
*P-5382	P-5436	Throttle Valve (VAR)
P-5530	P-5530	Strainer
P-5531	P-5531	Strainer Body
P-5845	P-5856	Throttle Lever with Clamp Screw
‡P-3199	‡P-3199	Throttle Lever Clamp Screws
P-6202	P-6202	Economizer Channel Plug
P-6202	P-6202	Main Gasoline Channel Plug
P-6220	P-6220	Strainer Body Stud
P-6237	P-6237	Float Needle Valve Lock Nut
P-6241	P-6241	Float Needle Valve Cap
P-6244	P-6244	Float Chamber Cover with Levers
P-6253	P-6253	Float
P-6358	P-6358	Float Needle Valve Seat
P-6372	P-6372	Gas Str and N V Seat (Comp)
P-6375	P-6375	Float Needle Valve Seat Nut
P-6376	P-6376	Float Needle Valve
P-6387	P-6387	Accelerating Well Channel Plug
P-6387	P-6387	Economizer Needle Channel Plug
P-6387	P-6387	Idle Channel Plug
	P-6406	Idle Discharge Channel Plug
P-6675	P-6675	High Speed Needle Valve Adj
P-6675	P-6675	Idle Needle Valve Adjustment
P-6679	P-6679	Idle Needle Valve (Comp)
P-6680	P-6680	High Speed Needle Valve (Comp)
P-6893	P-7041	Throttle Stop with Screws
‡P-12375	‡P-12375	Throttle Stop Set Screw
P-5344	P-7050	Large Venturi Tube
P-7309	P-7309	Economizer Needle Valve Sleeve
P-7311	P-7311	Float Support
P-7336	P-7336	Economizer Needle Valve Adj Nut
P-7339	P-7339	Economizer Needle Valve Spring
P-7341	P-7341	Accelerating Well Plug
*P-7619	P-7410	Accelerating Gas Nozzle (VAR)
P-7412	P-7412	Accelerating Well Set Screw
P-7626	P-7426	Idle Tube with Holder
P-7434	P-7434	Idle Tube Holder Plug
P-7624	P-7434	Main Discharge Plug
P-7618	P-7480	Small Venturi Tube
P-7615	P-7596	Economizer Needle Valve (Comp)
P-7306	P-7607	Economizer Lever

O 2 Part No	O 3 Part No	Name
P-7635	P-7608	Throttle Lever Stem
P-5015	P-7609	Economizer Needle Channel Plug
	P-7893	Auxiliary Needle Valve Spring
P-8289	P-8289	Aux Needle Valve Set Screw
‡P-8273	P-9394	Aux Needle Valve Spring Washer
‡P-8344		Aux Needle Valve Open Washer
P-8891	P-8891	Choke Lvr with Wire Conn & Screw
‡P-46	‡P-46	Choke Lever Clamp Screw
‡P-9270	‡P-9270	Choke Wire Clamp Screw
P-8895	P-8895	Choke Tube Holder with Screws
‡P-284	‡P-284	Choke Tube Clamp Screw
‡P-2267	‡P-2267	Choke Tube Holder Clamp Screw
	P-8986	High Speed Needle Valve Seat
P-2866	P-9270	Season Air Adj Attach Screws
†P-9327	P-9328	Straight Sesn Air Adj with Valve
‡P-5578	‡P-6058	Choke Lever Stem
‡P-5449	‡P-6050	Choke Valve
‡P-4522	‡P-4522	Choke Valve Screws
‡P-9352	‡P-9323	Season Air Adj Sleeve
‡P-9324	‡P-9353	Season Air Adj Shutter
‡P-9277	‡P-9277	Sesn Air Adj Shutter Lock Screw
‡P-9284	‡P-9284	Sesn Air Adj Shut Lock Sc Nut
P-9394	P-9394	Economizer Ndle Valve Sprg Washer
*P-7389	P-9667	Accelerating Well Bleeder (VAR.)
	P-9675	Accel Well Bleeder Cap
P-9120	P 9898	Season Air Adj Gasket
	P-9932	Auxiliary Lever Fulcrum Screw
	P-9936	Auxiliary Needle Valve
	P-9937	Aux Needle Valve Guide
	P-10015	Accel Well Sleeve Nut
	P-10613	Accel Well Sleeve
	P-10633	Accel Well
†P-2290	P-10750	Large Venturi Tube Set Screw Nut
	P-11089	Auxiliary Cam
	‡P-285	Auxiliary Cam Clamp Screw
*P-8349	P-12865	Main Discharge Jet (VAR.)
	P-13239	Aux Lever with Roller
*P-8322	P-13243	Main Body (VAR)
‡P-7218	‡P-7238	Throttle Stem Bushing
‡P-7620		Throttle Stem Grooved Bushing
P-47	None Shown	Aux Tube Holder Attach Screw
P-4627	None Shown	Aux Tube Holder Lock Washer
P-6387	None Shown	Aux Needle Channel Plug
*P-7333	None Shown	Idle Discharge Jet (VAR.)
P-7337	None Shown	Idle Discharge Jet Plug
P-7435	None Shown	Accelerating Well Baffle Sleeve
P-7696	None Shown	Accelerating Well Sleeve with Hldr
P-8167	None Shown	Auxiliary Tube Holder
P-8294	None Shown	Aux Needle Valve with Lvr (Comp)
‡P-8293	None Shown	Aux Lever and Screw
‡P-2866	None Shown	Aux Wire Clamp Screw
‡P-8274	None Shown	Aux Needle Valve Fulcrum Pin
‡P-8275	None Shown	Aux Ndl Valve Locking Wire
‡P-7446	None Shown	Aux Needle Valve Spring
‡P-8276	None shown	Aux Needle Valve Spring Bushing

J-4427-G O-2 Complete Gasket Set J-4425-G O 3 Complete Gasket Set

*NOTE On parts marked (VAR) size must be specified when ordering

Printed in United States of America

STANDARD SPECIFICATIONS

A-6702 O-2 Carburetor

P-5344	15/16" Venturi
P-7333	No. 52 Idling Discharge Jet
P-7389	No. 30 Well Bleeder
P-7615	No. 56 Econ. Needle
P-7619	No. 54 Accel. Gas Nozzle
P-7626	Idle Tube No. 62 Feed, No. 52 Top (2 No. 58 Bleed Hole)
P-8349	No. 34-18 Main Discharge Jet

A-6703 0-3 Carburetor

P-5436	Throttle Valve 20°
P-7050	1 1/16" Venturi
P-7410	No. 53 Accel. Gas Nozzle
P-7426	Idle Tube No. 63 Feed, No. 52 Top (2 No. 58 Bleed Hole)
P-7596	No. 56 Econ. Needle
P-8986	No. 36 High Speed Needle Valve Seat
P-9667	No. 28-32 Well Bleeder
P-12865	A-28 B-15 Main Discharge Jet
P-13243	Main Body with No. 53-66 Idle Holes

STANDARD SETTINGS FOR O-2 AND O-3 CARBURETORS

Economizer Needle:
- O-2—5/16" Lift.
- O-3— 3/8" Lift.

PARTS AND SETTINGS EXCEPTIONS MODELS O-2 AND O-3 STANDARD CARBURETORS

(Passenger Cars)

LINCOLN 1928-29-30
3½" x 5"—8 Cyl.
No. A-11383—O-3 Carburetor (Code No. 40-7)

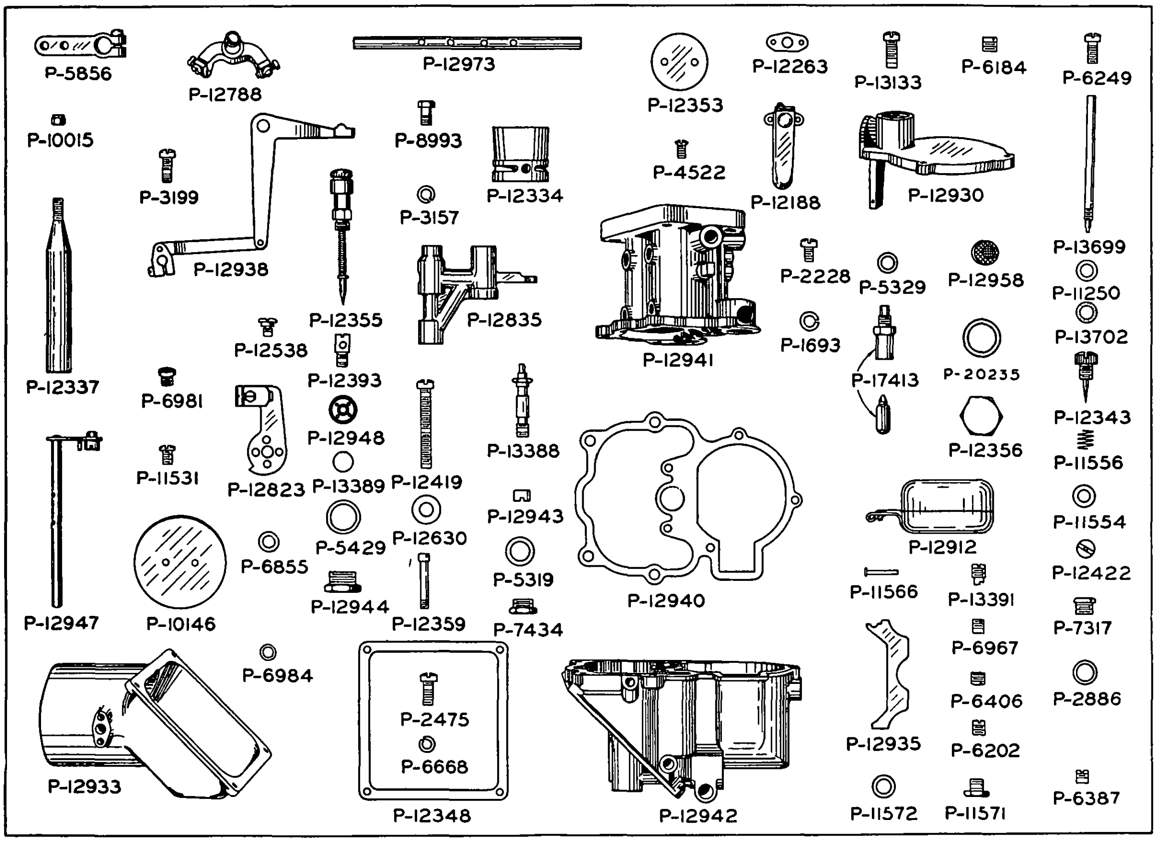
Std. Part No.	Special Part	Used on Above Model Car
P-5436	P-10753	Throttle Valve No. 45 Hole
P-5856	P-7110	Throttle Lever
P-6244	P-10325	Float Chamber Cover
P-6372	P-9434	Gas Strainer & Seat
P-6376	P-10999	Float Needle Valve
P-6675	P-9614	Idle Needle Valve Adjustment
P-6675	P-9614	High Speed Needle Adjustment
P-6680	P-10877	High Speed Needle Valve
P-7041	P-7107	Throttle Stop
P-7050	P-7050	Venturi Tube 1 5/16"
P-7426	P-14299	Idle Tube, No. 58 Feed and No. 52 Top (2 No. 58 Bleeder Holes)
P-7608	P-7819	Throttle Lever Stem
P-8986	P-9682	High Speed Needle Seat No. 46
P-12865	P-13698	Main Discharge Jet A-28-B-9
P-13243	P-11313	Main Body with No. 52-63 Idle Holes

NOTE: Econ. Needle: 5/16" Lift.

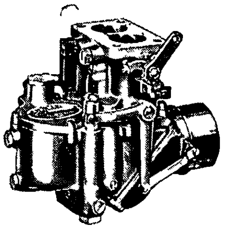
PIERCE ARROW "81" 1928 (116561)
3½" x 5"—6 Cyl.
No. A-11463—O-3 Carburetor

Std. Part No.	Special Part	Used on Above Model Car
P-5856	P-12115	Throttle Lever
P-6372	P-12431	Gas Strainer & Needle Valve Seat
P-6376	P-10999	Float Needle Valve
P-7041	P-7107	Throttle Stop
P-7050	P-7050	Venturi Tube 1¼"
P-7426	P-12433	Idle Tube, No. 68 Feed and No. 52 Top (2 No. 65 Bleed Hole)
P-7608	P-7819	Throttle Lever Stem
P-12865	P-12432	Main Discharge Jet No. 34-28
P-13239	P-12436	Auxiliary Lever
P-13243	P-11313	Main Body with No. 53-66 Idle Holes
None Shown	P-12188	Thermostat

NOTE: Econ. Needle: 5/16" Lift.



OO-2N .-A11502
(Obsolete)
1¼" DUAL CARB



Notes and References.

Car models having this carburetor with parts exceptions therefor are shown on back of this page

†These parts not illustrated

‡Indicates Sub-assembly part

PARTS LIST STROMBERG MODEL "OO-2" STANDARD CARBURETOR

Part No.	Name	
P-1693	Thermosat Attaching Screw Lock Washer	
P-2228	Thermostat Attaching Screw	
P-2475	Air Horn Attaching Screw	
P-2475	Float Chamber Cover Screw	
P-2886	Main Gas Channel Plug Gasket	
P-3157	Large Venturi Tube Set Screw Lock Washer	
P-3157	Main Body Attaching Screw Lock Washer	
P-3199	Small Venturi Attaching Screw	
P-3222	Gasoline Elbow Union	
‡P-3221	Union Elbow	
‡P-3220	Union Nut	
P-5319	Main Discharge Plug Gasket	
P-5329	Float Needle Valve Seat Gasket	
P-5329	Main Discharge Jet Nut Gasket	
P-5429	High Speed Check Valve Channel Plug Gasket	
P-5668	Float Chamber Cover Screw Lock Washer	
P-5856	Throttle Lever with Screw	
‡P-3199	Throttle Lever Clamp Screw	
P-6184	High Speed Needle Channel Plug	
P-6202	Accelerating Well Channel Plug	
P-6249	Float Chamber Cover Screw (long)	
P-6387	Idle Feed Channel Plug	
P-6406	Idle Channel Hole Plug	
P-6668	Air Horn Attaching Lock Washer	
P-6668	Small Venturi Attaching Screw Washer	
P-6855	Main Discharge Jet Gasket	
*P-6967	Thermostatic Reducer	(VAR)
*P-6981	Gasoline Reducer	(VAR)
P-6984	Gasoline Reducer Gasket	
P-7317	Main Gas Channel Plug	
P-7434	Main Discharge Plug	
P-8993	Large Venturi Tube Set Screw	
P-10015	Accelerating Well Lock Nut	
P-10146	Choke Valve	
P-11250	Idle Tube Washer	
P-11531	Choke Tube Holder Attaching Screw	
P-11554	Idling Needle Valve Washer	
P-11556	Idling Needle Valve Spring	
P-11566	Float Fulcrum Pin	
P-11571	Float Chamber Gas Level Plug	
P-11571	Float Chamber Drain Plug	
P-11572	Float Chamber Drain Plug Gasket	
P-11572	Float Chamber Gas Level Plug Gasket	
P-12188	Thermostat	
P-12263	Thermostat Gasket	
*P-12334	Large Venturi Tube	(VAR)
P-12337	Accelerating Well	
P-12343	Idling Needle Valve	
P-12348	Air Horn Gasket	
*P-12353	Throttle Valve	(VAR)
P-12355	High Speed Needle Valve (complete)	
‡P-12358	High Speed Needle Valve	
‡P-12354	High Speed Needle Valve Adjustment	
‡P-12394	High Speed Needle Valve Guide	
‡P-8344	High Speed Needle Valve Open Washer	
‡P-12397	High Speed Needle Valve Spring	
‡P-12395	High Speed Needle Valve Spring Washer	
P-12356	Strainer Plug	
*P-12359	High Speed Bleeder	(VAR.)
*P-12393	High Speed Needle Valve Seat	(VAR.)
P-12419	Small Venturi Attaching Screw (long)	
*P-12422	Idle Air Bleeder	(VAR)
P-12630	Small Venturi Tube Gasket	
P-12788	Throttle Stop with Screws	
‡P-47	Throttle Stop Clamp Screw	
‡P-2267	Throttle Stop Set Screw	
P-12823	Choke Tube Holder with Screw (complete)	
‡P-11561	Choke Tube Clamp	
‡P-12868	Choke Tube Clamp Screw	
‡P-8806	Choke Tube Clamp Screw Nut	
‡P-11545	Choke Tube Holder	
P-12835	Small Venturi Tube	
P-12912	Float with Lever	
P-12930	Float Chamber Cover	
P-12933	Air Horn	
†P-12934	Air Horn with Valve (complete)	
P-12935	Float Chamber Cover Gasket Support	
P-12938	Auxiliary Control Lever (complete)	
‡P-2266	Auxiliary Control Lever Clamp Screw	
‡P-12538	Auxiliary Control Lever Fulcrum Screw	
P-12940	Main Body Gasket	
*P-12941	Throttle Valve Body	(VAR)
‡P-10351	Throttle Stem Bushing	
P-12942	Main Body	
P-12943	Main Discharge Jet Nut	
P-12944	High Speed Check Valve Channel Plug	
P-12947	Choke Lever with Stem (complete)	
‡P-12867	Choke Wire Clamp Screw	
P-12948	High Speed Check Valve Seat	
P-12958	Strainer	
P-12973	Throttle Lever Stem	
P-13133	Main Body Attaching Screw	
*P-13388	Main Discharge Jet	(VAR.)
P-13389	High Speed Check Valve	
P-13391	Accelerating Well Check Valve	
P-13699	Idle Tube	
P-13702	Idle Tube Gasket	
P-17413	Float Needle Valve & Seat	
P-20235	Strainer Plug Gasket	
P 20904	Choke Valve Screw	
P-20904	Throttle Valve Screw	

NOTE P-17413 Fl Needle Valve and Seat Used with Die Cast Cover only
P-19550 Fl Needle Valve and Seat Used with Brass Cast Cover only

J-4361-G OO-2 Complete Gasket Set

*NOTE On parts marked (VAR) size must be specified when ordering

Printed in United States of America

STANDARD SPECIFICATION

A-11502 00-2 Carburetor

P-6967	No 45 Thermostat Reducer
P-6981	No 54 Gas Reducer
P-12334	31/32' Venturi
P-12353	Thro Valve 19½°
P-12359	No 70 H S Bleeder
P-12393	No 40 High Speed Needle Valve Seat
P-12422	No 60 Idle Air Reducer
P-12941	Thro Valve Body with No 56 Top, 2 No 56 Lower Idle Disch Holes
P-13388	A-28 B-20 Main Jet
P-13679	Idle Tube 71 Feed (2 No 58 Bleed Hole)

STANDARD SETTINGS FOR OO-2 CARBURETOR

Thro Valve Location Exposure of lower idle holes with throttle valve fully closed to be from 024 to 035' (No 73 drill go and No 65 drill no go gauge)

PARTS AND SETTINGS EXCEPTIONS MODEL OO-2 STANDARD CARBURETOR

(Passenger Cars)

AUBURN "8-115" 1928 (J-2-81)

3¼" x 4½"—8 Cyl.

No. A-11842—OO-2 Carburetor

Std Part No.	Special Part Used on Above Model Car	
P-5856	P-13098	Throttle Lever
P-6981	P-6981	Gas Reducer No 52
P-12334	P-12334	Venturi Tube 1"
P-12353	P-12353	Throttle Valve 19°
P-12823	P-10263	Choke Tube Holder
P-12947	P-12976	Choke Lever Stem
P-13388	P-12939	Main Discharge Jet A-28 - B-20
P-13699	P-12971	Idle Tube 70 Feed and (2-57 Bleed Hole)
None Shown	P-12428	Throttle Lever (Loose)
None Shown	P-10262	Choke Lever

AUBURN '8-88" 1928 (J-2-82)

2¾" x 4¾"—8 Cyl

No A-11852—OO-2 Carburetor

Std Part No	Special Part Used on Above Model Car	
P-3222	P-8644	Elbow Union
P-5856	P 13098	Throttle Lever
P-12334	P-12334	Venturi Tube 15/16"
P-12353	P-12353	Throttle Valve 19°
P-12359	P-12359	High Speed Bleeder No 65
P-12422	P-12422	Idle Air Bleed No 55
P-12788	P-6123	Throttle Stop
P-12823	P-8895	Choke Tube Holder
P-12934	P-12974	Air Horn (Comp)
P-12941	P-13085	Throttle Valve Body No 56 Top, 2 No 56 Lower Idle Holes
P-13338	P-12939	Main Discharge Jet A-34—B-20
None Shown	P-8891	Choke Lever ....

HUPP "E" 1928 (59534)

3" x 4¾"— 8 Cyl.

No A-11582—OO-2 Carburetor

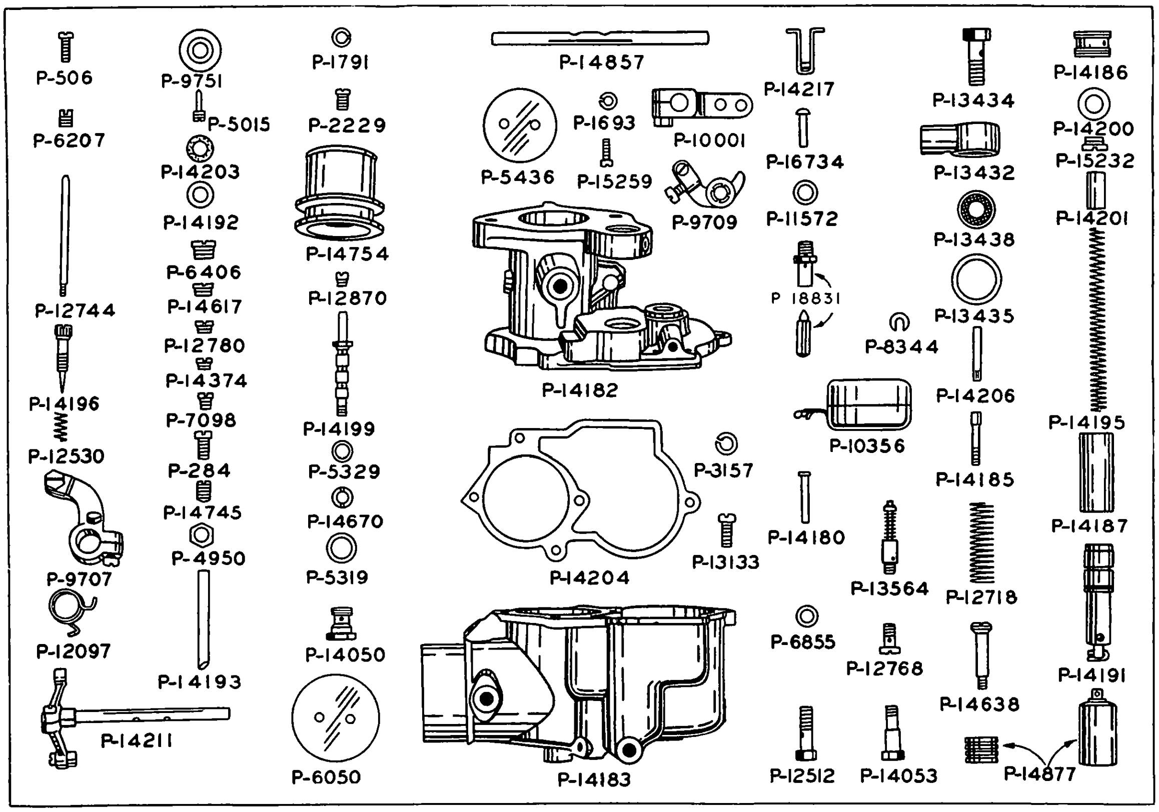
Std Part No	Special Part Used on Above Model Car	
P-5856	P-12815	Throttle Lever
P-12334	P-12334	Venturi Tube 15/16"
P-12359	P-12359	High Speed Bleeder No 65
P-12422	P-12422	Idle Air Bleeder No 55
P-12823	P-12962	Choke Tube Holder
P-12933	P-12625	Air Horn (Castings)
P-12934	P-12626	Air Horn (Comp)
P-12938	P-13084	Auxiliary Control Lever
P-12941	P-13083	Throttle Valve Body No 56 Top 2 No 56 Lower Idle Holes
P-12947	P-12629 P-12961	Choke Lever Stem Choke Lever
P-12973	P-12341	Throttle Lever Stem

HUPP "M" 1928 (70012)

3" x 4¾"—8 Cyl

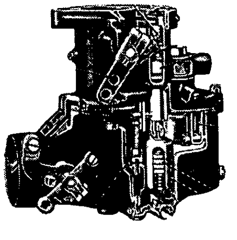
No A-11692—OO-2 Carburetor

Std Part No	Special Part Used on Above Model Car	
P-5856	P-12815	Throttle Lever
P-12334	P-12334	Venturi Tube 15/16"
P-12359	P-12359	High Speed Bleeder No 65
P-12422	P-12422	Idle Air Bleeder No 55
P-12934	P-12626	Air Horn (Comp)
P-12938	P-13084	Auxiliary Control Lever
P-12941	P-13083	Throttle Valve Body No 56 Top, 2 No 56 Lower Idle Holes
P-12973	P-12341	Throttle Lever Stem



UT-2
N . A-13732
(Obsolete)
1¼ CARB SAE

UT-3
N . A-13733
(Obsolete)
1½" CARB SAE



Notes and References:
Parts UT-3 illustrated corresponding UT-2 parts shown in listing below

‡Indicates Sub assembly part

PARTS LISTS STROMBERG MODELS "UT-2" AND "UT-3" STANDARD CARBURETOR

UT 2 Part No	UT 3 Part No	Name
P-284	P-284	Vac Econ Piston Slv Plug Set Sc
P-506	P-506	Choke Valve Screw
P-1693	P-1693	Choke Valve Screw L'washers
P-1791	P-1791	Large Venturi Tube Set Sc Washer
P-2229	P-2229	Large Venturi Tube Set Screw
P-3157	P-3157	Main Body Attach Sc L'washer
P-3278	P-3278	Gasoline Union
‡P-3279	‡P-3279	Union Nipple
‡P-3220	‡P-3220	Union Nut
P-4950	P-4950	Vac Econ Pstn Slv Pg Set Sc L Nut
P-5015	P-5015	Throttle Stem Collar Set Pin Screw
P-5319	P-5319	Main Discharge Jet Plug Gasket
P-5329	P-5329	Main Discharge Jet Gasket
*P-6454	P-5436	Throttle Valve (VAR)
P-5449	P-6050	Choke Valve
P-6207	P 6207	High Speed Bleeder Channel Plug
P-12780	P-6406	Idling Discharge Hole Plug
P-6855	P-6855	Main Metering Jet Gasket
P-6855	P-6855	Pump Metering Jet Gasket
P-6855	P-6855	By-Pass Jet Gasket
P-7098	P-7098	Idle Air Bleeder Channel Plug
P-8344	P-8344	Vac Econ Piston Link Washer
P-11969	P-9707	Chk Con Tb Hldr with Sc (Comp)
‡P-11561		Choke Control Tube Clamp
‡P-12868	‡P-9742	Chk Con Tb Hldr Clamp Screw
	‡P-9744	Chk Con Tb Hldr Clamp Screw
‡P-8806		Chk Con Tb Clamp Screw Nut
P-12788	P-9709	Throttle Stop with Screws
‡P-47	‡P-9647	Throttle Stop Clamp Screw
‡P-2267	‡P-9742	Throttle Stop Set Screw
P-9751	P-9751	Throttle Stem Collar
P-5856	P-10001	Throttle Lever with Screw
‡P-3199	‡P-15817	Throttle Lever Clamp Screw
P-10356	P-10356	Float with Lever
P-11572	P-11572	Float Needle Valve Seat Gasket
P-11572	P-11572	Strainer Body Bolt Gasket
	P-12097	Choke Lever Return Spring
*P-12512	P-12512	Main Metering Jet (VAR.)
P-12530	P-12530	Idle Needle Valve Spring
'P-12718	P-12718	Pump Piston Spring
P-12661	P-12744	Idle Tube
*P-12768	P-12768	By-Pass Jet (VAR)
P-12780	P-12780	Idle Discharge Channel Plug
P-12780	P-12780	Vent Channel Plug
*P-12870	P-12870	High Speed Bleeder (VAR)
P-13133	P-13133	Main Body Attaching Screw
P-13432	P-13432	Strainer Body
P-13434	P-13434	Strainer Body Bolt
P-13435	P-13435	Strainer Body Gasket
P-13438	P-13438	Strainer
P-13564	P-13564	Economizer Needle Valve (Comp)
‡P-10173	‡P-10173	Economizer Needle Valve Washer
‡P-8344	†P-8344	Econ Needle Valve Open Wash
‡P-13551	‡P-13551	Economizer Needle Valve Spring
P-14050	P-14050	Main Discharge Jet Plug
*P-14053	P-14053	Pump Metering Jet (VAR)
P-14180	P-14180	Float Fulcrum Pin
*P-14271	P-14182	Throttle Valve Body (VAR)
'P-14202	‡P-14202	Throttle Stem Bushing
P-14272	P-14183	Main Body
P-15010	P-14185	Econ Push Rod
P-14186	P-14186	Vacuum Econ Piston Sleeve Plug
P 14456	P-14187	Vacuum Econ Piston Sleeve
P-14466	P-14191	Vac Econ Piston with Link
P-14192	P-14192	Throttle Stem Packing Washer
P-14458	P-14193	Vent Tube
P-14780	P-14195	Vacuum Econ Piston Spring
P-14196	P-14196	Idle Needle Valve
*P-14933	P-14199	Main Discharge Jet (VAR)
P-14200	P-14200	Vac Econ Piston Gasket (on top)
P-14201	P-14201	Vac Econ Piston Spring Cup
P-14203	P-14203	Throttle Lever Stem Packing
P-14459	P-14204	Main Body Gasket
P-14206	P-14206	Vacuum Econ Guide
P-14920	P-14211	Choke Lever with Stem (Comp)
‡P-10981	‡P-9647	Choke Wire Clamp Screw
	‡P-46	Choke Lever Clamp Screw
P-14217	P-14217	Float Lever Support and Bushing
P-14374	P-14374	Economizer Gas Channel Plug
P 14617	P-14617	Main Gas Channel Plug
P-14638	P-14638	Pump Piston Valve
P-12801	P-14670	Main Discharge Jet Nut .. ...
P-14745	P-14745	Vent Tube Set Screw
*P-14853	P-14754	Large Venturi Tube (VAR)
P-14785	P-14857	Throttle Lever Stem
P-14877	P-14877	Pump Piston and Sleeve
P-15232	P-15232	Vac Econ Reducer Plug
P-15259	P-15259	Throttle Valve Screw ... ..
P-15346	P-1693	Thro Valve Screw Lock Washers
P-16734	P-16734	Float Lever Support Drive Screw
P-18831	P-18831	Float Needle Valve and Seat
P-14646		Choke Tube Holder Attach Screw

J-4197-G UT-2 Complete Gasket Set
J-4198-G UT-3 Complete Gasket Set

*NOTE On parts marked (VAR) size must be specified when ordering

STANDARD SPECIFICATIONS

A-13732 UT-2 Carburetor

P-6454	Throttle Valve 20°
P-12661	Idle Tube No 68 Feed and No 62 Top Holes
P-12512	053 Meter Jet
P-12768	027" By Pass Jet
P-12870	No 65 H S Bleeder
P-14053	No 70 Pump Meter Jet
P-14271	Thro Valve Body with No 56-66 Idle Holes Fl Tapped ⅜-16'
P-14853	15/16" Venturi
P-14933	No 32 Main Disc Jet

A-13733 UT-3 Carburetor

P-5436	Throttle Valve 20°
P-12512	064 Meter Jet
P-12744	Idle Tube No 68 Feed and No 62 Top Holes
P-12768	034' By Pass Jet
P-12870	No 60 H S Bleeder
P-14053	No 52 Pump Meter Jet
P-14182	Thro Valve Body with No 56-66 Idle Holes, Fl Tapped ⅜-16
P-14199	No 28 Main Disch Jet
P-14754	1 1/16" Venturi

STANDARD SETTINGS FOR UT-2-3 CARBURETORS

Throttle Valve Location Lower lip of throttle valve to be flush plus or minus 004 with top of lower idle hole

Pump Capacity UT-2—18 to 22 CC per 10 strokes
UT-3—15 to 20 CC per 10 strokes

PARTS AND SETTINGS EXCEPTIONS MODEL UT-2-3 STANDARD CARBURETORS
(Trucks)

AUTOCAR 1929-'30 "SA" AND "SD" (6-2SA-210)
3¾" x 4½" 6 Cyl.
A-13913 UT-3 Carburetor

Std Part No	Special Part	Used on Above Model Car
P-3278	P-755	Union Nipple
P-9707	P-14831	Tube Holder
P-9709	P-15298	Thro Stop
P-10001	P-16062	Thro Lever
P-12097	P-15657	Torsion Spring
P-12768	P-12768	033 By Pass Jet
P-12870	P-12870	No 56 H S Bleeder
P-13432	P-14787	Strainer Body
P-14053	P-14053	No 58 Pump Meter Jet
P-14182	P-14182	Thro Valve Body with No 55-64 Idle Holes Fl ⅜-16' Tapped
P-14199	P-14894	No 28 M D Jet
P-14211	P-14895	Air Horn Lever with Stem

NOTE Pump Capacity 18 C C per 10 Strokes

AUTOCAR 1929-'30 MODEL "SD" (6-SA-450-D)
4' x 4¾" 6 Cyl
A-14253 UT-3 Carburetor

Std Part No	Special Part	Used on Above Model Car
P-3278	P-755	Union Nipple
P-9707	P-14831	Tube Holder
P-9709	P-15299	Thro Stop
P-10001	P-13498	Thro Lever
P-12512	P-12512	072' Meter Jet
P-12744	P-14850	Idle Tube 64 Feed, 62 Top Hole
P-12768	P-12768	038 By Pass Jet
P-12870	P-12870	No 54 H S Bleeder
P-13432	P-14787	Strainer Body
P-14053	P-14053	No 58 Pump Meter Jet
P-14182	P-14182	Thro Valve Body with No 54-62 Idle Holes Fl ⅜-16' Tapped
P-14211	P-15183	Air Horn Lever and Stem
P-14754	P-14754	1 3/16" Venturi

AUTOCAR 1929-'30 "SA" AND "SDA" (6-SA-250-C)
4" x 4½" 6 Cyl.
A-14263 UT-3 Carburetor

Std Part No	Special Parts	Used on Above Model Engine
P-3278	P-755	Union Nipples
P-9707	P-14831	Tube Holder
P-9709	P-15298	Throttle Stop
P-10001	P-16062	Throw Lever
P-12097	P-15657	Torsion Spring
P-12744	P-15185	Idle Tube 62 Feed 60 Top Hole
P-12768	P-12768	031' By Pass Jet
P-12870	P-12870	No 54 H S Bleeder
P-13432	P-14787	Strainer Body
P-14053	P-14053	No 58 Pump Meter Jet
P-14182	P-14182	Thro Valve Body with No 55-62 Idle Holes, Fl ⅜-16" Tapped
P-14211	P-15183	Air Horn Lever with Stem
P-14754	P-14754	1 3/32" Venturi

DODGE TRUCK 1931 "F-40" AND "F-60"
3⅞" x5" 6 Cyl
J-4162 UT-3 Carburetor and Equipment

Std Part No	Special Part	Used on Above Model Truck
P-9709	P-9741	Thro Stop
P-10001	P-10001	Blank Throttle Lever Tap ¼"—20 on 1½ Centers)
P-12512	P-12802	Adj Nozzle Attach
P-12768	P-12768	038' By Pass Jet
P-12870	P-12870	No 56 H S Bleeder
P-14053	P-14053	No 58 Pump Meter Jet
P-14182	P-14182	Thro Valve Body with No 54-66 Idle Holes Fl ⅜-16" Tapped
P-14754	P-14754	1 5/16" Venturi

EQUIPMENT

J-4162 Manifold Fittings—P-4753 Gaskets—P-4754 Gaskets—P-6385 Studs—P-7428 Nuts

FEDERAL TRUCK (2-C-2161)
1931-'32 MODEL "U-6"
4' x 4½" 6 Cyl.
A-13793 UT-3 Carburetor (Code No 82-2)

Std Part No	Special Part	Used on Above Model Truck
P-10001	P-9705	Throttle Lever
P-12512	P-13395	056' Met Jet
P-12870	P-12870	No 56 H S Bleeder
P-14053	P-14053	No 70 Pump Meter Jet
P-14182	P-14182	Thro Valve Body with 56-66 Idle Holes Fl 13/32' Drill

NOTE Pump capacity 18 to 22 C C per ten strokes

GENERAL MOTORS TRUCK
1930 Model "T-60"-5002
3⅝"x5" 6 Cyl
J-4126 UT-3 Carburetor and Equipment

Std Part No	Special Part	Used on Above Model Truck
P-3278	P-3222	Union Elbow
P-10001	P-16584	Thro Lever
P-12512	P-12512	073 Meter Jet
P-12768	P-12768	044" By Pass Jet
P-12870	P-12870	No 56 H S Bleeder
P-14182	P-14182	Thro Valve Body with No 54-64 Idle Holes Fl ⅜-16' Tapped
P-14183	P-16383	Main Body
P-14754	P-14754	1¼ Venturi
None Shown	P-15287	Set Screw

EQUIPMENT

J-4126 Manifold Fittings—P-16035 Cap Screws—P-7160 Control 50' Tube 56' Wire—P-4753 Gasket

MACK 1931 MODEL (2-BG 37)
3⅝" x 5" 6 Cyl.
A-15163 UT-3 Carburetor

Std Part No	Special Part	Used on Above Model Truck
P-3278	P-15278	Elbow Union
P-9707	P-14831	Tube Holder
P-9709	P-16378	Throttle Stop
P-10001	P-9705	Thro Lever
P-12512	P-12512	062" Meter Jet
P-12744	P-14850	Idle Tube 64 Feed, 62 Top Hole
P-12870	P-12870	No 56 H S Bleeder
P-14053	P-14053	No 65 Pump Meter Jet
P-14182	P-16302	Thro Valve Body with No 55-60 Idle Holes Fl ⅜-16' Tapped
P-14211	P-16140	Air Horn Lever with Stem
None Shown	P-9745	Taper Pin
None Shown	P-16251	Hex Hd Screw

RELAY TRUCK 1930 MODEL "15-A" (109913)
3⅜ x 4" 6 Cyl
A-14312 UT-2 Carburetor

Std Part No	Special Part	Used on Above Model Truck
P-5856	P-13848	Thro Lever and Screw
P-12512	P-12512	064" Meter Jet
P-12768	P-12768	033" By Pass Jet
P-14053	P-14053	No 60 Pump Meter Jet
P-14271	P-14271	Thro Valve Body with No 54-64 Idle Holes Fl ⅜-16' Tapped
P-14785	P-15209	Thro Lever Stem
P-14853	P-14853	31/32' Venturi

PARTS AND SETTINGS EXCEPTIONS MODEL UT-2-3 STANDARD CARBURETORS

(Trucks)

REO 1929-'30 "FC" AND "GA"

3⅜"x5" 6 Cyl.

J-4071 UT-2 Carburetor and Equipment

Std. Part No.	Special Part	Used on Above Model Truck
P-3278	P-3222	Elbow Union
P-5856	P-12115	Thro. Lever (Drill 13/64" on 1" and 1½" Centers)
P-11969	P-12604	Tube Holder
P-12512	P-12512	.064" Meter. Jet
P-12768	P-12768	.041" By Pass Jet
P-14271	P-14271	Thro. Valve Body with No. 55-65 Idle Holes, Flange Tapped ⅜-16
P-14853	P-14853	1 1/32" Venturi
P-14920	P-15539	Air Horn Lever and Stem

EQUIPMENT

J-4122 Manifold Fitting—P-4752 Gasket—P-7441 Studs—P-7428 Nuts

REO TRUCK 1929-'30 MODELS FA, FB, FD, FE, GB, GC AND GD

3⅜"x5" 6 Cyl.

J-4122 UT-2 Carburetor and Equipment

Std. Part No.	Special Part	Used on Above Model Truck
P-5856	P-8221	Blank Thro. Lever (Drill 13/64" on 1" Centers)
P-12512	P-12802	Adj. Meter. Jet
P-12768	P-12768	.041" By Pass Jet
P-14271	P-14271	Thro. Valve Body with No. 55-65 Idle Holes, Flange Tapped ⅜-16
P-14853	P-14853	1 1/32" Venturi

EQUIPMENT

J-4122 Fitting—P-7442 Studs—P-14683 Nuts—P-4752 Gasket—P-15953 Air Cleaner—P-15952 Flex. Tubing—P-3385 Cotter Pin—P-10019 Thro. Rod—P-8737 Ball Joint—P-10750 Nuts

STEWART 1930 MODEL "16X-A" AND "34-X" (B-19582)

3¼" x 4½" 6 Cyl.

A-14672 UT-2 Carburetor

Std. Part No.	Special Part	Used on Above Model Truck
P-3278	P-3279	Union Nipple
P-5856	P-7887	Thro. Lever and Screw
P-11969	P-15178	Tube Holder
P-12512	P-13091	Adj. Nozzle Attach. with .063" Restriction
P-12661	P-14045	Idle Tube
P-14053	P-14053	No. 65 Pump Met. Jet.
P-14271	P-15121	Thro. Valve Body with No. 56-66 Idle Holes, Flange Tapped ⅜-16
P-14785	P-15184	Thro. Stem
P-14920	P-15182	Air Horn Lever and Stem
P-14933	P-14933	No. 30 Main Disch. Jet
None Shown	P-10456	Stud Bolts
None Shown	P-15180	Loose Lever
None Shown	P-6123	Loose Lever Stop

NOTE: Pump Capacity, 22 CC per 10 Strokes in 1 Minute.

STEWART 1929-'30 (B-18856) MODELS 16-X, 28-X, 29-X AND 29-XW

3¼" x 4½" 6 Cyl.

A-14122 UT-2 Carburetor (Code No. 28-9)

Std. Part No.	Special Part	Used on Above Model Truck
P-3278	P-3221	Union Elbow
P-5856	P-7887	Thro. Lever and Screw
P-11969	P-12823	Tube Holder
P-12512	P-13091	Adj. Nozzle Attach. with .063" Restriction
P-12661	P-14045	Idle Tube, 68 Feed, 60 Top
P-14053	P-14053	No. 65 Pump Met. Jet
P-14271	P-15121	Thro. Valve Body with No. 56-66 Idle Holes, Flange Tapped ⅜-16
P-14785	P-15184	Thro. Stem
P-14920	P-14179	Air Horn Lever and Stem
P-14933	P-14933	No. 30 M. D. Jet
None Shown	P-10456	Stud Bolts
None Shown	P-12428	Loose Lever
None Shown	P-6123	Loose-Lever Stop

NOTE: Pump Capacity, 24 CC per 10 Strokes.

STEWART 1929-'30 "29-XS", "32-X" AND "35-X" (19281)

3⅜" x 4½" 6 Cyl.

A-14123 UT-3 Carburetor

Std. Part No.	Special Part	Used on Above Model Truck
P-3278	P-3221	Union Elbow
P-9707	P-15239	Tube Holder
P-10001	P-13498	Thro. Lever and Screw
P-12512	P-13091	Adj. Nozzle Attach. with .076" Restriction
P-12768	P-12768	.040" By Pass Jet
P-12870	P-12870	No. 56 H. S. Bleeder
P-14053	P-14053	No. 66 Pump Met. Jet
P-14182	P-14182	Thro. Valve Body with No. 56-64 Idle Holes, Flange Tapped ⅜-16
P-14211	P-15240	Air Horn Lever and Stem
P-14857	P-15193	Thro. Lever Stem
None Shown	P-15049	Stud Bolts

STEWART 1930 MODEL "29-XS" AND "32-X" (20946)

3⅜" x 4½" 6 Cyl.

A-14673 UT-3 Carburetor

Std. Part No.	Special Part	Used on Above Model Truck
P-3278	P-3221	Union Elbow
P-9707	P-15239	Tube Holder
P-10001	P-13498	Thro. Lever and Screw
P-12512	P-13091	Adj. Nozzle Attach. with .076" Restriction
P-12768	P-12768	.040" By Pass Jet
P-12870	P-12870	No. 56 H. S. Bleeder
P-14053	P-14053	No. 66 Pump Met. Jet
P-14182	P-14182	Thro. Valve Body with No. 56-64 Idle Holes, Flange Tapped ⅜-16
P-14211	P-15240	Air Horn Lever and Stem
P-14857	P-15193	Thro. Stem
None Shown	P-15563	Stud Bolts

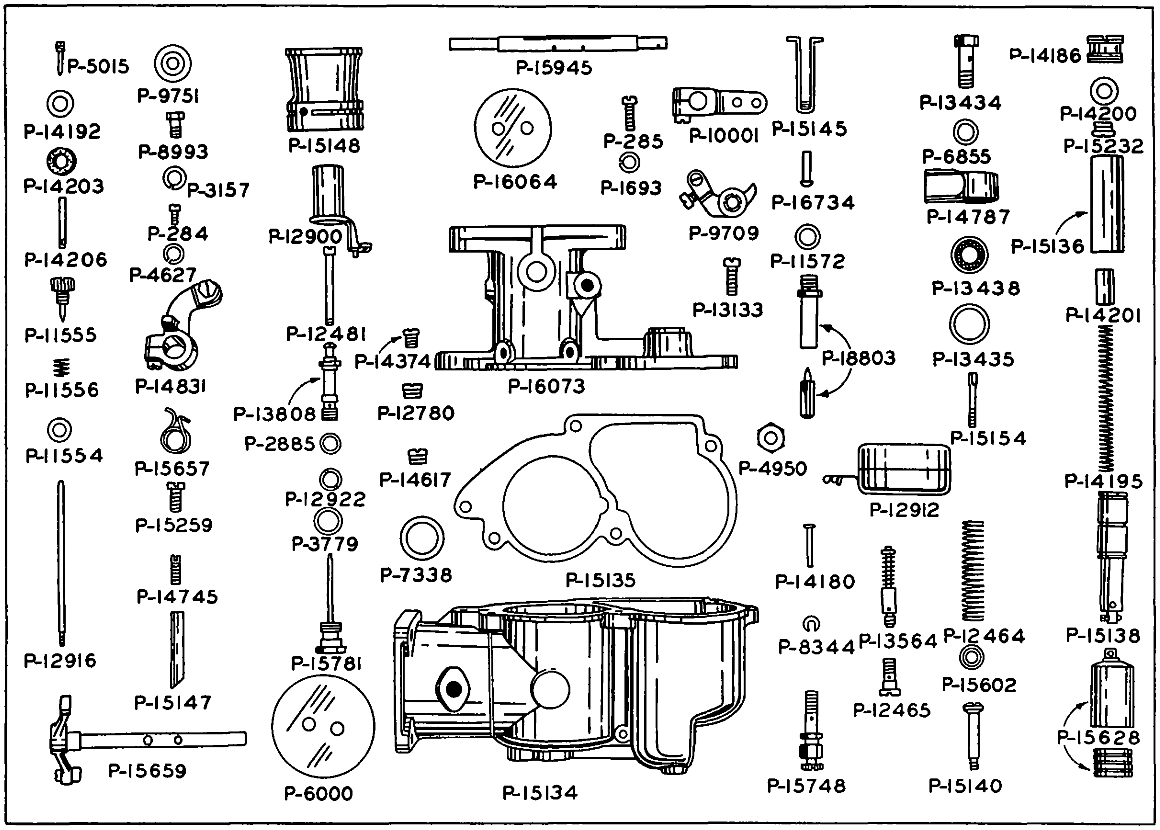
STEWART 1931 MODEL "38-6" (23160)

4⅜" x 5⅛" 6 Cyl.

A-13923 UT-3 Carburetor

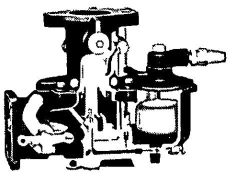
Std. Part No.	Special Part	Used on Above Model Truck
P-3278	P-5026	Union Elbow
P-9707	P-15239	Tube Holder
P-10001	P-13498	Thro. Lever and Screw
P-12512	P-13091	Adj. Nozzle Attach. with .086" Restriction
P-12768	P-12768	.040" By Pass Jet
P-12870	P-12870	No. 56 H. S. Bleeder
P-13432	P-14787	Strainer Body
P-14182	P-14182	Thro. Valve Body with No. 54-66 Idle Holes, Flange Tapped ⅜-16
P-14186	P-16258	Econ. Pist. Sleeve Plug
P-14211	P-15240	Air Horn Lever and Stem
P-14754	P-14754	1 3/16" Venturi
P-14857	P-15193	Thro. Lever Stem

Printed in United States of America



UT-4 N . A-13734
(Obsolete)
1¾" CARB SAE

UT-5 N . A-13735
(Obsolete)
2" CARB SAE



Notes and References.
Parts UT-4 illustrated, corresponding UT-5 parts shown in listing below

‡Indicates Sub-assembly part

PARTS LISTS STROMBERG MODELS "UT-4" AND "UT-5" STANDARD CARBURETOR

UT-4 Part No	UT-5 Part No	Name
P-284	P-284	Vac Econ Piston Slve Plug Set Sc
P-284	P-284	Small Venturi Tube Set Screw
P-285	P-285	Throttle Valve Screws
P-1693	P-1693	Throttle Valve Screws Washers
P-1693	P-1693	Choke Valve Screws Washers
P-2885	P-2885	Main Disch Jet Gasket (Upper)
P-3157	P-3157	Main Body Att Sc Lock Washers
P-3157	P-3157	Large Vent Tube Set Scr Washer
P-3223	P-3223	Gasoline Union
‡P-3219	‡P-3219	Union
‡P-3218	‡P-3218	Union Nut
P-3779	P-3779	Pump Discharge Nozzle Gasket
P-4627	P-4627	Sm Venturi Tube Set Screw Washer
P-4950	P-4950	Vac Ec Pstn Slv Plg Set Sc Lk Nut
P-5015	P-5015	Throttle Stem Collar Set Pin Screw
P-6000	P-6000	Choke Valve
P-6855	P-6855	Adjustable Metering Jet Gasket
P-6855	P-6855	By Pass Jet Gasket
P-7338	P-7338	Main Disch Jet Gasket (Lower)
P-8344	P-8344	Vacuum Econ Piston Link Washer
P-8993	P-8993	Large Venturi Tbe Set Screw
P-9709	P 9709	Throttle Stop with Screws
‡P-9647	‡P-9647	Throttle Stop Clamp Screw
‡P-9742	‡P-9742	Throttle Stop Set Screw
P-9751	P-9751	Throttle Stem Collar
P-10001	P-10001	Throttle Lever with Screw
‡P-15817	‡P-15817	Throttle Lever Clamp Screw
P-11554	P-11554	Idle Needle Valve Washer
P-11555	P-11555	Idle Needle Valve
P-11556	P-11556	Idle Needle Valve Spring
P-11572	P-11572	Float Needle Valve Seat Gasket
P-11572	P-11572	Strainer Body Bolt Gasket
P-12464	P-12464	Pump Piston Spring
*P-12465	P-12465	By-Pass Jet (VAR)
*P-12481	P-12481	High Speed Bleeder (VAR.)
P-12780	P-12780	Idle Discharge Hole Plug
P-12780	P-12780	Idle Discharge Channel Plug
P-12900	P-12900	Small Venturi Tube
P-12912	P-12912	Float with Lever
P-12916	P-12916	Idle Tube
P-12922	P-12922	Main Discharge Jet Nut
P-13133	P-13133	Main Body Attaching Screws
P-13434	P-13434	Strainer Body Bolt
P-13435	P-13453	Strainer Body Gasket
P-13438	P-13438	Strainer
P-13564	P-13564	Economizer Needle Valve (Comp)
‡P-10173	‡P-10173	Economizer Needle Valve Washer
‡P-8344	‡P-8344	Econ Needle Valve Open Washer
‡P-13551	‡P-13551	Economizer Needle Valve Spring
*P-13808	P-13808	Main Discharge Jet (VAR.)
P-14180	P-14180	Float Fulcrum Pin
P-14186	P-14186	Vacuum Econ Piston Sleeve Plug
P-14192	P-14192	Throttle Stem Packing Washers
P-14195	P-14195	Vacuum Econ Piston Spring
P-14200	P-14200	Vac Econ Piston Gasket (on top)
P-14201	P-14201	Vacuum Econ Piston Spring Cup
P-14203	P-14203	Throttle Lever Stem Packings
P-14206	P-14206	Vacuum Econ Guides
P-14374	P-14374	Idle Discharge Plug
P-14374	P-14374	Economizer Gas Channel Plug
P-14617	P-14617	Main Gas Channel Plug
P-14617	P-14617	Pump Gas Channel Plug
P-14745	P-14745	Vent Tube Set Screw
P-14787	P-14787	Strainer Body
P-14831	P-14831	Choke Tube Hldr with Screw (Com)
‡P-9742	‡P-9742	Choke Tube Holder Clamp Screw
‡P-14881	‡P-14881	Choke Tube Clamp Screw
P-15134	P-15134	Main Body
P-15135	P-15135	Main Body Gasket
P-15136	P-15236	Vacuum Econ Piston Sleeve
P-15138	P-15138	Vacuum Econ Piston with Link
P-15140	P-15140	Pump Piston Valve
P-15145	P-15145	Float Lever Support and Bushing
P-15147	P-15147	Vent Tube
*P-15148	P-15192	Large Venturi Tube (VAR)
P-15154	P-15154	Vacuum Econ Push Rod
P-15232	P-15232	Vac Economizer Reducer Plug
P-15259	P-15259	Choke Valve Screws
P-15602	P-15602	Pump Piston Spring Cup Washer
P-15628	P-15628	Pump Piston and Sleeve
P-15657	P-15657	Choke Lever Return Spring
P-15659	P-15659	Choke Lever with Stem (Comp)
‡P-2229	‡P-2229	Choke Wire Clamp Screw
‡P-46	‡P-46	Choke Lever Clamp Screw
P-15748	P-15748	Adj Metering Jet (Comp)
‡P-1503	‡P-1503	Adj Met Jet Valve Packing
‡P-12803	‡P-12803	Adj Met Jet Valve Packing Nut
*P-15781	P-15781	Pump Discharge Nozzle (VAR)
P-15945	P-15946	Throttle Lever Stem
*P-16064	P-16065	Throttle Valve (VAR)
*P-16073	P-16074	Throttle Valve Body (VAR)
‡P-14997	‡P-14997	Throttle Stem Bushings
P-16734	P-16734	Float Lever Support Rivets
P-18803	P 18803	Float Needle Valve and Seat

J-4199-G UT-4 Complete Gasket Set
J-4199-G UT-5 Complete Gasket Set

*NOTE On parts marked (VAR) size must be specified when ordering

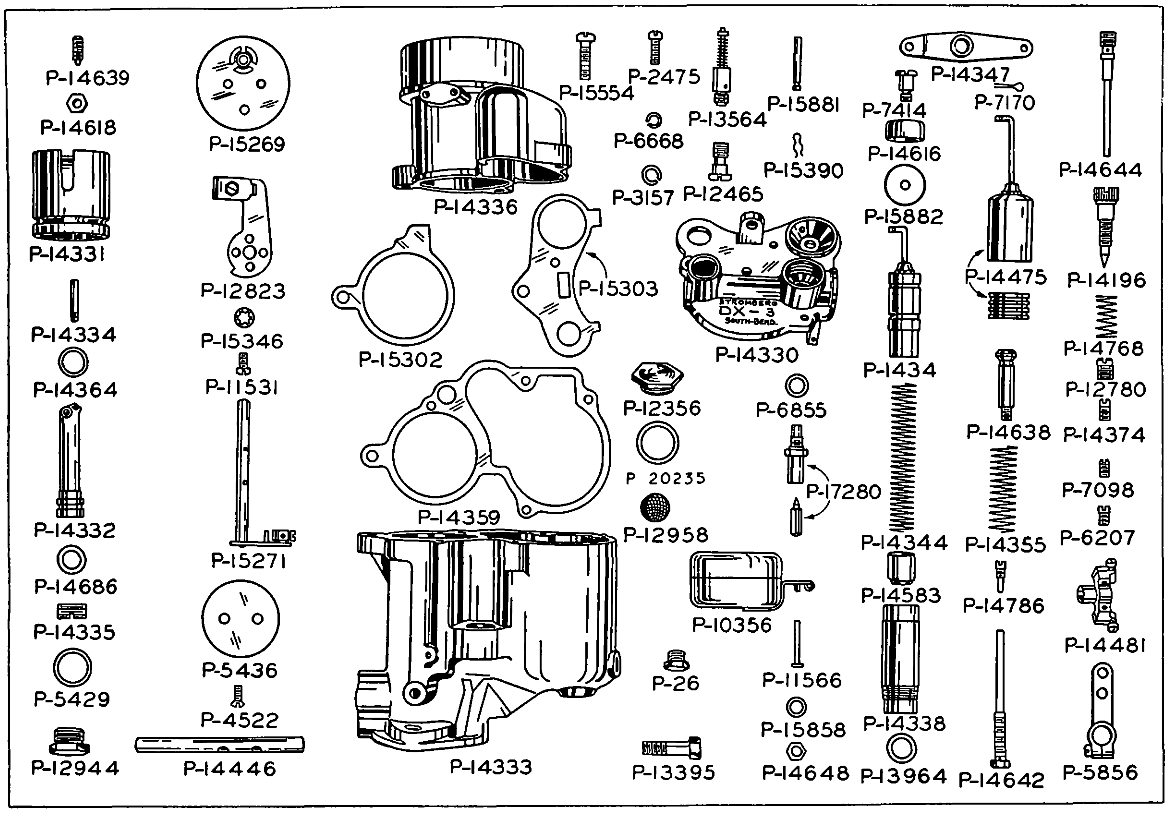
STANDARD SPECIFICATIONS

	A-13734, UT-4 Carburetor
P-12465	.055″ By-Pass Jet
P-12481	No. 54 High Speed Bleeder
P-12916	Idle Tube, No. 66 Feed, No. 52 Top Holes
P-13808	No. 28-4 Main Discharge Jet
P-15148	1⅜″ Venturi
P-15781	No. 70 Pump Discharge Nozzle
P-16064	Throttle Valve, 20°
P-16073	Throttle Valve Body, with No. 55-66 Idle Holes, Flange Tapped $\frac{7}{16}$-14

	A-13735, UT-5 Carburetor
P-12465	.070″ By-Pass Jet
P-12481	No. 70 High Speed Bleeder
P-12916	Idle Tube, No. 66 Feed, No. 52 Top Holes
P-13808	No. 28-4 Main Discharge Jet
P-15192	1½″ Venturi
P-15781	No. 70 Pump Discharge Nozzle
P-16065	Throttle Valve, 20°
P-16074	Throttle Valve Body, with No. 55-66 Idle Holes, Flange Tapped $\frac{7}{16}$-14

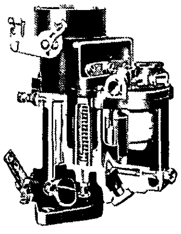
STANDARD SETTINGS FOR UT-4 AND UT-5 CARBURETORS

Throttle Valve Location: Lower lip of throttle valve to be flush plus or minus .004″ with top of lower idle hole.
Pump Capacity: 32 CC per 10 Strokes.



DX-3 N . A-14173
(Obsolete)
1½" CARB SAE

DX-3
N . A-14273
(Obsolete)
SPEC 1⅜" CARB
1½" SAE FLANGE



Notes and References

Parts DX-3 1½" illustrated corresponding DX-3 1⅜ Parts shown in listing below

Car models having these carburetors with parts exceptions therefor are shown on back of this page

†These parts not illustrated

‡Indicates Sub assembly part

PARTS LISTS STROMBERG MODEL "DX-3" STANDARD CARBURETOR

DX 3 1½" Part No	DX 3 SP 1⅜" Part No	Name
P-26	P-26	Gas Conn Channel Plug
P-2475	P-2475	Float Chamber Cover Screws
P-3157	P-3157	Air Horn Attach Screw L-Washer
P-3222	P-3222	Gas Elbow Union
‡P-3221	‡P-3221	Gas Union Elbow
‡P-3220	‡P-3220	Gas Union Nut
P-4522	P-4522	Throttle Valve Screws
P-4522	P-4522	Choke Valve Screws
P-5429	P-5429	Main Discharge Jet Plug Gasket
*P-5436	P-14428	Throttle Valve (VAR)
P-5856	P-5856	Throttle Lever with Screw
‡P-3199	‡P-3199	Throttle Lever Clamp Screw
P-6207	P 6207	Idle Feed Channel Plug
P-6207	P-6207	Main Discharge Jet Channel Plug
P-6668	P-6668	Float Ch ber Cov Sc L Washer
P-6855	P-6855	Main Metering Jet Gasket
P 6855	P-6855	Float Needle Valve Seat Gasket
P 6855	P-6855	By Pass Metering Jet Gasket
P-7098	P-7098	Idle Channel Plug
P-7170	P-7170	Pump Piston Sleeve Cotter Pin
P-7170	P-7170	Vacuum Piston Cotter Pin
P-7414	P-7414	Pump Lever Fulcrum Screw
P-10356	P-10356	Float with Lever
P-11531	P-11531	Choke Tube Hldr Att Screws
P-11566	P-11566	Float Fulcrum Pin
P-12356	P-12356	Strainer Body Plug
*P-12465	P-12465	By-Pass Jet (VAR)
P-12780	P-12780	Idle Discharge Plugs
P-12780	P-12780	Pump Discharge Nozzle Plug
P-12823	P-12823	Chke Con l Tube Hldr with Sc (com)
‡P 11561	‡P-11561	Choke Control Tube Clamp
‡P 12868	‡P-12868	Choke Con l Tube Clamp Screw
‡P-8806	‡P 8806	Choke Con'l Tube Clamp Sc Nut
P-12944	P-12944	Main Discharge Jet Plug
P-12958	P-12958	Strainer
*P-13395	P-13395	Main Metering Jet (VAR)
P-13564	P-13564	Economizer Needle Valve (Complete)
‡P-10173	‡P-10173	Economizer Needle Valve Washer
‡P-8344	‡P-8344	Econ Needle Valve Open Washer
‡P-13551	‡P-13551	Economizer Needle Valve Spring
P-13964	P-13964	Vacuum Piston Sleeve Gasket
P-14196	P-14196	Idling Needle Valve
P 14330	P-14330	Float Chamber Cover

DX 3 1½" Part No	DX 3 SP 1⅜ Part No	Name
*P-14331	P-14429	Large Venturi Tube (VAR)
P-14332	P 14332	Main Discharge Jet (Complete)
*P 14333	P-14423	Main Body (VAR.)
*P 14334	P-14334	High Speed Air Bleeder (VAR)
P-14335	P-14335	Main Discharge Jet Retainer Plug
P 14336	P-14336	Air Horn
P-14338	P-14338	Vacuum Piston Sleeve
P-14341	P 14341	Vacuum Piston and Link
P-14344	P 14344	Vacuum Piston Spring
P 14347	P-14347	Pump Lever
P-14355	P 14355	Pump Piston Spring
P 14359	P 14359	Main Body Gasket
P 14364	P 14364	Main Discharge Jet Gasket
P 14374	P 14374	Pump Gas Channel Plug
P 14446	P 14446	Throttle Lever Stem
P 14475	P 14475	Pump Piston and Sleeve
P-14481	P-14481	Throttle Stop with Screw
P-2924	‡P 2924	Throttle Stop Set Screw
P-15301	‡P-15301	Throttle Stop Set Screw Spring
P 14583	P-14583	Vacuum Piston Spring Cup
P 14616	P-14616	Vacuum Piston Sleeve Dust Cap
P-14618	P-14618	Large Venturi Set Screw Nut
P 14638	P 14638	Pump Piston Valve
P 14639	P-14639	Large Venturi Set Screw
P 14642	P 14642	Pump Adj Screw
P 14644	P 14644	Idle Tube with Holder
P 14648	P-14648	Pump Adj Screw Stop Lock Nut
P 14686	P-14686	Main Dischg Jet Retainer Plug Wash
P 14768	P-14768	Idling Needle Valve Spring
*P 14786	P 14622	Pump Discharge Nozzle (VAR)
P-15269	P 15269	Choke Valve (Complete)
P 15271	P 15271	Choke Lever with Stem
P-13046	‡P-13046	Choke Wire Clamp Screw
[illegible]		Air Horn with Valve (Complete)
P-15302	P-15302	Float Chamber Cover Gasket
P 15303	P-15303	Air Horn Gasket
P-15390	P-15390	Econ Push Rod Cotter Pin
P-15554	P-15554	Air Horn Attaching Screws
P 15858	P-15858	Pump Adj Collar
P-15881	P-15881	Economizer Push Rod
P 15882	P 15882	Vacuum Piston Sleeve Felt Washer
P 17280	P-17280	Float Needle Valve and Seat
P 20235	P-20235	Strainer Body Plug Gasket

J 4202 G DX 3 Complete Gasket Set

*NOTE On parts marked (VAR) size must be specified when ordering

STANDARD SPECIFICATIONS

A-14173 DX-3 Carburetor

P-5436	Throttle Valve (20°)
P-12465	040 By Pass Jet
P-13395	062′ Meter Jet
P-14331	1$\frac{3}{16}$″ Venturi
P-14332	Main Disch Jet
P-14333	Main Body with No 53-65 Idle Holes
P-14334	No 65 H S Bleeder
P-14644	Idle Tube, No 70 Feed Hole
P-14786	No 64 Pump Disch Nozzle

A-14273 DX-3 Special 1⅜″ Carburetor

P-12465	040′ By Pass Jet
P-13395	062 Meter Jet
P-14332	Main Disch Jet
P-14334	No 65 H S Bleeder
P-14423	Main Body with No 55-68 Idle Holes
P-14428	Throttle Valve (20°)
P-14429	1$\frac{1}{16}$″ Venturi
P-14622	No 64 Pump Disch Nozzle
P-14644	Idle Tube, No 70 Feed Hole

STANDARD SETTINGS FOR DX-3 CARBURETORS

Throttle Valve Location Upper lip of throttle valve to be flush plus or minus 004 with lower part of upper idle hole

Pump Capacity 18 CC per 10 Strokes

Syringe Pump Travel $\frac{7}{16}$

SPECIFICATIONS OF STANDARD EQUIPPED PASSENGER CARS
PARTS AND SETTINGS EXCEPTIONS MODELS DX-3 STANDARD CARBURETORS

CHRYSLER "W" or "77" 1929-30-31 (303680)

3⅜″ x 4¾″—6 Cyl.

No A- 13373—DX-3 Carburetor (Code No 4-16)

Std Part No	Special Part	Used on Above Model Car
P-5856	P-14585	Throttle Lever
P-14481	P-7041	Throttle Stop

NOTE Throttle Valve Location flush plus 000 minus 004

CHRYSLER "V" or "70" 1929-30-31 (39682)

3⅛″ x 4¼″—6 Cyl

No. A-13533—DX-3 Special 1⅜″ Carburetor

Std Part No	Special Part	Used on Above Model Car
P-5856	P-14585	Throttle Lever
P-14481	P-7041	Throttle Stop

CHRYSLER "CD ' 1930-31 (31318)

3″ x 4¼″—8 Cyl.

No. A-14333—DX-3 Special 1⅜″ Carburetor

Std Part No	Special Part	Used on Above Model Car
P-12465	P-12465	By-Pass Jet 044′
P-13395	P-13395	Metering Jet 065″
P-14423	P-14423	Main Body with No 53-65 Idle Holes
P-14428	P-14428	Throttle Valve 21°
P-14446	P-14902	Throttle Lever Stem
P-14481	P-7107	Throttle Stop
None Shown	P-5015	Throttle Stop Set Screw

NOTE Pump Travel $\frac{19}{32}$″
NOTE Throttle Valve Location flush plus or minus 002

CHRYSLER "CDX" 1931 (320081)

3″ x 4¼″—8 Cyl.

No A-14823—DX-3 Special 1⅜″ Carburetor

Std Part No	Special Part	Used on Above Model Car
P-12465	P-12465	By-Pass Jet 041″
P-13395	P-13395	Metering Jet 061′
P-14332	P-16582	Main Discharge Jet
P-14334	P-14334	High Speed Bleeder No 70
P-14423	P-14423	Main Body with No 53-68 Idle Holes
P-14428	P-14428	Throttle Valve 21°
P-14446	P-14902	Throttle Lever Stem
P-14481	P-7107	Throttle Stop
P-14644	P-15004	Idle Tube No 68 Feed Hole
None Shown	P-5015	Throttle Stop Set Screw

NOTE Pump Adj Screw, open 3½ turns
Pump Capacity 16 to 20 CC per 10 Strokes
Throttle Valve Location Flush plus or minus 002

(DE SOTO) CHRYSLER CORPORATION 1930 "CF" (313179)

2⅞′ x4″—8 Cylinder

A-14033 DX-3 Special 1⅜″ Carburetor (Code No. 16-4)

Std Part No	Special Part	Used on Above Model Car
P-12465	P-12465	032 By-Pass Jet
P-13041	P-15554	Main Body Attach Screw
P-13395	P-13395	052′ Metering Jet
P-14423	P-14423	Main Body with 60-65 Idle Holes
P-14428	P-14428	Special Throttle Valve, 21°
P-14429	P-14429	1$\frac{1}{16}$′ Venturi Tube
P-14446	P-14902	Throttle Stem
P-14475	P-15291	Piston and Sleeve Assembly
P-14481	P-7107	Throttle Stop
None Shown	P-5015	Set Screw

NOTE Throttle Valve Location flush plus or minus 002

DE SOTO) CHRYSLER CORPORATION 1931 "CF" STAR (318370)

2⅞″x4¼′—8 Cylinder

A-14993 DX-3 Special 1⅜″ Carburetor

Std Part No.	Special Part	Used on Above Model Car
P-12465	P-12465	036′ By-Pass Jet
P-13041	P-15554	Main Body Attach Screw
P-13395	P-13395	056 Metering Jet
P-14423	P-14423	Main Body with 60-65 Idle Holes
P-14428	P-14428	Special Throttle Valve 21°
P-14429	P-14429	1⅛ Venturi Tube
P-14446	P-14902	Throttle Stem
P-14475	P-15291	Piston and Sleeve Assembly
P-14481	P-7107	Throttle Stop
None Shown	P-5015	Set Screw

NOTE Throttle Valve Location flush plus or minus 002

DODGE "DC" 1930 (309608)

2⅞″ x 4¼″—8 Cyl.

No A-13833—DX-3 Special 1⅞″ Carburetor (Code No 3-11)

Std Part No	Special Part	Used on Above Model Car
P-12465	P-12465	By-Pass Jet 036″
P-13395	P-13395	Metering Jet 056″
P-14423	P-14423	Main Body with No 60-65 Idle Holes
P-14428	P-14428	Throttle Valve 21°
P-14429	P-14429	Venturi Tube 1⅛″
P-14446	P-14902	Throttle Lever Stem
P-14475	P-15291	Pump Piston and Sleeve Assembly
P-14481	P-7107	Throttle Stop
None Shown	P-5015	Throttle Stop Set Screw

NOTE Throttle Valve Location Flush plus or minus 002

DODGE "DG" 1931 (322770)

3″ x 4¼′—8 Cyl.

No A-14903—DX-3 Special 1⅜″ Carburetor (Code No 3-14)

Std Part No	Special Part	Used on Above Model Car
P 12465	P-12465	By-Pass Jet 041″
P-13395	P-13395	Metering Jet 061″
P-14334	P-14334	High Speed Bleeder No 70
P-14423	P 14423	Main Body with No 53-68 Idle Holes
P-14428	P-14428	Throttle Valve 21°
P-14446	P-14902	Throttle Lever Stem
P-14481	P-7107	Throttle Stop
P-14644	P-15004	Idle Tube No 68 Feed Hole
None Shown	P-5015	Throttle Stop Set Screw

NOTE Pump Adj Screw open 3½ turns
NOTE Pump Capacity 16 to 20 CC per 10 Strokes
NOTE Throttle Valve Location flush plus or minus 002

SPECIFICATIONS OF STANDARD EQUIPPED TRUCKS

PARTS AND SETTINGS EXCEPTIONS MODELS DX-3 AND DX-3SP (1⅜) STANDARD CARBURETORS

GENERAL MOTORS TRUCK 1930-31 (051911)

MODELS "T-60", "T-82", "T-90"

3¾ x5"—6 Cylinder Engine
Old Style

A-14063 DX-3 Carburetor (Code No 23-23)

Std Part No.	Special Part No	Used on Above Model Trucks
P-5422	P-15259	Throttle Valve Screws
[illegible] P-14481	P-15615	Throttle Lever and Stop (Complete)
P-7414	P-15433	Pump Lever Fulcrum Screw
P-12465	P-12465	036 By-Pass Jet
P-13272	P-15605	Air Horn (Complete)
P-13395	P-13395	059 Main Metering Jet
P-14330	P-15607	Float Chamber Cover
P-14333	P-14333	Main Body No 53-63 Idle Holes
P-14341	P-15662	Econ Piston and Link
P-14344	P-15603	Econ Piston Helical Spring
P-14446	P-15612	Throttle Lever Stem
P-14336	P-15604	Air Horn (Casting)
P-14644	P-15004	Idle Tube, No 68 Feed Hole
P-15269	P-14356	Choke Valve
P-15271	P-15006	Choke Lever
	P-15007	Choke Stem
None Shown	P-1693	Throttle Valve Screw Lockwasher
None Shown	P-9745	Taper Pin
None Shown	P-14990	Air Horn Lever Return Spring
None Shown	P-15002	Spring Clip
None Shown	P-15434	Fulcrum Screw (Fill Hd Lock Screw)
None Shown	P-15606	Fill Hd Screw
None Shown	P-12999	Gasket

NOTE Pump Capacity 9 to 14 CC per 10 Strokes

NOTE New Style Has Specifications Same as A-17673

GENERAL MOTORS TRUCK 1930 31 (052984)

MODELS T-60, T-82, T 90

3¾ x5′—6 Cylinder (Buick Eng)

A-17673 DX 3 Carburetor (Code No 23-15)

Std Part No	Special Part	Used on Above Model Truck
P-4522	P-15259	Throttle Valve Screws
P-5856 P-14481	P 15615	Throttle Stop and Lever
P-12465	P-12465	036 By-Pass Jet
P-12823	P-19845	Choke Tube Holder
P-13272	P-19912	Air Horn (Complete)
P-13395	P-13395	059 Metering Jet
P-14330	P-15607	Float Chamber Cover
P-14333	P 14333	Main Body with No 53 63 Idle Holes
P-14336	P-19914	Air Horn
P-14341	P-15662	Econ Piston and Link
P-14344	P-15603	Helical Spring
P-14446	P-15612	Throttle Stem
P-14644	P-15004	Idle Tube with Holder No 68 Feed Hole
P-14786	P-14786	No 70 Pump Discharge Nozzle
P-15272	P-19912	Air Horn and Valve (Complete)
P-17414	P-15433	Fulcrum Screw
None Shown	P-15434	Fill Head Mach Screw
None Shown	P-9745	Taper Pin
None Shown	P-1693	Lock Washer

NOTE Pump Capacity 9 to 14 CC per 10 Strokes

GENERAL MOTORS TRUCK 1931 (052230)

Buick '331' Eng (Amer LaFrance Fire Eng)
3¼" x 5 —6 Cylinder

A-16043 DX-3 Carburetor (Code No 23-22)

Std Part No	Special Part No	Used on Above Model Truck
P-4522	P-15259	Throttle Valve Screws
P-5439	P-20235	Float Strainer Plug Gasket
P-5856 P-14481	P-15615	Throttle Lever and Stop
P-7414	P-15433	Pump Lever Fulcrum Screw
P-12465	P-12465	036 By-Pass Jet
P-13395	P-13395	082 Main Metering Jet
P-14330	P-15607	Float Chamber Cover
P-14331	P-14331	1$\frac{5}{16}$ Venturi
P-14333	P-15613	Main Body No 53 63 Idle Holes
P-14336	P-15604	Air Horn (Casting)
P-14341	P-15662	Econ Piston and Link
P-14344	P-15603	Econ Piston Helical Spring
P-14446	P-15612	Throttle Lever Stem
P-14644	P-15004	Idle Tube No 68 Feed Hole
P-14786	P-14786	No 70 Pump Discharge Nozzle
P-15269	P-14356	Choke Valve
P-15271	P-15006	Choke Lever
	P-15007	Choke Stem
P-15272	P-15605	Air Horn (Complete)
None Shown	P-15434	Fulcrum Screw (Fill Hd Lock Screw)
None Shown	P-9745	Taper Pin
None Shown	P-1693	Throttle Valve Screw Lockwasher
None Shown	P-15002	Spring Clip
None Shown	P-15606	Fill Hd Screw
None Shown	P-12999	Gasket
None Shown	P-14990	Air Horn Lever Return Spring

NOTE Pump Capacity, 9 to 14 CC per 10 Strokes
NOTE Throttle Valve Location Flush plus or minus 002

GENERAL MOTORS TRUCK 1932 (052446)

4⅛"x5 —6 Cylinder Engine

A-16883 DX-3 Carburetor (Code No 23-19)

Std Part No	Special Part No	Used on Above Model Truck
P-4522	P-15259	Throttle Valve Screws
P-5439	P-20235	Float Strainer Plug Gasket
P-5856 P-14481	P-15615	Throttle Lever and Stop (Complete)
P-7414	P-15433	Pump Lever Fulcrum Screw
P-12465	P-12465	056 By-Pass Jet
P-12606	P-6668	Lockwasher
P-12823	P-19845	Choke Tube Holder
P-13395	P-13395	072 Main Metering Jet
P-14330	P-15607	Float Chamber Cover
P-14331	P-14431	1⅜ Venturi
P-14333	P-14333	Main Body, No 53-63 Idle Holes
P-14336	P-19914	Air Horn (Casting)
P-14341	P-15662	Economizer Piston and Link
P-14344	P-15603	Economizer Piston Helical Spring
P-14446	P-15612	Throttle Lever Stem
P-14644	P-15004	Idle Tube
P-14786	P-14622	No 70 Pump Discharge Nozzle
P-15272	P-19912	Air Horn (Complete)
None Shown	P-15434	Fulcrum Screw Fill Head Lock Screw
None Shown	P-9745	Taper Pin
None Shown	P-1693	Throttle Valve Screw Lockwasher

NOTE Pump Capacity 9 to 14 CC per 10 Strokes

NOTE Pump Travel, $\frac{5}{16}$

GENERAL MOTORS TRUCK 1934 (052983)

4⅛"x5"—6 Cylinder "400" Eng

A-17663 DX-3 Carburetor (Code No 23-16)

Std Part No	Special Part	Used on Above Model Truck
P-4522	P-15259	Throttle Valve Screws
P-5856 P-14481	P-15615	Throttle Stop and Lever
P-12465	P-12465	056 By-Pass Jet
P-12823	P-19845	Choke Tube Holder
P-13395	P-13395	072 Metering Jet
P-14330	P-15607	Float Chamber Cover
P-14331	P-14331	1⅜ Venturi Tube
P-14333	P-14333	Main Body with No 53-63 Idle Holes
P-14336	P-19914	Air Horn
P-14341	P-15662	Econ Piston and Link
P-14344	P-15603	Helical Spring
P-14446	P-15612	Throttle Stem
P-14644	P-15004	Idle Tube with Holder No 68 Feed Hole
P-14786	P-14786	No 70 Pump Discharge Nozzle
P-15272	P-19912	Air Horn and Valve (Complete)
P-17414	P-15433	Fulcrum Screw
None Shown	P-15434	Fill Head Mach Screw
None Shown	P 9745	Taper Pin
None Shown	P-1693	Lock Washer

NOTE Pump Travel $\frac{5}{16}$'
NOTE Pump Capacity 9 to 14 CC per 10 Strokes

REPLACEMENT EQUIPMENTS

PARTS AND SETTINGS EXCEPTIONS MODELS DX-3 AND DX-3SP ($1\frac{3}{8}$″) STANDARD CARBURETORS

(Passenger Cars and Trucks)

PONTIAC 1932 MODEL "V-8"
OAKLAND 1930 MODEL "101"
$3\frac{7}{16}$″ x$3\frac{3}{8}$″ 8 Cyl.

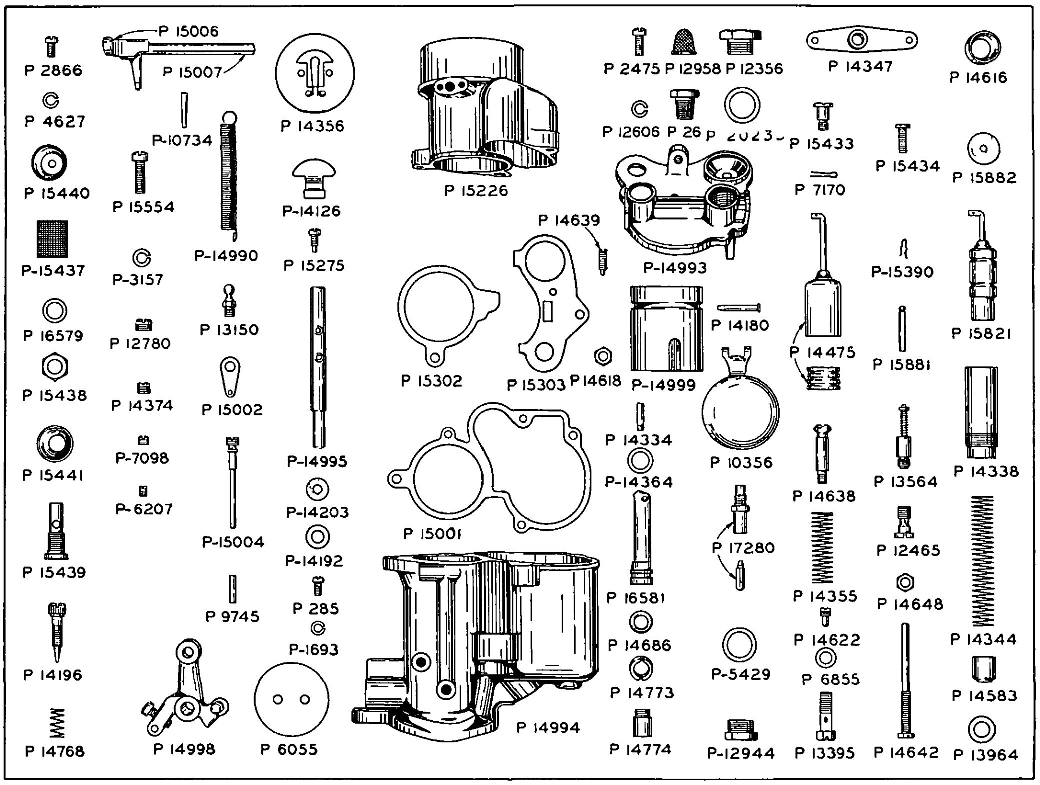
J-4078-A DX-3 Carburetor and Equipment

Std Part No	Special Part Used on Above Model Car	
P-3222	P-3761	Union Nipple
P-5856	P-15795	Thro Lever and Screw
P-12465	P-12465	047′ By Pass Jet
P-13395	P-12802	Adj Nozzle Attach
P-14331	P-14331	$1\frac{5}{32}$″ Venturi
P-14333	P-14333	Main Body with No 52-65 Idle Holes
P-14446	P-15835	Thro Stem
None Shown	P-15793	Thro Lever and Wire Conn

NOTE Exposure of upper idle hole when throttle valve is fully closed to be 040 plus or minus 004 or No 64 drill go gauge, No 57 drill no go gauge

EQUIPMENT

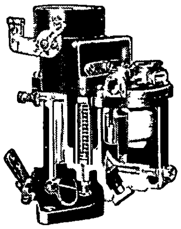
J-4078 Fittings—P-5556 Studs—P-5558 Nuts—P-4753 Gasket—P-14086 Gas Line—P-5762 Ball Joint—P-4 Cotter Pins—P-6171 Wire Connector —P-15349 Taper Pins—P-8108 Choke Tubing 36″ Long—P-2245 Choke Wire 38′ Long—P-15798 Thro Rod (Heat Control)—P-15799 Thro Rod—P15801 Gasket



DX-4

N . A-14064

1¼" CARB SAE



Notes and References.
Truck models having this carburetor with parts exceptions therefor are shown on back of this page

†These parts not illustrated

‡Indicates Sub assembly part

PARTS LIST STROMBERG MODEL "DX-4" CARBURETOR

Part No	Name	
P-26	Gas Conn Plug	
P-285	Throttle Valve Screw	
P-1693	Choke Valve Screw Lockwasher	
P-1693	Throttle Valve Screw Lockwasher	
P-2475	Float Chamber Cover Screw	
P-2866	Float Chamber Vent Screw	
'P-3157	Air Horn Att Screw Lockwasher	
P-4627	Float Chamber Vent Screen Screw Lockwasher	
P-5429	Main Discharge Jet Plug Gasket	
*P-6055	Throttle Valve	(VAR)
P-6207	Main Disch Jet Screw and Idle Feed Channel Plug	
P-6668	Float Chamber Cover Screw Lockwasher	
P-6855	By-Pass Jet Fl N V Seat and Main Met Gasket	
P-7098	Idle Channel Plug	
P-7170	Vacuum Piston Link and Pump Piston Link Cotter Pin	
P-9745	Throttle Lever Pin	
P-10356	Float	
P-10734	Choke Lever Pin	
P-12356	Strainer Body Plug	
*P-12465	By-Pass Jet	(VAR)
P-12780	Idle Disch Channel Plug	
P-12944	Main Disch Jet Plug	
P-12958	Strainer	
P-13150	Ball Joint Connector	
*P-13395	Main Metering Jet	(VAR)
P-13564	Econ Needle Valve	
P-13964	Vacuum Piston Sleeve Gasket	
P-14126	Choke Valve Plate	
P-14180	Float Lever Fulcrum Pin	
P-14192	Throttle Stem Washer	
P-14196	Idle Needle Valve	
P-14203	Throttle Stem Packing	
*P-14334	High Speed Bleeder Jet	(VAR)
P-14338	Vacuum Piston Sleeve	
P-14344	Vacuum Piston Spring	
P-14346	Main Disch Jet Lead Plug	
P-14347	Pump Lever	
P-14355	Pump Piston Spring	
P-14356	Choke Valve	
P-14364	Main Discharge Jet Gasket	
P-14374	Pump Gas Channel and Pump Dis Nozzle Plug	
P-14475	Pump Piston and Sleeve	
P-14583	Vacuum Piston Spring Cup	
P-14616	Vacuum Piston Sleeve Dust Cap	
P-14618	Venturi Set Screw Nut	
*P-14622	Pump Discharge Jet	(VAR)
P-14638	Pump Piston Valve	
P-14639	Venturi Tube Set Screw	
P-14686	Main Disch Jet Washer	
P-14768	Idle Needle Valve Spring	
P-14773	Main Disch Jet Retainer Plug	
P-14774	Main Discharge Jet Plug Tube	
P-14990	Thro Lever and Choke Lever Return Spring	
P-14993	Float Chamber Cover	
*P-14994	Main Body	(VAR)
‡P-14997	Throttle Stem Bushing	
P-14995	Thro Lever Stem	
P 14998	Throttle Lever	
‡P-13150	Ball Joint Connector	
‡P-9742	Idle Adj Screw	
‡P-9647	Idle Adj Screw Clamp	
*P-14999	Venturi	(VAR)
†P-15000	Air Horn with Valve	
P-15001	Main Body Gasket	
P-15002	Throttle Lever Return Spring Clip	
P-15004	Idle Tube Jet	
P-15006	Choke Lever	
P-15007	Choke Stem	
P-15226	Air Horn	
P-15275	Choke Valve Screws	
P-15302	Air Horn Gasket	
P-15303	Pump Cover Gasket	
P-15390	Econ Push Rod Cotter Pin	
P-15433	Pump Lever Fulcrum Screw	
P-15434	Pump Lever Fulcrum Screw	
P-15437	Float Chamber Vent Screen	
P-15438	Float Chamber Vent Stud Nut	
P-15439	Float Chamber Vent Stud	
P-15440	Float Chamber Vent Screen Lower Cap	
P-15441	Float Chamber Vent Screen Upper Cap	
P-15454	Float Chamber Vent (Complete)	
P-15554	Air Horn Attaching Screw	
P-15820	Vacuum Union Nipple—Not Illustrated	
P-15821	Vacuum Piston and Link	
*P-15879	Pump Discharge Jet	(VAR)
P-15881	Econ Push Rod	
P-15882	Vacuum Piston Felt Washer	
P-16579	Float Chamber Vent Stud Nut Bushing	
*P-16581	Main Discharge Jet	(VAR)
P-17280	Float Needle Valve and Seat	
P-20235	Strainer Body Plug Gasket	

J 4206-G DX 4 Complete Gasket Set

*NOTE On parts marked (VAR) size must be specified when ordering

STANDARD SPECIFICATION

GENERAL MOTORS TRUCK CORP. (051776)
MODEL "Z" YELLOW COACH
(Two Carburetors per Motor)
4⅞" x 5½" 6 Cyl Own 616 Engine
A-14064 DX-4 Carburetor (Code No 23-24)

Part Used on Above Model	
P-6055	Throttle Valve (20°)
P-12465	036' By Pass Jet
P-13395	079' Meter Jet
P-14334	No 54 H S Bleeder
P-14622	No 60 Pump Disch
P-14994	Main Body with No 52-62 Idle Holes
P-14999	1½" Venturi
P-15004	Idle Tube No 68 Feed Hole
P-16581	Main Disch Jet

STANDARD SETTING FOR DX-4 CARBURETOR

Throttle Valve Location Upper lip of throttle valve to be 004 plus or minus 004 with lower part of upper idle hole
Pump Capacity 33 to 37 CC per 10 Strokes

PARTS AND SETTINGS EXCEPTIONS MODEL DX-4 STANDARD CARBURETOR
(Truck)

DODGE BROS 1931 FARGO BUS (383368)
MODELS "90", "91", "94", AND "95"
3½"x5"—8 Cylinder Engine
A-14994 DX-4 Carburetor

Std Part No	Special Part No	Used on Above Model Truck
P-26	P-8387	Gas Conn Channel Plug
P-5439	P-20235	Strainer Plug Gasket
P-12465	P-12465	050' By-Pass Jet
P-13395	P-13395	Blank Metering Jet
P-14334	P-14334	No 65 H S Bleeder
P-14356	P-17333	Choke Valve
P-14622	P-14786	No 64 Pump Discharge Nozzle
P-14773	P-16037	Main Discharge Jet Plug
P-17774	P-16528	Main Discharge Jet Plug Tube
P-14989	P-17318	Main Discharge Jet
P-14994	P-17319	Main Body, No 53-62 Idle Holes
P-14995	P-17320	Throttle Lever Stem
P-14998	P-12788	Throttle Stop
P-14999	P-14999	1⅜' Venturi
P-15000	P-17324	Air Horn (Complete)
P-15004	P-17325	Idle Tube, No 65 Feed Hole
P-15007 P-15006	P-17335	Choke Lever and Stem
P-15226	P-14336	Air Horn (Casting)
P-15275	P-4522	Choke Valve Screw
P-15820	P-14642	Pump Adjusting Screw
P-17280	P-18317	Float Needle Valve and Seat Assembly
None Shown	P-17823	Choke Tube Holder
None Shown	P-11531	Choke Tube Holder Attach Screw
None Shown	P-16362	069' Auxiliary Metering Jet
None Shown	P-14648	Pump Adj Screw Nut
None Shown	P-15858	Pump Adj Screw Collar

NOTE Throttle Valve Location, Flush plus or minus 004
NOTE Pump Capacity 18 to 23 CC per 10 Strokes

DUPLEX TRUCK
4⅜"x4¾ —6 Cylinder Buda Model K-428 Engine
F-1446 DX-4 Carburetor (Code No 62-1)

Std Part No	Special Part No	Used on Above Model Truck
P-12465	P-12465	040' By-Poss Jet
P-13150	P-6950	Plug
P-13395	P-12802	Adj Metering Jet
P-14334	P-14334	No 60 High Speed Bleeder
P-14622	P-14786	No 68 Pump Discharge Nozzle
P-14994	P-17874	Main Body with No 52-62 Idle Holes
P-14999	P-14999	1⅜" Venturi
P-15000	P-21130	Air Horn (Complete)
P-15004	P-14644	Idle Tube with No 70 Feed Hole
P-15006	P-14072	Choke Lever and Stem
P-15007	P-19890	Choke Stem
P-15820	P-14648	Adj Nut
P-16581	P-14332	Main Discharge Jet
None Shown	P-14642	Pump Adj Screws
None Shown	P-12677	Choke Tube Holder on Left Side
None Shown	P-16362	050' Aux Metering Jet

NOTE Pump Capacity, 20-25 CC per 10 Strokes

DUPLEX TRUCK
4½"x5½' —6 Cylinder (Buda L-525 Eng)
F-1686 DX-4 Carburetor (Code No 62-2)

Std Part No	Special Part No	Used on Above Model Truck
P-12465	P-12465	064 By-Pass Jet
P-13150	P-6950	Plug
P-13395	P-15748	Adj Metering Jet
P-14334	P-14334	No 65 High Speed Bleeder
P-14994	P-17874	Main Body with 52-62 Idle Holes
P-14995	P-17320	Throttle Stem
P-14998	P-12122	Throttle Lever on Side Away
	P-9709	Throttle Stop
P-14999	P-14999	1⅜" Venturi
P-15000	P-21131	Air Horn (Complete)
P-15006	P-14072	Choke Lever on Left Side
P-15820	P-14648	Adj Nut
None Shown	P-12680	Choke Tube Holder on Left Side
None Shown	P-11531	Choke Tube Holder Attach Screws
None Shown	P-14642	Adj Screw
None Shown	P-16362	050' Aux Metering Jet

GENERAL MOTORS TRUCK 1934 MODEL "450" (052903)
4⅜"x5"—6 Cylinder Engine
A-17594 DX-4 Carburetor (Code No 23-18)

Std Part No	Special Part No	Used on Above Model Truck
P-26	P-8387	Gas Conn Pipe Plug
P-5439	P-20235	Strainer Plug Gasket
P-12606	P-6668	Lockwashers
P-12465	P-12465	055 By-Pass Jet
P-14622	P-14786	No 60 Pump Discharge Nozzle
P-13395	P-13395	075' Main Metering Jet
P-14334	P-14334	No 56 High Speed Bleeder
P-14356	P-15269	Choke Valve
P-14993	P-19795	Float Chamber Cover
P-14994	P-17319	Main Body No 52-62 Idle Holes
P-14995	P-19834	Throttle Lever Stem
P-14998	P-15615	Throttle Lever and Stop
P-14999	P-14999	1 7/16' Venturi Tube
P-15000	P-19833	Air Horn (Complete)
P-15006 P-15007	P-15271	Choke Lever and Stem
P-15275 P-1693	P-4522	Choke Valve Screws
P-15820	P-14642	Pump Adjusting Screw
P-17280	P-18317	Float Needle Valve and Seat Assembly
None Shown	P-19845	Choke Tube Holder
None Shown	P-11531	Choke Tube Holder Attaching Screws
None Shown	P-15858	Pump Adjusting Screw Collar
None Shown	P-14648	Pump Adjusting Screw Nut

NOTE Throttle Valve Location, Flush plus or minus 004

GENERAL MOTORS TRUCK 1931 (052223)
A-16044 DX-4 Carburetor (Code No 23-21)

Std Part No	Special Part No	Used on Above Model Truck
P-13395	P-13395	084" Meter Jet

GENERAL MOTORS TRUCK 1931 (052241)
5"x6" 6 Cyl
A-16064 DX-4 Carburetor (Code No 23-20)

Std Part No	Special Part No	Used on Above Model Truck
P-12465	P-12465	052' By Pass Jet
P-13395	P-13395	090' Meter Jet

SPECIFICATIONS OF STANDARD EQUIPPED TRUCKS
PARTS AND SETTINGS EXCEPTIONS MODEL DX-4 STANDARD CARBURETOR (Continued)

INDIANA TRUCK (75603)

4⅜″x4¾″—6 Cylinder Hercules "YXC" Engine
A-16864 DX-4 Carburetor (Code No 30-5)

Std Part No	Special Part No	Used on Above Model Truck
P-26	P-8387	Gas Connection Pipe Plug
P-13395	P-12802	Adjustable Metering Jet
P-14334	P-14334	No 70 High Speed Bleeder
P-14356	P-15269	Choke Valve
P-14622	P-15879	No 60 Pump Discharge Nozzle
P-14994	P-17874	Main Body No 52-62 Idle Holes
P-14995	P-17320	Throttle Lever Stem
P-14998	P-12122	Throttle Lever
P-14999	P-14999	1$\frac{5}{16}$' Venturi
P-15000	P-15272	Air Horn (Complete)
P-15006 P-15007	P-15271	Choke Lever and Stem
P-15226	P-14336	Air Horn (Casting)
P-15275 P-1693	P-4522	Choke Valve Screws
P-15820	P-14642	Pump Adjusting Screw
P-15821	P-15662	Economizer Piston and Link
None Shown	P-12823	Choke Tube Holder
None Shown	P-11531	Choke Tube Holder Attaching Screw
None Shown	P-16362	050' Auxiliary Metering Jet
None Shown	P-14648	Pump Adjusting Screw Nut
None Shown	P-9709	Throttle Lever Stop

INDIANA 1932 MODEL "43-4" (75570)

4⅝'x5¼″—6 Cylinder
F-1866 DX-4 Carburetor (Code No 30-6)

Same as A-16864 specifications (ABOVE) with exception of Venturi size—1⅜

INDIANA MODEL "16x6-6' (79845)

4⅞″x4¾″—6-Cylinder
A-17674 DX-4 Carburetor (Code No 30-12)

Std Part No	Special Part No	Used On Above Model Truck
P-26	P-8387	Gas Connection Channel Plug
P-1693 P-15275	P-4522	Choke Valve Screws
P-9745	P-20873	Taper Pin
P-12465	P-12465	044 By-Pass Jet
P-13395	P-12802	Adj Metering Jet
P-14334	P-14334	No 70 H S Bleeder
P-14356	P-15269	Choke Valve
P-14622	P-14786	No 60 Pump Disch Nozzle
P-14993	P-21145	Float Cover
P-14994	P-17319	Main Body No 52-62 Idle Holes
P-14995	P-17320	Throttle Lever Stem
P-14998	P-12122	Throttle Lever
P-14999	P-14999	1⅜' Venturi
P-15000	P-15272	Air Horn (Complete)
P-15001	P-21146	Main Body Gasket
P-15006 P-15007	P-15271	Choke Lever and Stem
P-15226	P-14336	Air Horn (Casting)
P-15303	P-21147	Pump Cover Gasket
P-15821	P-15662	Pump Piston and Link
P-15820	P-14642 P-14648	Pump Adj Screw Pump Adj Screw Nut
P-15881	P-21149	Push Rod
None Shown	P-12823	Choke Tube Holder
None Shown	P-16362	050 Aux Metering Jet
None Shown	P-21150	Push Rod Felt Packing
None Shown	P-21151	Push Rod Felt Brass Washer
None Shown	P-21152	Pump Link Spring
None Shown	P-15275	Pump Link Packing
None Shown	P-21156	Pump Link Brass Washer
None Shown	P-21157	Pump Link Brass Washer
None Shown	P-21153	Pump Seal Washer
None Shown	P-21148	Float Cone Vent Tube
None Shown	P-16795	Throttle Lever Stop

LE BLOND SCHACHT (8288)

F-2486 DX-4 Carburetor

Std Part No	Special Parts	Used on the Above Model Truck
P-12465	P-12465	036 By-Pass Jet
P-13395	P-12802	Adj Metering Jet
P-14334	P-14334	No 70 H S Bleeder
P-14786	P-14786	No 60 Pump Discharge Nozzle
P-16362	P-16362	050' Aux Metering Jet
P-17318	P-14989	Main Discharge Jet
P-17324	P-15272	Air Horn (Complete)
P-17325	P-15004	Idle Tube
P-17333	P-15269	Choke Valve
P-17335	P-15271	Choke Lever and Stem
None Shown	P-16250	Throttle Lever on Side Away

INDIANA TRUCK 1935 MODEL "17 DR" (79961)

4⅜″ x 4¾″—6 Cyl Herc Eng
F-3771 DX-4 Carburetor (Code No 30-19)

Std Part No	Special Parts	Used on Above Model Truck
P-26	P-8387	Gas Connection Pipe Plug
P-1693 P-15275	P-4522	Choke Valve Screws
P-13395	P-12802	Adjustable Metering Jet
P-14334	P-14334	No 70 H S Bleeder
P-14356	P-15269	Choke Valve
P-14622	P-15879	No 60 Pump Discharge Nozzle
P-14994	P-17874	Main Body No 52-62 Idle Holes
P-14998	P-12122	Throttle Lever
P-14999	P-14999	1$\frac{5}{16}$ Venturi
P-15000	P-15272	Air Horn (Complete)
P-15006 P-15007	P-19890	Choke Lever Stem
P-15226	P-14336	Air Horn (Casting)
P-15820	P-14642	Pump Adjusting Screw
P-15821	P-15662	Economizer Piston and Link
P-19891	P-17320	Throttle Lever Stem
None Shown	P-12680	Choke Tube Holder
None Shown	P-11531	Choke Tube Holder Attaching Screw
None Shown	P-16362	050 Auxiliary Metering Jet
None Shown	P-14648	Pump Adjusting Screw Nut
None Shown	P-9709	Throttle Lever Stop
None Shown	P-19892	Loose Lever
None Shown	P-17287	Loose Lever Stop
None Shown	P-14000	Choke Lever

NELSON LE MOON

4'x 4¾″—6 Cylinder Waukesha 6-110 Engine
F-3125 DX-4 Carburetor (Code No 120-8)

Std Part No	Special Part No	Used on Above Model Truck
P-26	P-8387	Plug
P-12465	P-12465	046 By Pass Jet
P-12606	P-6668	Lock Washers
P 13395	P-13395	054 Metering Jet
P-14334	P-14334	No 70 H S Bleeder
P-14344	P-19991	Econ Helical Spring
P-14356	P-15269	Air Horn Valve (Comp)
P-14622	P 15879	No 60 Pump Disch Nozzle
P-14994	P-19994	Main Body with No 52 62 Idle Holes
P-14995	P-19891	Thro Lever Stem
P 14998	P-11317	Thro Lever and Screw
P-14999	P-14999	1$\frac{5}{16}$ Venturi
P-15000	P-19889	Air Horn with Valve (Comp)
P-15006	P-14000	Air Horn Lever and Wire Connector
P-15007	P-19890	Air Horn Lever Stem
P-15226	P-14336	Air Horn
P-15275	P-4522	Air Horn Valve Screw
P-15821	P 15662	Econ Piston and Link
None Shown	P 9709	Thro Stop
None Shown	P-11531	Tube Holder Attach Screws
None Shown	P-12680	Tube Holder
None Shown	P-14642	Adj Screw
None Shown	P-14648	Adj Screw Nut
None Shown	P-16362	050 Aux Met Jet
None Shown	P-17287	Loose Lever Stop
None Shown	P-19892	Loose Thro Lever

STUDEBAKER 1934 MODEL "W" TRUCK (635385)

4″ x 4¾″—6 Cylinder Wauk 6 110 Eng
A-17634 DX 4 Carburetor (Code No 6-7)

Std Part No	Special Parts	Used on Above Model Truck
P-12465	P-12465	046 By Pass Jet
P-13395	P-13395	054 Metering Jet
P-14334	P-14334	No 70 High Speed Bleeder
P-14356	P-15269	Choke Valve
P-14768	P-19991	Econ Piston Helical Spring
P-14994	P-19994	Main Body with No 52-62 Idle Holes
P-14995	P-20230	Throttle Lever Stem
P-14998	P-11317	Throttle Lever
P-14999	P-14999	1$\frac{5}{16}$' Venturi
P-15000	P-19889	Air Horn with Valve (Complete)
P-15002	P-19890	Choke Stem
P-15006	P-14000	Choke Lever
P-15226	P-14336	Air Horn
P-15821	P-15662	Econ Piston and Link
None Shown	P-16362	050 Main Metering Jet
None Shown	P-14642	Econ Adjustment Screw
None Shown	P-14648	Econ Adjustment Screw Nut
None Shown	P-9709	Throttle Stop
None Shown	P-12680	Choke Tube Holder
None Shown	P-11631	Choke Tube Holder Attach Screw

STUDEBAKER TRUCK 1934 MODEL "W" (634279)

4 x4¾″ 6 Cyl Waukesha 6-110 Engine
A-17604 DX-4 Carburetor (Code No 6-6)

Std Part No	Special Part No	Used on Above Model Truck
P-26	P-8387	Plug
P-12465	P-12465	046' By Pass Jet
P-12606	P-6668	Lock Washers
P-13395	P-13395	054' Meter Jet
P-14334	P-14334	No 70 H S Bleeder
P-14344	P-19991	Econ Helical Spring
P-14356	P-15269	Air Horn Valve (Comp)
P-14622	P-15879	No 60 Pump Disch Nozzle
P-14994	P-19994	Main Body with No 52-62 Idle Holes
P-14995	P-19891	Thro Lever Stem
P-14998	P-11317	Thro Lever and Screw
P-14999	P-14999	1$\frac{5}{16}$' Venturi
P-15000	P-19889	Air Horn with Valve (Comp)
P-15006	P-14000	Air Horn Lever and Wire Connector
P-15007	P-19890	Air Horn Lever Stem
P-15226	P-14336	Air Horn
P-15275	P-4522	Air Horn Valve Screws
P-15821	P-15662	Econ Piston and Link
None Shown	P-9709	Thro Stop
None Shown	P-11531	Tube Holder Attach Screws
None Shown	P-12680	Tube Holder
None Shown	P-14642	Adj Screw
None Shown	P-14648	Adj Screw Nut
None Shown	P-16362	050″ Aux Met Jet
None Shown	P-17287	Loose Lever Stop
None Shown	P-19892	Loose Thro Lever

SPECIFICATIONS OF STANDARD EQUIPPED INDUSTRIAL ENGINES
PARTS AND SETTINGS EXCEPTIONS MODEL DX-4 STANDARD CARBURETOR

HERCULES (16628-CS)

4⅛" x 5¼"—6 Cyl. Herc RXC Eng.

F-3613 DX-4 Carbureor (Code No 27-19)

Std Part No.	Special Parts Used on Above Model Car	
P-26	P-8387	Gas Connection Pipe Plug
P-1693 P-15275	P-4522	Choke Valve Screws
P-5439	P-20235	Strainer Plug Gasket
P-13395	P-12802	Adjustable Metering Jet
P-14334	P-14334	No 70 High Speed Bleeder
P-14356	P-15269	Choke Valve
P-14622	P-14786	No 60 Pump Discharge Nozzle
P-14994	P-17874	Main Body No 52-62 Idle Holes
P-14995	P-19891	Throttle Lever Stem
P-14998	P-11317	Throttle Lever
P-14999	P-14999	1⅜' Venturi
P-15000	P-19889	Air Horn (Complete)
P-15006 P-15007	P-19890	Choke Lever Stem
P-15226	P-14136	Air Horn (Casting)
P-15820	P-14642	Pump Adjusting Screw
P-15821	P-15662	Economizer Piston and Link
None Shown	P-12680	Choke Tube Holder
None Shown	P-11531	Choke Tube Holder Attaching Screw
None Shown	P-16362	052" Auxiliary Metering Jet
None Shown	P-14648	Pump Adjusting Screw Nut
None Shown	P-9709	Throttle Lever Stop
None Shown	P-19892	Loose Lever
None Shown	P-17287	Loose Lever Stop
None Shown	P-14000	Choke Lever

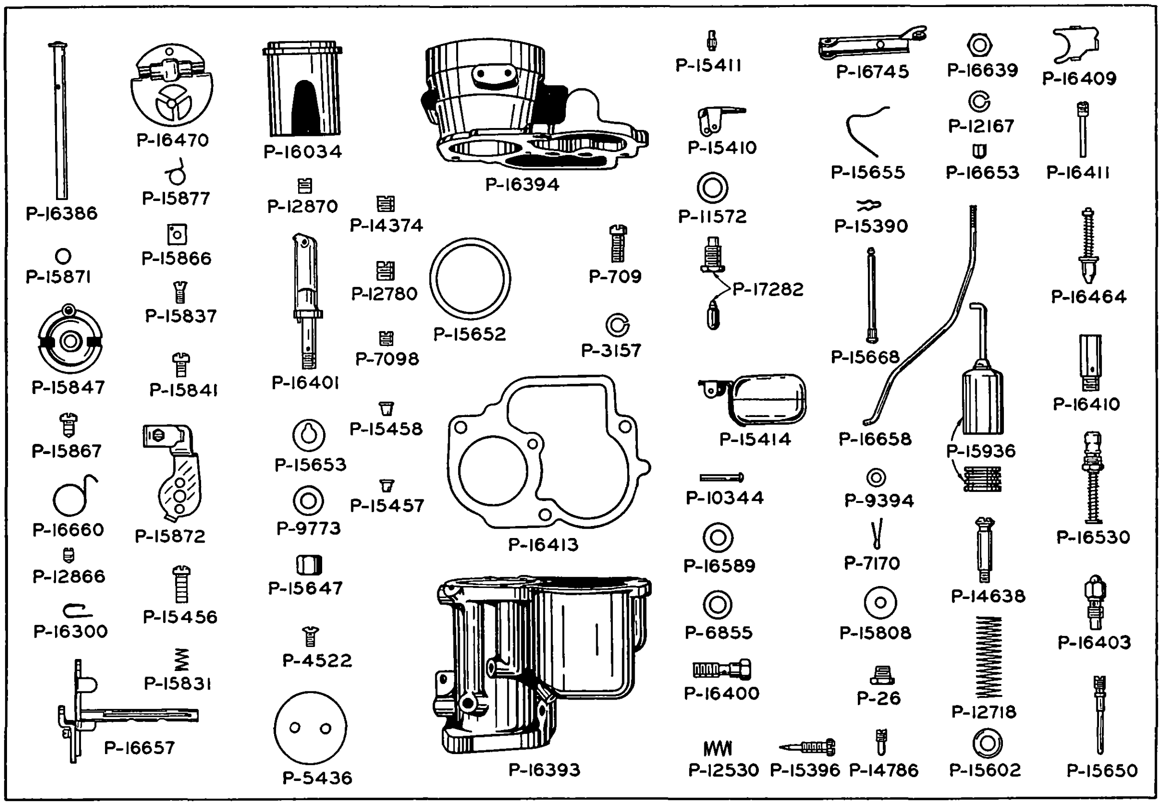
REPLACEMENT EQUIPMENT
PARTS AND SETTINGS EXCEPTIONS MODEL DX-4 STANDARD CARBURETOR
(Truck)

FAGEOL TRUCK 1935

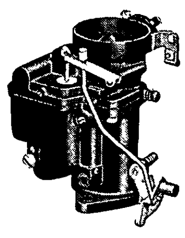
3⅞'x4¾"—6-Cylinder (Wauk. 6-10 Engine)

J-4541 DX-4 Carburetor (Code No 100-1)

Std Part No.	Special Part No. Used On Above Model Truck	
P-14344	P-14334	No 65 H S Bleeder
P-12465	P-12465	050 By-Pass Jet
P-13395	P-12512	Blank Metering Jet
P-15004	P-14350	Idle Tube
P-14622	P-15879	No 64 Pump Discharge Nozzle
P-14998	P-10001-K	Throttle Lever
P-14994	P-17874	Main Body No 52-62 Idle Holes
P-14999	P-14999	1 5/16" Venturi
P-14995	P-17320	Throttle Stem
P-15000	P-15272	Air Horn Complete
P-15226	P-14336	Air Horn Casting
P-14356	P-15269	Choke Valve
P-15007	P-15271	Choke Lever and Stem
None Shown	P-12823	Choke Tube Holder
None Shown	P-16362	072 Aux Metering Jet
None Shown	P-14642	Pump Adj Screw
None Shown	P-14648	Pump Adj Screw Nut



DXC-3
N . A-15343X3
(Obsolete)
1½ CARB SAE



Notes and References

Car models having this carburetor with parts exceptions therefor are shown on back of this page

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†These parts not illustrated

‡Indicates Sub assembly part

PARTS LIST STROMBERG MODEL "DXC" CARBURETOR (AS USED ON "CD" CHRYSLER)

Part No	Name	
P-26	Gas Inlet Plug	
P-709	Main Body Attaching Screws	
P-3157	Main Body Attaching Screw Lockwashers	
P-3222	Elbow Union	
‡P-3221	Union Elbow	
‡P 3220	Union Nut	
P-4522	Throttle Valve Screws	
*P-5436	Throttle Valve	(VAR)
P-6855	Main Metering Jet Gasket	
P-7098	Idle Channel Plug	
P-7170	Pump Connecting Rod Cotter Pin	
P-9773	Main Discharge Jet Nut Gasket	
P-10344	Float Fulcrum Pin	
P-11572	Float Lever Hanger Gasket	
P-11572	Float Needle Valve Seat Gasket	
P-12167	Pump Connecting Rod Lock Washer	
P-12530	Idle Needle Valve Spring	
P-12718	Pump Piston Spring	
P-12780	Idle Discharge Channel Plug	
P-12780	Pump Disch Hole Plug	
P-12866	Choke Pulley Set Screw	
*P-12870	High Speed Bleeder	(VAR)
P-14374	Auxiliary Channel Plug	
P-14374	Vacuum Economizer Boss Plug	
P-14638	Pump Piston Valve	
*P-14786	Pump Discharge Nozzle	(VAR)
P-15384	Main Metering Jet	
P-15390	Pump Lever Fulcrum Screw Cotter Pin	
P-15396	Idle Needle Valve	
P-15410	Float Lever Hanger	
P-15411	Float Lever Hanger Dowel Pin	
P-15414	Float with Lever (Complete)	
P-15456	Throttle Stop Screw	
P-15457	Idle Drive Plug	
P-15458	Idle Feed Channel Plug	
P-15458	Pump Conn Chan Plug	
P-15458	Pump Gas Channel Plug	
P-15458	Vacuum Economizer Suction Plug	
P-15602	Pump Piston Spring Cup	
P-15650	Idle Tube with Holder	
P-15652	Large Venturi Tube Gasket	
P-15653	Main Discharge Jet Gasket	
P-15655	Pump Lever Spring	
P-15668	Pump Lever Fulcrum Screw	

Part No	Name	
P-15808	Pump Washer	
P-15831	Throttle Stop Screw Spring	
P-15837	Choke Valve Stop Block Screw	
‡P-15877	Choke Valve Spring	
P-15841	Choke Tube Holder Attaching Screw	
P-15847	Choke Pulley	
P-15866	Choke Valve Stop Block	
P-15867	Choke Wire Clamp Screw	
P-15871	Choke Stem Bushing	
P-15872	Choke Tube Holder with Screw	
‡P-12868	Choke Tube Clamp Screw	
‡P-8806	Choke Tube Clamp Screw Nut	
‡P-11561	Choke Tube Clamp	
P-15936	Pump Piston and Sleeve (Complete)	
*P-16034	Large Venturi Tube	(VAR)
P-16300	Choke Pulley Clip Spring	
P-16310	Main Discharge Jet Nut	
P-16386	Choke Lever Stem	
†P-16390	Air Horn with Valve (complete)	
*P-16393	Main Body	(VAR)
P-16394	Air Horn	
*P-16400	Main Metering Jet	(VAR)
P-16401	Main Discharge Jet (Complete)	
*P-16403	By-Pass Jet (Complete)	(VAR)
P-16409	Auxiliary Lever	
P-16410	Auxiliary Needle Valve Seat	
P-16411	Auxiliary Lever Fulcrum Screw	
P-16413	Main Body Gasket	
P-16464	Auxiliary Needle Valve (Complete)	
P-16470	Choke Valve (Complete)	
‡P-16408	Choke Valve	
‡P-15331	Choke Valve Pin	
‡P-15844	Choke Valve Plate Spring	
‡P-15329	Choke Valve Plate	
‡P-15266	Choke Valve Pin Bushing	
‡P-8344	Choke Valve Open Washer	
P-16530	Vacuum Economizer (Complete)	
P-16639	Pump Connecting Rod Nut	
P-16653	Pump Connecting Rod Ball Nut	
P-16657	Throttle Lever and Stem	
P-16658	Pump Connecting Rod	
P-16660	Choke Pulley Spring	
P-16745	Pump Lever	
P-17282	Float Needle Valve and Seat	

J 4204 G DXC 3 Complete Gasket Set

*NOTE On parts marked (VAR.) size must be specified when ordering

Printed in United States of America

STANDARD SPECIFICATION

(Passenger Cars)

CHRYSLER "CD" DELUXE 1931 (376880)
3¼" x 4¼"—8 Cyl

No. A-15343—DXC-3 Carburetor (Code No 4-15)

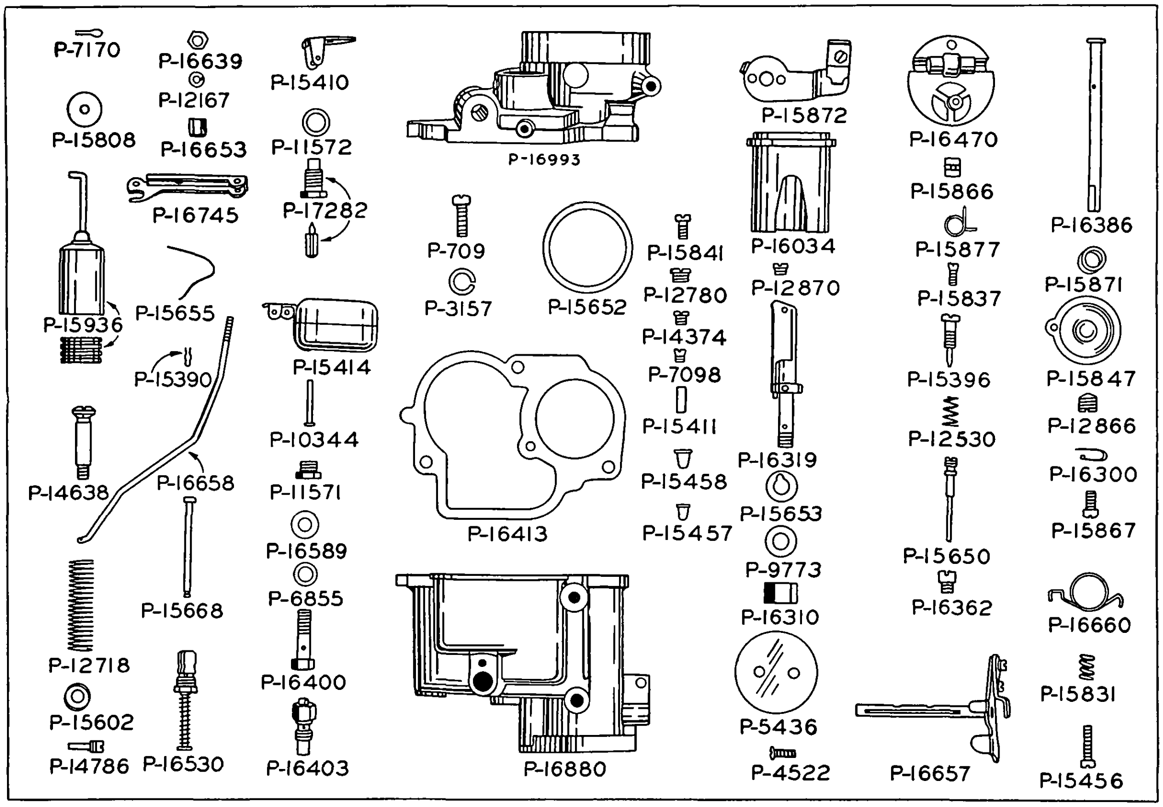
P-5436	20° Throttle Valve
P-12870	High Speed Bleeder No. 65
P-14786	Pump Discharge Nozzle No 68
P-15650	Idle Tube, No 70 Feed Hole
P-16034	Venturi 1$\frac{3}{16}$"
P-16393	Main Body with No 55-70 Idle Holes
P-16400	Metering Jet 062"
P-16401	Main Discharge Jet No 33
P-16403	By-Pass Jet 030"

STANDARD SETTINGS FOR DXC-3 CARBURETORS

Throttle Valve Location Upper lip of throttle valve to be flush plus or minus 004 with lower part of upper idle holes

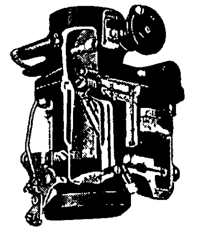
Pump Travel ¾"

Pump Capacity 25 CC per 10 Strokes



DXR-2
N . A-14802
(Obsolete)
1¼" CARB SAE

DXR-3
N . A-15343X4
(Obsolete)
1½ CARB SAE



Notes and References:

Parts DXR-3 illustrated corresponding DXR-2 Parts shown in the listing below

Car models having these carburetors with parts exceptions therefor are shown on back of this page

†These parts not illustrated

‡Indicates Sub assembly part

PARTS LISTS STROMBERG MODEL "DXR" CARBURETOR

DXR 2 Part No	DXR-3 Part No	Name
P-709	P-709	Main Body Attaching Screws
P-3157	P-3157	Main Body Attach Screw L Wash
P-4522	P-4522	Throttle Valve Screws
*P-6454	P-5436	**Throttle Valve (VAR)**
P-6855	P-6855	Main Metering Jet Gasket
P-7098	P-7098	Idle Channel Plug
P-7170	P-7170	Pump Connecting Rod Cotter Pin
P 9773	P-9773	Main Discharge Jet Nut Gasket
P-10344	P-10344	Float Fulcrum Pin
P-11572	P-11572	Float Hanger Gasket
P-11572	P-11572	Float Needle Valve Seat Gasket
P-1693	P-12167	Pump Connecting Rod Lock Washer
P-12530	P-12530	Idling Needle Valve Spring
P-12718	P-12718	Pump Piston Spring
P-12780	P-12780	Idle Discharge Channel Plug
P-12780	P-12780	Idle Drill Hole Plug
P-12780	P-12780	Pump Discharge Hole Plug
P-12866	P-12866	Choke Pulley Set Screw
*P-12870	P-12870	**High Speed Bleeder (VAR)**
	P-14374	Aux Gas Channel Plug
P-14374	P-14374	Vacuum Economizer Boss Plug
P-14638	P-14638	Pump Piston Valve
P-15879	P-14786	Pump Discharge Nozzle
P-15390	P-15390	Pump Lever Fulcrum Screw Cot Pin
P-15396	P-15396	Idling Needle Valve
P-15410	P-15410	Float Lever Hanger
P-15411	P-15411	Float Lever Hanger Dowel Pin
P-15414	P-15414	Float with Lever (Complete)
P-15456	P-15456	Throttle Stop Screw
P-15457	P-15457	Idle Air Bleed Channel Plug
P-15458	P-15458	Economizer Gas Channel Plug
P-15458	P-15458	Idle Feed Channel Plug
P-15458	P-15458	Pump Conn Chan Plug
P-15458	P-15458	Pump Gas Channel Plug
P-15458	P-15458	Vacuum Economizer Suction Plug
P-15602	P-15602	Pump Piston Spring Cup
P-15650	P-15650	Idle Tube with Holder
P-15652	P-15652	Large Venturi Tube Gasket
P-15653	P-15653	Main Discharge Jet Gasket
P-15655	P-15655	Pump Lever Spring
P-15668	P-15668	Pump Lever Fulcrum Pin
P-15808	P-15808	Pump Washer

DXR 2 Part No	DXR-3 Part No	Name
P-15831	P-15831	Throttle Stop Screw Spring
‡P-506		Pump Lever Adj Screw
‡P-1693		Pump Lever Adj Screw L Washer
P-15837	P-15837	Choke Valve Stop Block Screw
P-15841	P-15841	Choke Tube Holder Attach Screw
P-15847	P-15847	Choke Pulley
P-15866	P-15866	Choke Valve Stop Block
P-15867	P-15867	Choke Wire Clamp Screw
P-15871	P-15871	Choke Stem Bushing
P-15872	P-15872	Choke Tube Holder with Screw
‡P-11561	‡P-11561	Choke Tube Clamp
‡P-8806	‡P-8806	Choke Tube Clamp Screw Nut
‡P-12868	‡P-12868	Choke Tube Clamp Screw
P-15877	P-15877	Choke Valve Spring
P-15936	P-15936	Pump Piston and Sleeve (Complete)
*P-15634	P-16034	**Large Venturi Tube (VAR)**
P-16300	P-16300	Choke Pulley Spring Clip
P-16310	P-16310	Main Discharge Jet Nut
*P-16319	P-16319	**Main Discharge Jet (Com) (VAR)**
*P-16362	P-16362	**Aux. Metering Jet (VAR)**
P-15873	P-16386	Choke Lever Stem
*P-12512	P-16400	**Main Metering Jet (VAR)**
P-15405	P-16403	Economizer By-Pass Jet
P-15644	P-16413	Main Body Gasket
P-15874	P-16470	Choke Valve (Complete)
‡P-15860	‡P-16405	Choke Valve
‡P-15264	†P-15331	Choke Valve Pin
‡P-15822	‡P-15844	Choke Valve Plate Spring
†P-15261	‡P-15329	Choke Valve Plate
P-15479	P-16530	Vacuum Economizer (Complete)
	P-16589	Main Metering Jet Washer
P-9284	P-16639	Pump Connecting Rod Nut
†P-15631	P-17310	Air Horn with Valve (Complete)
P-15633	P-16993	Air Horn (Casting)
P-15643	P-16653	Pump Connecting Rod Ball Nut
P-15639	P-16657	Throttle Lever with Stem
P-15637	P-16658	Pump Connecting Rod
P-16660	P-16660	Choke Pulley Spring
P-15642	P-16745	Pump Lever
*P-16382	P-16880	**Main Body (VAR)**
P-17281	P-17282	Float Needle Valve and Seat

J 4205-G DXR 2 Complete Gasket Set
J 4204 G DXR 3 Complete Gasket Set

***NOTE On parts marked (VAR) size must be specified when ordering**

STANDARD SPECIFICATIONS

CHRYSLER 1931 "CD' DELUXE (376880)
3¼x4¼ 8 Cyl
A-15343x4 DXR-3 Carburetor (Code No 4-15)

Part Used on Above Model Car	
P-5436	Throttle Valve (20°)
P-12870	No 65 H S Bleeder
P-14786	No 68 Pump Disch
P-15650	Idle Tube No 70 Feed Hole
P-16034	1 1/16 Venturi
P-16319	No 33 Main Dis Jet
P-16362	058 Aux Meter Jet
P-16400	Blank Meter Jet
P-16403	030 by Pass Jet
P-16880	Main Body with No 55-70 Idle Holes

OLDSMOBILE 1931 F 31 (399176)
3 1/16"x4⅛ 6 Cyl
A-14802 DXR-2 Carburetor (Code No 5-8)

P-6454	Throttle Valve (20°)
P-12512	036 Meter Jet
P-12870	No 60 H S Bleeder
P-15405	032 By Pass Jet
P-15634	1 1/16' Venturi
P-15650	Idle Tube, No 70 Feed Hole
P-15879	No 68 Pump Disch
P-16319	No 33 Main Disch Jet
P-16362	046' Aux Meter Jet
P-16382	Main Body with No 54 68 Idle Holes

STANDARD SETTINGS FOR DXR-2-3 CARBURETORS

Throttle Valve Location Upper lip of throttle valve to be flush plus or minus 004 with lower part of upper idle hole
Pump Capacity DXR-2—21 CC per 10 Strokes
DXR-3—25 CC per 10 Strokes
Pump Travel DXR-2—Middle Adjustment
DXR-3—Maximum Adjustment

PARTS AND SETTINGS EXCEPTIONS MODEL DXR STANDARD CARBURETOR
(Passenger Cars)

CHRYSLER "CD DELUXE' 1931 (375135)
3¼" x 4¼"—8 Cyl

No A-15233—DXR-3 Carburetor.

Std Part No	Special Part Used on Above Model Car	
P-16400	P-13395	Metering Jet 030
P-16362	P-16362	Auxiliary Metering Jet 055"
P-16657	P-16309	Throttle Lever and Stem
P-16658	P-16312	Pump Connecting Rod
P-16880	P-16293	Main Body with No 54-68 Idle Holes

CHRYSLER "CP DELUXE' 1932 (386404)
3¼" x 4½"—8 Cyl.

No A-16153—DXR-3 Carburetor

Std Part No	Special Part Used on Above Model Car	
P-5436	P-5436	Throttle Valve 17°
P-12870	P-12870	High Speed Bleeder No 60
P-16034	P-16034	Venturi Tube 1¼'
P-16362	P-16362	Auxiliary Metering Jet 066'
P-16400	P-16400	Metering Jet (Blank)
P-16403	P-16403	By-Pass Jet 036'
P-16880	P-16880	Main Body with No 53-66 idle holes
P-17310	P-16390	A H and Valve

NOTE Throttle Valve Location flush plus 006

DODGE "DK" 1932 (383360)
3¼" x 4¼"—8 Cyl

No A-15713—DXR-3 Carburetor (Code No 3-23)

Std Part No	Special Part Used on Above Model Car	
P-5436	P-5436	Throttle Valve 17°
P-14786	P-15879	Pump Nozzle No 68
P-16034	P-16034	Venturi Tube 1⅛"
P-16403	P-16403	By-Pass Jet 024'
P-16880	P-16880	Main Body with No 53 66 idle holes

HUPP "B" 1932-33 (69427)
3⅜" x 4¼"—6 Cyl.

No A-16052—DXR-2 Carburetor

Std Part No	Special Part Used on Above Model Car	
P-12512	P-12512	Metering Jet 030
P-12718	P-12464	Pump Piston Spring
P-15405	P-15405	By-Pass Jet 034'
P-15634	P-15634	Venturi Tube 1⅛"
P-15639	P-16920	Throttle Lever and Stem
P-15879	P-15879	Pump Discharge Nozzle No 70
P-16362	P-16362	Auxiliary Metering Jet 052

NOTE Throttle Valve Location, flush plus 006

NOTE Pump Capacity 15 to 17 CC per 10 Strokes

NASH 1931 '9 70' (21693)
2⅞"x4⅜ 8 Cyl

A-13872 DXR 2 Carburetor

Std Part No	Special Part Used on Above Model Car	
P-12512	P-12512	034" Meter Jet
P-12870	P-12870	No 56 H S Bleeder
P-15405	P 15405	034' By Pass Jet
P-15634	P-15634	1 3/32' Venturi
P 16362	P-16362	048 Aux Met Jet
P-17281	P-17282	Needle and Seat

NOTE Throttle Valve Location flush minus 006

NOTE Pump Capacity 21 CC per 10 Strokes

REPLACEMENT EQUIPMENTS
PARTS AND SETTINGS EXCEPTIONS MODEL DXR STANDARD CARBURETOR
(Passenger Cars and Trucks)

FORD A 1928 TO 1931, INCL PKG EQUIPT
3⅞ x4¼" 4 Cyl

A-15102 DXR-2 Carburetor (Code No 2-6)

Std Part No	Special Part Used on Above Model Car	
P-12870	P-12870	No 56 H S Bleeder
P-12512	P-15384	030 Met Jet
P-15405	P-15405	020' By Pass Jet
P-15410	P-16275	Float Hanger
P-15414	P-16276	Float with Lever
P-16362	P-16362	050" Aux Met Jet
P-17281	P-19549	Needle and Seat
None Shown	P-26	Hex Hd Pipe Plug
None Shown	P-16066	Manifold
None Shown	P-6385	Studs
None Shown	P-16465	Flange Gasket
None Shown	P-14683	Hex Nuts
None Shown	P-16539	Thro Lever with Shaft
None Shown	P-15344	Washer
None Shown	P-10773	Thro Lever with Screw
None Shown	P-16111	Thro Rods
None Shown	P-79	Cotter Pin
None Shown	P-3292	Headless Pipe Plugs
None Shown	P-16495	Air Cleaner

NOTE Pump Capacity 18 CC per 10 Strokes

EQUIPMENT

P-16606 Bushings—P-3260 Gaskets—P-6877 Cap Screws—P-6592 Lock Washers—P-16627 Hose—P-16625 Hose Clamps—P-16623 Elbow (Hose Conn)—P-16624 Elbow (Hose Conn)—P-16626 Nipple (Hose Conn)—P-16110 Dash Control with Tube 28" Long and Wire 32' Long

NASH "8-70', "9-70" 1930-'31 PKG EQUIPT
2⅞x4⅜" 8 Cyl

A-15082 DXR-2 Carburetor

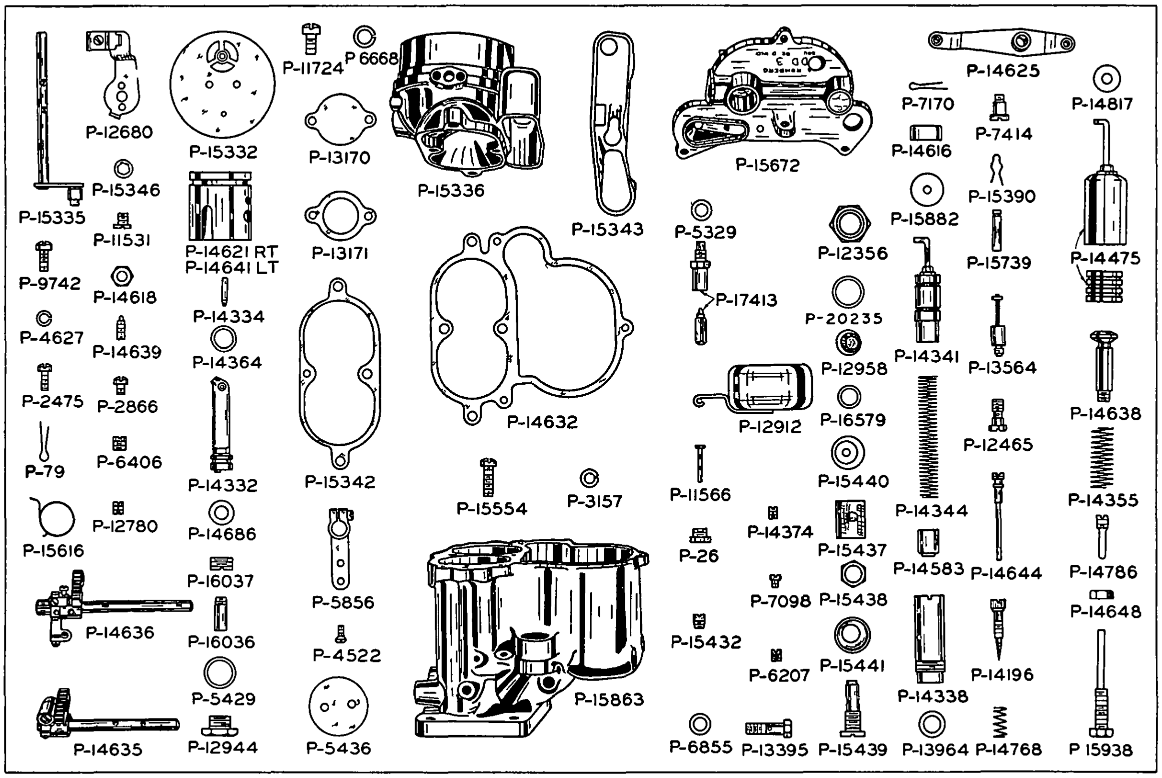
Std Part No	Special Part Used on Above Model Car	
P-12512	P-12512	034' Meter Jet
P 12870	P-12870	No 56 H S Bleeder
P 15405	P-15405	034 By Pass Jet
P-15631	P-16068	Air Horn and Valve (Comp)
P-15633	P-16083	Air Horn
P-15634	P-15634	1 3/32 Venturi
P-16362	P-16362	048 Aux Meter Jet
P-17281	P 17282	Fl Needle and Seat
None Shown	P-14736	Bell Crank
None Shown	P-9818	Hex Hd Stud
None Shown	P-9882	Hex Nut
None Shown	P-2290	Hex Nut
None Shown	P-6668	Lock Washer
None Shown	P-16137	Thro Rod
None Shown	P-6068	Washer

NOTE Throttle Valve Location flush minus 006

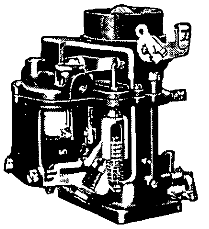
NOTE Pump Capacity 27 CC per 10 Strokes

EQUIPMENT

J-4130 F Manifold Fitting—J-4160 Fitting—P-16495 Air Cleaner—P-16108 Control 30 Tube 36 Wire—P-16465 Flange Gasket—P-79 Cotter Pin—P-16585 Gasket—P-5558 Hex Nut—P-5364 Lock Washer—P-14683 Nuts



DD-3 N . A-13753
(Obsolete)
1½" DUAL CARB



Notes and References.

Car models having this carburetor with parts exceptions therefor are shown on back of this page

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†These parts not illustrated

‡Indicates Sub assembly part

PARTS LIST STROMBERG MODEL "DD-3" STANDARD CARBURETOR

Part No	Name	
P-26	Drain Plug	
P-26	Gas Conn Channel Plug	
P-2475	Float Chamber Cover Screws	
P-2866	Float Chamber Vent Screw	
P-3157	Air Horn Attaching Screw Lock Washers	
P-3222	Elbow Union	
‡P-3220	Union Nut	
‡P 3221	Union Elbow	
P-4522	Throttle Valve Screws	
P-4522	Choke Valve Screws	
P-4627	Float Chamber Vent Screw Lock Washer	
P 5329	Float Needle Valve Seat Gasket	
P-5429	Main Discharge Jet Channel Plugs Gaskets	
*P-5436	Throttle Valves	(VAR)
P-5856	Throttle Lever and Screw	
‡P-3199	Throttle Lever Clamp Screw	
P-6207	Idle Feed Channel Plugs	
P-6207	Main Discharge Jets Plugs	
P-6406	Economizer Gas Channel Plug	
P 6406	Idle Discharge Holes Plugs	
P-6668	Float Chamber Cover Screws Lock Washers	
P-6668	Fuemer Body Attaching Screw Lock Washer	
P-6855	By-Pass Jet Gasket	
P-6855	Main Metering Jets Gaskets	
P-7098	Idle Channel Plugs	
P-7170	Pump Piston Sleeve Cotter Pin	
P-7170	Vacuum Piston Cotter Pin	
P-7414	Pump Lever Fulcrum Screw	
P-9742	Air Horn Attaching Screw	
P-11531	Choke Tube Holder Attach Screws	
P-11566	Float Fulcrum Pin	
P-11724	Fuemer Body Cover Attaching Screw	
P-12356	Strainer Body Plug	
*P-12465	By-Pass Metering Jet (Economizer)	(VAR)
P-12680	Choke Tube Holder with Screw (Complete)	
‡P-11561	Choke Tube Clamp	
‡P-12868	Choke Tube Clamp Screw	
‡P-8806	Choke Tube Clamp Screw Nut	
P-12780	Main Gas Channel Plug	
P-12780	Pump Discharge Nozzles Channel Plugs	
P-12912	Float with Lever	
P-12944	Main Discharge Jet Channel Plugs	
P-12958	Strainer	
P-13170	Fuemer Body Cover	
P-13171	Fuemer Body Gasket	
*P-13395	Main Metering Jets	(VAR)
P-13564	Economizer Needle Valve (Complete)	
P-13964	Vacuum Piston Sleeve Gasket	
P-14196	Idling Needle Valves	
*P-14332	Main Discharge Jets	(VAR)
*P-14334	High Speed Bleeders	(VAR)
P-14338	Vacuum Piston Sleeve	
P-14341	Vacuum Piston and Link	
P-14344	Vacuum Piston Spring	
P-14355	Pump Piston Spring	
P-14364	Main Discharge Jet Gaskets	
P-14374	Pump Discharge Channel Plug	
P-14374	Pump Gas Channel Plug	
P-14475	Pump Piston and Sleeve (Complete)	
P-14583	Vacuum Piston Spring Cup	
P-14616	Vacuum Piston Sleeve Dust Cap	
P 14618	Large Venturi Tube Set Screws Nuts	
*P-14621	Large Venturi Tube (right)	(VAR)
P-14625	Pump Lever	
P-14632	Main Body Gasket	
P-14635	Throttle Gear with Stem (left) (1 Complete)	
‡P-14650	Throttle Synchronizing Lever Spring	
‡P-14649	Throttle Synchronizing Lever Set Screw	
‡P-79	Throttle Gear Cotter Pin	
P-14636	Throttle Gear with Stem (right) (Complete)	
‡P-12788	Throttle Stop with Screws	
‡P-47	Throttle Stop Clamp Screws	
‡P-2267	Throttle Stop Set Screws	
P 14638	Pump Piston Valve	
P-14639	Large Venturi Tube Set Screws	
*P-14641	Large Venturi Tube (left)	(VAR)
P-14644	Idle Tubes with Holder	
P-14648	Pump Adjustment Screw Lock Nut	
P-14686	Main Discharge Retainer Plug Washers	
P 14768	Idling Needle Valve Spring	
*P-14786	Pump Discharge Nozzles	(VAR)
P-14817	Pump Piston Sleeve Washer	
P-14834	Pump Piston Link Washer Spring	
P-15174	Pump Piston Spring Rivet	
P 15332	Choke Valve (Complete)	
‡P-15328	Choke Valve	
‡P-15329	Choke Valve Plate	
‡P-15844	Choke Valve Plate Spring	
‡P 15331	Choke Valve Pin	
‡P-15266	Choke Valve Bushing	
‡P-8344	Choke Valve Open Washer	
P-15335	Choke Lever with Stem	
‡P-12867	Choke Wire Clamp Screw	
P 15336	Air Horn	
P-15337	Air Horn with Valve (Complete)	
P-15342	Air Horn Gasket	
P-15343	Air Horn Gasket	
P-15346	Choke Tube Holder Attach Screw Lock Washer	
P-15390	Cotter Pin	
*P-15432	Main Gas Reducers	(VAR)
P-15437	Float Chamber Vent Screen	
P 15438	Float Chamber Vent Hex Nut	
P-15439	Float Chamber Vent Stud	
P-15440	Float Chamber Vent Screen Cap (Upper)	
P-15441	Float Chamber Vent Screen Cap (Lower)	
P-15454	Float Chamber Vent (Complete)	
P-15554	Air Horn Attaching Screws	
P-15616	Throttle Return Spring	
P-15672	Float Chamber Cover	
P-15673	Float Chamber Cover (Complete)	
P-15739	Economizer Needle Push Rod	
*P-15863	Main Body	(VAR)
P-15882	Vacuum Piston Felt Washer	
P-15938	Pump Adjustment Screw	
P-16036	Main Discharge Jet Tubes	
P-16037	Main Discharge Jet Retainer Plugs	
P-16579	Float Chamber Vent Bushing	
P-17413	Float Needle Valve and Seat	
P-20235	Strainer Body Plug Gasket	

J-4207-G DD 3 Complete Gasket Set

*NOTE On parts marked (VAR) size must be specified when ordering

STANDARD SPECIFICATION

A-13753 DD-3 Carburetor

P-5436	Throttle Valves (22°)
P-12465	045 By Pass Jet
P-13395	030' Meter Jet
P-14332	Main Disch Jet
P-14334	No 65 H S Bleeder
P-14621	1⅛' Venturi (Right)
P-14641	1⅛" Venturi (Left)
P-14644	Idle Tube 70 Feed Hole
P-14786	No 66 Pump Disch Nozzle
P-15432	048 Aux Meter Jet
P-15863	Main Body with No 53-65 Idle Holes

STANDARD SETTINGS FOR DD-3 CARBURETORS

Throttle Valve Location Upper idle hole to be exposed 040 plus or minus 004 with valve closed—(No 64 drill go and No 57 drill no gauge)

Pump Capacity 20 c c per 10 strokes

Pump Travel 33/64

PARTS AND SETTINGS EXCEPTIONS MODEL DD-3 STANDARD CARBURETOR

(Passenger Cars)

CHRYSLER MODEL 'C G , "C H", 'C L" (1930-'31-'32) (306819)

3½"x5' —8-Cylinder

A-14093 DD-3 Carburetor

Std Part No	Special Part	Used on Above Model Car
P-11566	P-10344	Float Fulcrum Pin
P-12465	P-12465	040 By-Pass Jet
P-13395	P-13395	Blank Metering Jet
P-14334	P-14334	No 70 H S Bleeder
P-15432	P-16362	056 Aux Metering Jet
P-15863	P-16053	Main Body No 53 65 Idle Holes
P-16036	P-16528	Main Discharge Jet Plug Tube
None Shown	P-16714	Metering Jet Channel Plug

HUPP "H" AND "U" 1929-30-31-32-33 (74427)

3½x4¾"—8-Cylinder Engine

A-13803 DD-3 Carburetor (Economizer Omitted)

Std Part No	Special Part	Used on Above Model Car
P-4522	P-14836	Choke Valve Screws
P-12465	P-12465	Blank By-Pass Jet
P-12680	P-12823	Choke Tube Holder
P-13395	P-13395	062 Main Metering Jets
P-14334	P-14334	No 70 High Speed Bleeder
P-14483	P-14818	Main Discharge Jet
P-14621	P-14621	13/16 Venturi (Right)
P-14641	P-14641	13/16 Venturi (Right)
P-14786	P-14786	No 68 Pump Discharge Nozzle
P-15335	P-14653	Choke Lever and Stem
P-15336	P-14626	Air Horn (Casting)
P-15337	P-14630	Air Horn (Complete)
P-15382	P-14629	Choke Valve
P-15616	P-14647	Throttle Gear Torsion Spring
P-15863	P-15743	Main Body No 53-65 Idle Cars
P-16037	P-14335	Main Discharge Jet Plugs
None Shown	P-14656	Choke Valve Plate

NOTE Pump Capacity 28 c c per 10 Strokes

LINCOLN "8"—1931-32 (K 2150)

3½"x5 —8-Cylinder

No A-14813—DD-3 Carburetor (Code No 40-10)

Std Part No	Special Part	Used on Above Model Car
P-26	P-15888	Float Cover Pipe Plug
P-2475	P-15892	Float Cover Attach Screws
P-3157	P-6664	Screw Plug
P-6406	P-15887	Screw Plug
P-7414	P-15433	Pump Lever Fulcrum Screw
P-11531	P-15920	Tube Holder Attach Screws
P-11742	P-15891	Fumer Cover Attach Screw
P-12356	P-15890	Strainer Plug
P-12465	P-15927	046 By-Pass Jet
P-12606	P-6668	Fumer Plate Attach Screw Lock Washer
P-12680	P-16056	Tube Holder
P-12686	P-15917	Name Plate
P-12780	P-15885	Screw Plug
P-12944	P-15889	Main Jet Hex Hd Plugs
P-13170	P-15883	Fumer Plate
P-13395	P-15926	030 Main Metering Jet
P-14196	P-15923	Idle Needle Valve
P-14334	P-14334	No 70 H S Bleeder
P-14338	P-15918	Econ Piston Sleeve
P-14374	P-15886	Screw Plug
P-14616	P-15919	Econ Piston Sleeve Dust Cap
P-14618	P-15907	Venturi Set Screw Nut
P-14618	P-15744	Venturi Set Screw Nut
P-14635	P-15911	Thro Gear and Stem (Left)
P-14636	P-15912	Thro Gear and Stem (Right)
P-14639	P-15746	Venturi Set Screw
P-14644	P-15928	Idle Tube
P-14648	P-15906	Pump Adj Screw Nut
P-14768	P-15916	Idle Needle Valve Spring
P-14786	P-14786	No 68 Pump Discharge Nozzle
P-15335	P-15848	Choke Lever
	P-16029	Choke Stem
P-15336	P-15980	Air Horn (casting)
P-15337	P-16050	Air Horn (complete)
P-15432	P-15432	044 Aux Metering Jet
P-15554	P-15894	Air Horn Attach Screw
P-15616	P-15745	Thro Gear and Stem Helical Spring
P-15673	P-15903	Float Chamber Cover
P-15938	P-15898	Pump Adj Screw
P-16036	P-16528	Main Discharge Jet Tubes
None Shown	P-16039	Choke Stem Lever Spring
None Shown	P-16850	Choke Stem Lever Pin
None Shown	P-15436	Fulcrum Screw (Fill Hd Lock Screw)
None Shown	P-15884	Screw Plug
None Shown	P-16030	Choke Stem Lever Bushing

NOTE Pump Capacity 25 c c per 10 Strokes

LINCOLN '12" 1932 (K-2150-B)

3¼" x 4½"—12 Cyl

No A-16143—DD-3 Carburetor (Code No 40-8)

Std Part No	Special Part	Used on Above Model Car
P-26	P-15888	Pipe Plug
P-2475	P-15892	Float Chamber Cover Screw
P-5436	P-5436	Throttle Valve 22°
P-7414	P-15433	Pump Fulcrum Screw
P-11531	P-15920	Choke Tube Holder Attaching Screw
P-11724	P-15891	Fuemer Cover Screw
P-12356	P-15890	Strainer Plug
P-12465	P-15927	By-Pass Jet 046
P-12606	P-6668	Fuemer Cover Screw Lockwasher
P-12680	P-16056	Choke Tube Holder
P-13170	P-15883	Fuemer Cover
P-13395	P-15926	Metering Jet (Blank)
P-14196	P-15923	Idle Needle Valve
P-14334	P-14334	High Speed Bleeder No 60
P-14338	P-15918	Economizer Piston Sleeve
P-14616	P-15919	Economizer Piston Sleeve Cap
P-14618	P-15907	Venturi Set Screw Nut
P-14635	P-15911	Throttle Gear and Stem (Left)
P-14636	P-15912	Throttle Gear and Stem (Right)
P-14644	P-15928	Idle Tube
P-14648	P-15906	Pump Adjustment Screw Lockwasher
P 14768	P-15916	Idle Needle Valve Spring
P-14786	P-14786	Pump Discharge Nozzle No 68
P-15335	P-16029	Choke Lever & Stem
P-15336	P-15980	Air Horn
P-15432	P-16362	Auxiliary Metering Jet 058'
P-15554	P-15894	Air Horn Attaching Screw
P-15616	P-15745	Throttle Gear Spring
P-15673	P-15903	Float Chamber Cover
P-15889	P-12944	Main Discharge Jet Plug
P-15938	P-15898	Pump Adjustment Screw
None Shown	P-15746	Venturi Set Screw
None Shown	P-15744	Venturi Set Screw Nut
None Shown	P-15848	Choke Lever
None Shown	P-16030	Choke Lever Stem Bushing
None Shown	P-16039	Choke Lever Stem Spring
None Shown	P-15850	Choke Lever Pin

NOTE Throttle Valve Exposure 046 plus or minus 004 or No 58 Drill go No 56 no go gauge

NOTE Pump Capacity 22 c c per 10 Strokes

FARGO BUS 1931 MODEL "90 AND 91"

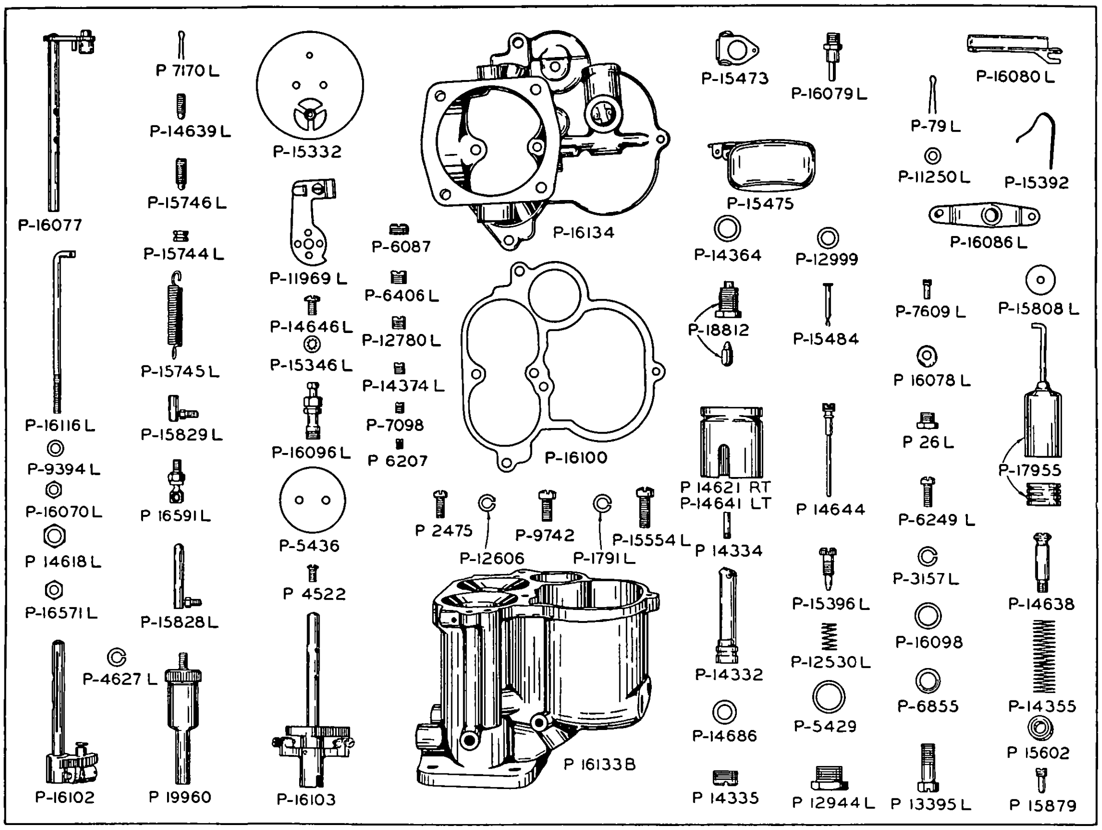
3½"x5' 8 Cyl

A-15513 DD 3 Carburetor

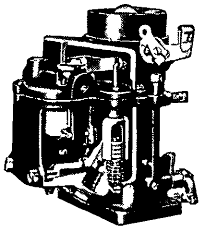
Std Part No	Special Part	Used in Above Model Truck
P-12465	P-12465	034' By Pass Jet
P-14621	P-14621	1' Venturi (Right)
P-14641	P-14641	1 Venturi (Left)
P-15863	P-16053	Main Body with No 53-65 Idle Holes
P-16036	P-16528	M D Jet Tubes
P-16362	P-16362	040' Aux Met Jet

NOTE Pump Capacity 16 cc per 10 Strokes

Printed in United States of America



DDR-3
N . A-14883
1½" DUAL CARB



Notes and References.

Car models having this carburetor with parts exceptions therefor are shown on back of this page

†These parts not illustrated

‡Indicates Sub-assembly part

PARTS LIST STROMBERG MODEL "DDR-3" CARBURETOR (as used on Marmon 1931 "DD")

P-26L	Float Chamber Drain Plug	
P-79L	Throttle Gear Adj Screw Cotter Pin	
P-2475	Float Chamber Cover Screw	
P-3157	Air Horn Attach Screw Lockwasher	
P-4522	Throttle Valve Attaching Screw	
P-4522	Choke Valve Attaching Screw	
P-4627L	Pump Rod Adj Nut Lockwasher	
P-5429	Main Dis Jet Plug Gasket . ..	
*P-5436	Throttle Valve	(VAR)
P-6207L	Idle Air Bleed Channel Plug	
P-6249L	Float Chamber Cover Screw	
P-6406L	Idle Chan Plug	
P-6668	Float Chamber Cover Att Screw Lockwasher	
P-6855	Main Metering Jet and By-Pass Jet Gasket	
P-7098L	Idle Channel Plug	
P-7170L	Pump Rod Cotter Pin	
P-7609L	Choke Stem Collar Screw	
P-9394L	Pump Rod Washer	
P-9742	Air Horn Attaching Screw	
P-10750L	Throttle Check Valve Ball Joint Lock Nut	
P-11250	Pump Lever Fulcrum Pin Washer	
P-11969L	Choke Tube Holder	
‡P-11561L	Choke Tube Clamp	
‡P-12868L	Choke Tube Clamp Screw	
‡P-8806L	Choke Tube Clamp Screw Nut	
P-12530L	Idle Needle Valve Spring	
P-12780L	Pump Dis Channel Plug	
P-12944L	Main Dis Jet Plug	
P-12999	Air Horn Attach Screw Gasket	
*P-13395L	Main Metering Jet	(VAR)
*P-14332	Main Discharge Jet	(VAR)
‡P-14346	Main Disch Jet Lead Plug	
‡P-6207	Main Disch Jet Screw Plug	
*P-14334	High Speed Bleeder Jet	(VAR)
P-14335	Main Dis Jet Channel Plug	
P-14355	Pump Piston Spring	
P-14364	Main Dis Jet and Fl Needle Seat Gasket	
P-14364	Float Needle Seat Gasket	
P-14374L	Econ Chan Idle Chan Idle Tube Chan Pump Chan Plug	
P-14618L	Venturi Set Screw Lock Nut (Right)	
*P-14621	Venturi (Right)	(VAR)
P-14638	Pump Valve	
P-14639L	Venturi Set Screw (Right)	
*P-14641	Venturi (Left)	(VAR)
P-14644	Idle Tube	
P-14646L	Choke Tube Attaching Screw	
P-14686	Main Discharge Jet Washer	
*P-14786	Pump Discharge Jet	(VAR)
P-15332	Choke Valve	
P-15346L	Choke Tube Attaching Screw Lockwasher	
P-15390L	Pump Lev Fulcrum Pin and Pump Rod Block Cotter Pin	
P-15392	Pump Lever Spring	
P-15396L	Idle Needle Valve	
*P-15405	By-Pass Jet	(VAR.)
P-15456L	Idle Adj Screw	
P-15473	Float Hanger	
P-15475	Float	
P-15479	Vacuum Economizer Pump	
P-15484	Float Fulcrum Pin	
P-15554L	Air Horn Attaching Screw .	
P-15602	Pump Piston Spring Cup	
P-15744L	Venturi Set Screw Lock Nut (Left)	
P-15745L	Throttle Return Spring	
P-15746L	Venturi Set Screw (Left)	
P-15808L	Pump Link Washer	
P-15828L	Throttle Check Piston Valve Ball Joint (Lower)	
P-15829L	Throttle Check Piston Valve Ball Joint (Upper)	
P-15831L	Idle Adj Screw Spring	
P-16070L	Pump Rod Adj Nut	
P-16077	Choke Lever and Stem	
‡P-10981L	Choke Wire Clamp Screw	
P-16078L	Choke Stem Collar	
P-16079L	Pump Lever Fulcrum Pin	
P-16080L	Pump Arm Lever	
P-16086L	Pump Lever	
P-16089	Pump Adj Valve Packing	
P-16090L	Pump Adj Valve Packing Nut	
P-16094L	Pump Adj Needle Valve	
P-16095L	Pump Adj Needle Valve Seat	
P-16098	Float Hanger Spacer Bushing	
P-16099	Float Hanger Pin	
P-16100	Main Body Gasket	
†P-16101	Air Horn (Complete)	
P-16102	Throttle Gear and Stem (Left)	
‡P-14637	Throttle Synchronizing Lever	
‡P-9745	Throttle Synchronizing Lever Taper Pin	
‡P-14650	Throttle Synchronizing Lever Spring	
‡P-14649	Throttle Synchronizing Lever Set Screw	
‡P-16707	Throttle Synchronizing Lever Screw Nut	
‡P-12167	Throttle Synchronizing Lever Screw Nut Lockwasher	
P-16103	Throttle Gear and Stem (Right)	
‡P-2267L	Throttle Idle Adj Screw	
‡P-47L	Throttle Idle Adj Screw Clamp Screw	
‡P-9745	Throttle Gear Taper Pin	
P-16116L	Pump Rod	
P-16118L	Pump Rod Block	
*P-16133B	Main Body	(VAR)
P-16134	Air Horn	
P-17955	Pump Piston and Sleeve	
P-18811	Float Needle Valve and Seat	
P-19960	Throttle Check Piston and Valve Assembly	
‡P-15825L	Throttle Check Piston Valve Sleeve	
‡P-15826L	Throttle Check Piston Valve Nut	
‡P-15833L	Throttle Check Piston Valve	

J-4208-G DDR 3 Complete Gasket Set

*NOTE On parts marked (VAR) size must be specified when ordering

STANDARD SPECIFICATION

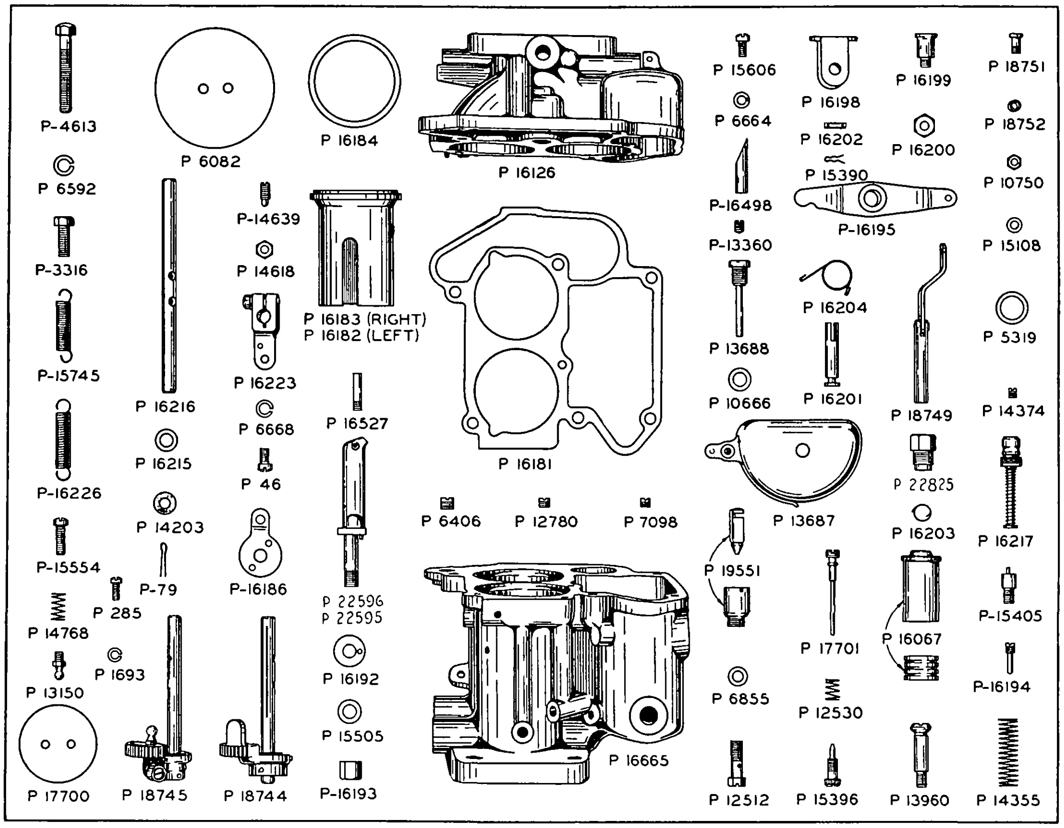
MARMON 1931 "DD" (DD-510)
3⅛"x4" 16 Cyl.

A-14883 DDR-3 Carburetor

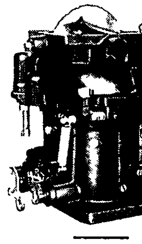
P 5436	Thro Valve (22°)
P-13395-L	050 Meter Jet
P-14332	No 33 Main Dis Jet
P-14334	No 70 H S Bleeder
P-14621	1$\frac{1}{32}$" Venturi (Right)
P-14641	1$\frac{1}{32}$' Venturi (Left)
P-14644	Idle Tube, No 70 Feed Hole
P-15879	No 66 Pump Disch Nozzle
P-16133-B	Main Body with No 53-65 Idle Holes

STANDARD SETTINGS FOR DDR-3 CARBURETOR

Thro Valve Location Exposure of upper idle hole with Thro valve fully closed to be 041 plus or minus 004 or (No 63 drill go and No 56 drill no go gauge)
Syringe Pump Travel ¾"
Pump Capacity 25 c c per 10 Strokes



DDR-5
N . A-16045
2" DUAL CARB



Notes and References Car models having this carburetor with parts exceptions therefor are shown on back of this page

†These parts not illustrated

‡Indicates Sub-assembly part

PARTS LIST STROMBERG "DDR-5" CARBURETOR (as used on G. M. Truck 1932 "Z-250")

Part No	Name	
P-46	Throttle Lever Attach Screw	
P-79	Throttle Gear Adj Screw Cotter Pin	
P-285	Choke Valve Screw	
P-285	Throttle Valve Screw	
P-1693	Choke Valve Screw Lockwasher	
P-1693	Throttle Valve Screw Lockwasher	
P-3316	Air Horn Attach Screw	
P-5319	Float Needle Valve Seat Gasket	
P-6082	Choke Valve	
†P-6387	Vac Suction Channel Plug	
P-6406	Idle Chan Plug	
P-6592	Air Horn Attach Screw Lockwasher	
P-6664	Pump Lever Bracket Screw Lockwasher	
P-6668	Throttle Lever Attach Screw Lockwasher	
P-6855	Main Metering Jet Gasket	
P-6877	Air Horn Attach Screw	
P-7098	Idle Channel Plug	
P-9891	Pump Lever Ful Screw Lockwasher	
P-10666	Float Fulcrum Screw Gasket	
P-10750	Pump Link Nut	
*P-12512	Main Metering Jet	(VAR)
P-12530	Idle Needle Valve and Idle Adj Screw Spring	
P-12780	Pump Disch Channel Plug	
P-13150	Throttle Lever Ball Joint	
P-13360	Fl Ch Vent Tube Set Screw	
P-13687	Float	
P-13688	Float Fulcrum Screw	
P-13960	Pump Valve	(VAR)
P-14203	Throttle Stem Packing	
P-14355	Pump Valve Spring	
P-14374	Econ Chan Idle Chan Idle Tube Chan Pump Chan	
P-14618	Venturi Set Screw Lock Nut	
P-14639	Venturi Set Screw	
P-15108	Pump Link Washer	
P-15390	Pump Link Cotter Pin	
P-15396	Idle Needle Valve	
*P-15405	By-Pass Jet	(VAR)
P-15505	Main Discharge Jet Nut Gasket	
P-15554	Idle Adj Screw	
P-15606	Pump Lever Bracket Screw	
P-15745	Throttle Return Spring	
P-16067	Pump Sleeve and Piston	
P-16126	Air Horn	
P-16181	Main Body Gasket	
*P-16182	Venturi (Left)	(VAR)
*P-16183	Venturi (Right)	(VAR)
P-16184	Venturi Gasket	
P-16186	Throttle Lever	
P-16192	Main Discharge Jet Gasket	
P-16193	Main Discharge Jet Nut	
*P-16194	Pump Discharge Jet	(VAR)
P-16195	Pump Lever	
P-16198	Pump Lever Bracket	
P-16199	Pump Lever Fulcrum Screw	
P-16200	Pump Link Fulcrum Screw Nut	
P-16201	Pump Sleeve Link	
P-16202	Pump Link Fulcrum Pin	
P-16203	Pump Sleeve Spring	
P-16204	Pump Lever Spring	
P-16215	Throttle Stem Packing Washer	
P-16216	Choke Stem	
P-16217	Vacuum Economizer	
P-16223	Choke Lever	
‡P 22375	Choke Lever Clamp Screw	
‡P 6664	Choke Lever Clamp Screw Lockwasher	
P-16226	Choke Lever Return Spring	
†P-16227	Air Horn (Complete)	
P-16498	Fl Ch Vent Tube	
*P-16527	High Speed Bleeder Jet	(VAR)
P-16665	Main Body	
‡P-14997	Throttle Stem Bushing	
*P-17700	Throttle Valve	(VAR)
P-17701	Idle Tube Jet	
P-18744	Throttle Gear and Stem (Right)	
‡P-16189	Throttle Stem	
‡P-9745	Throttle Gear Taper Pin	
P-18745	Thro Gear and Stem (Left)	
‡P-16189	Throttle Stem	
‡P-16185	Throttle Synchronizing Lever	
‡P-9745	Throttle Synchronizing Lever Taper Pin	
‡P-14650	Throttle Synchronizing Lever Spring	
‡P-14649	Throttle Synchronizing Lever Set Screw	
‡P-13150	Throttle Gear Ball Joint	
P-18749	Push Rod with Link	
P-18751	Pump Link Fulcrum Screw	
P 18752	Pump Bushing	
P-19551	Float Needle Valve and Seat	
P 22595	Main Discharge Jet (Left)	
P-22596	Main Discharge Jet (Right)	
P-22825	Pump Push Rod Sleeve	

NOTE When replacing old style die cast or brass gears with new style (steel gears set in die cast) it is necessary to replace the following parts

1—P-10750	Nut
1—P-18744	Gear and Stem
1—P-18745	Gear and Stem
1—P-18749	Push Rod and Link
1—P-18751	Fulcrum Screw
1—P-18752	Bushing

J-4382-G DDR-5 Complete Gasket Set

*NOTE On parts marked (VAR) size must be specified when ordering

STANDARD SPECIFICATIONS

GENERAL MOTORS TRUCK (052369)
1932 MODEL Z-250
A-16045 DDR-5 Carburetor (Code No 23-1)
5 x6" 6 Cyl

P-12512	079' Meter Jet
P-13960	Pump Valve with 2 No 50 Holes
P-15405	080 By Pass Jet
P-16182	1½' Venturi (Left)
P-16183	1½' Venturi (Right)
P-16194	No 52 Pump Disch
P-16527	No 68 H S Bleeder
P-16665	Main Body with No 52-64 Idle Holes
P-17700	20° Throttle Valve
P-17701	Idle Tube No 64 Feed Hole
P-22595	No 34 Main Dis Jet
P 22596	No 34 Main Dis Jet

STANDARD SETTINGS FOR DDR-5 CARBURETORS

Throttle Valve Location Upper lip of throttle valve to be flush plus or minus 002 with lower part of upper idle hole

Pump Capacity 44 to 54 c c per 10 Strokes

Syringe Pump To have 9/16 travel when Thro valve is half open

PARTS AND SETTINGS EXCEPTIONS MODEL DDR-5 STANDARD CARBURETOR
(Trucks)

GENERAL MOTORS TRUCK 1931—MODEL "T-85" (052003)
4¼'x5½—6 Cylinder Own (468) Motor, A-14065 DDR-5 Carburetor

Std Part No	Special Part No	Used on Above Model Truck
P-12512	**P-15384**	070 Main Metering Jet
P-15405	**P-15405**	040 By-Pass Jet
P-16126	**P-16616**	Air Horn (casting)
P-16194	**P-16194**	No 55 Pump Discharge Nozzle
P-16227	**P-16600**	Air Horn (complete)
P-16498	**P-15454**	Float Chamber Cover Vent
P-16665	**P-16125**	Main Body, No 54-64 Idle Holes
P-17700	**P-6004**	(20°) Thro Valve
P-17701	**P-16381**	Idle Tube No 66 Feed Hole
P-22595	**P-22591**	No 33 Main Discharge Jet (Left)
P-22596	**P-22592**	No 33 Main Discharge Jet (Right)
None Shown	**P-16096**	Pump Adj Valve
None Shown	**P-6404**	Float Cover Vent Plug

GENERAL MOTORS TRUCK 1931 MODEL "T-95" (052092)
4½ x5½"—6 Cylinder Own (525) Engine, A-15555 DDR-5 Carburetor

Std Part No	Special Part No	Used on Above Model Truck
P-12512	**P-15384**	068 Main Metering Jet
P-15405	**P-15405**	056" By-Pass Jet
P-16498	**P-15454**	Float Chamber Cover Vent
P-16126	**P-16616**	Air Horn (casting)
P-16194	**P-16194**	No 55 Pump Discharge Nozzle
P-16227	**P-16600**	Air Horn (Complete)
P-16665	**P-16125**	Main Body No 54 64 Idle Holes
P-17700	**P-6004**	(20°) Thro Valve
P-17701	**P-16381**	Idle Tube No 66 Feed Hole
P-22595	**P-22591**	No 33 Main Discharge Jet (Left)
P-22596	**P-22592**	No 33 Main Discharge Jet (Right)
None Shown	**P-16096**	Pump Adj Valve
None Shown	**P-6406**	Air Horn Vent Plug

GENERAL MOTORS TRUCK 1931-32 (052139)
Models "T-85", "T-95", "T-96"
4⅞"x5½"—6-Cylinder Own (468) Engine
A-15595 DDR-5 (Code No 23-2)

Std Part No	Special Part No	Used on Above Model Truck
P-12512	**P-15384**	070 Main Metering Jet
P-15405	**P-15405**	040 By-Pass Jet
P-16182	**P-16182**	1⅜' Venturi (Left)
P-16183	**P-16183**	1⅜" Venturi (Right)
P-16194	**P-17901**	No 52 Pump Discharge Nozzle
P-16227	**P-16648**	Air Horn (complete)
P-16498	**P-16499**	Float Chamber Vent Tube
P-16665	**P-16665**	Main Body No 53-64 Idle Holes
P-17701	**P-16672**	Idle Tube No 62 Feed Hole
P 22595	**P-22593**	No 42 Main Discharge Jet (Left)
P-22596	**P-22594**	No 42 Main Discharge Jet (Right)

NOTE Pump Capacity 65 c c per 10 Strokes

GENERAL MOTORS TRUCK 1931 (052138)
Models "T-85", "T-95", "T-96"
4¼"x5½'—6 Cylinder Own (468) Engine
A-15605—DDR-5 Carburetor

Std Part No	Special Part No	Used on Above Model Truck
P-12512	**P-15384**	076 Main Metering Jet
P-15405	**P-15405**	040 By Pass Jet
P-16194	**P-16194**	No 55 Pump Discharge Nozzle
P-16227	**P-16648**	Air Horn (complete)
P-16498	**P-16499**	Float Chamber Vent Tube
P-16665	**P-16665**	Main Body No 53-64 Idle Holes
P-17700	**P-6004**	(20°) Thro Valve
P-17701	**P-16672**	Idle Tube No 62 Feed Hole
P-22595	**P-22593**	No 42 Main Discharge Jet (Left)
P-22596	**P-22594**	No 42 Main Discharge Jet (Right)

NOTE Pump Capacity 65 c c per 10 Strokes

GENERAL MOTORS TRUCK 1931 MODEL "T-100 AND T-110" (052093)
4⅞"x5½ —6-Cylinder Own (616) Engine
A-15635 DDR 5 Carburetor

Std Part No	Special Part No	Used on Above Model Truck
P-12512	**P-15384**	068 Main Metering Jet
P-15405	**P-15405**	064 By-Pass Jet
P-16126	**P-16616**	Air Horn (casting)
P-16227	**P-16600**	Air Horn (complete)
P-16498	**P-15454**	Float Chamber Cover Vent
P-16665	**P-16125**	Main Body No 54-64 Idle Holes
P-17701	**P-16381**	Idle Tube No 66 Feed Hole
P-17700	**P-6004**	(20°) Thro Valve
P-22595	**P-22591**	No 33 Main Discharge Jet (Left)
P-22596	**P-22592**	No 33 Main Discharge Jet (Right)
None Shown	**P-16096**	Pump Adj Valve
None Shown	**P-16344**	Pump Washer
None Shown	**P-16203**	Pump Spring
None Shown	**P-6406**	Air Horn Vent Plug

GENERAL MOTORS TRUCK 1931 (052188)
Model "T-85", "T-95", "T-96"
5"x6 —6 Cylinder Own (707) Engine
A-15655 DDR-5 Carburetor (Code No 23-3)

Std Part No.	Special Part No	Used on Above Model Truck
P-12512	**P-15384**	074 Main Metering Jet
P-15405	**P-15405**	042 By-Pass Jet
P-16126	**P-16616**	Air Horn (casting)
P-16182	**P-16182**	1 9/16 Venturi (Left)
P-16183	**P-16183**	1 9/16 Venturi (Right)
P-16227	**P-16600**	Air Horn (complete)
P-16498	**P-15454**	Float Chamber Cover Vent
P-16527	**P-16527**	No 54 H S Bleeder
P-16665	**P-20291**	Main Body No 52-64 Idle Holes
P-17700	**P-6004**	(20°) Thro Valve
P-17701	**P-16381**	Idle Tube No 66 Feed Hole
None Shown	**P-6406**	Air Horn Vent Plug

GENERAL MOTORS TRUCK 1934 (053032)
A-17585 DDR 5 Carburetor (Code No 23-5)

Std Part No.	Special Part No	Used on Above Model Truck
P-12512	**P-12512**	082 Met Jet
P-15405	**P-15405**	082 By Pass Jet
P-17700	**P-17700**	Spec Thro Valve with No 45 Hole
P 22595	**P-22593**	No 42 Main Disch Jet (Left)
P 22596	**P-22594**	No 42 Main Disch Jet (Right)

GENERAL MOTORS TRUCK "V-225" 1932 (052406)
4½"x5½" 6 Cyl
A-16815 DDR-5 Carburetor (Code No 23-4)

Std Part No	Part Used on Above Model	
P-12512	**P-12512**	072 Metering Jet
P-15405	**P-15405**	064 By Pass Jet
P-16182	**P-16182**	1⅜ Venturi (Left)
P-16183	**P-16183**	1⅜' Venturi (Right)
P-16194	**P-17901**	No 52 Pump Nozzle
P-22595	**P-22593**	No 42 Main Disch Jet
P 22596	**P-22594**	No 42 Main Disch Jet

GENERAL MOTORS 1934 TRUCK (053026)
4¼"x5½"—6 Cylinder
A-17605 DDR-5 Carburetor (Code No 23-13)

Std Part No	Special Part No	Used on Above Model Truck
P-12512	**P-15384**	067 Main Metering Jet
P-15405	**P-15405**	048 By-Pass Jet
P-16194	**P-17901**	No 52 Pump Discharge Nozzle
P-16227	**P-16648**	Air Horn (complete)
P-16498	**P-16499**	Air Horn Vent Cap
P-16527	**P-16527**	No 60 H S Bleeder
P-22595	**P-22589**	No 38 Main Discharge Jet (Left)
P 22596	**P-22590**	No 38 Main Discharge Jet (Right)

PARTS AND SETTINGS EXCEPTIONS MODEL DDR-5 STANDARD CARBURETOR
ADDITIONAL

General Motors Truck 1936 Model "719",
"740" First and Third Series. "742"
First Series, First 35 Coaches (053959).
5"x6" 6 Cyl. Own "707" Engine.

A-17635 DDR-5 Carburetor (Code No. 23-39-A)

Std. Part No.	Special Part No.	Used on Above Model Truck
P-285	P-22399	Choke Valve Attaching Screw
P-6082	P-22400	Choke Valve Assy.
P-12512	P-15384	.074 Metering Jet
P-14997	P-22013	Throttle Stem Bushing (Short)
P-14997	P-22014	Throttle Stem Bushing (Long)
P-15405	P-15405	.066 By-pass Jet
P-16126	P-22098	Air Horn
P-16216	P-22538	Choke Lever and Stem Assy.
P-16223	P-22371	Choke Lever Assy. (Manual Choke)
P-16227	P-22097	Air Horn and Valve Assy.
P-16665	P-16665	Main Body with No. 52-56 Idle Holes
P-17700	P-22532	Throttle Valve
P-22595	P-22541	No. 34 Main Discharge Jet (Left)
P-22596	P-22540	No. 34 Main Discharge Jet (Right)
None Shown	P-16639	Choke Valve Attaching Screw Lock Nut
None Shown	P-22329	Choke Valve Stop Pin
None Shown	P-21700	Choke Valve Stop Pin Boss Lead Ball
None Shown	P-6877	Air Horn Attaching Cap Screw

General Motors Truck 1936 Model "720", -
"734", "720" Second Series Coach (069438)
5"x6" -- 6 Cyl. Own (707) Motor

A-17655 DDR-5 Carburetor (Code No. 23-45)

Std. Part No.	Special Part No.	Used on Above Model Truck
P-285	P-22399	Choke Valve Attaching Screw
P-6082	P-22400	Choke Valve Assy.
P-12512	P-15384	.064 Metering Jet.
P-14997	P-22013	Throttle Stem Bushing (Short)
P-14997	P-22014	Throttle Stem Bushing (Long)
P-15405	P-15405	.046 By-pass Jet
P-16126	P-22098	Air Horn
P-23689	P-23689	1-3/8" Venturi Tube (Left)
P-23690	P-23690	1-3/8" Venturi Tube (Right)
P-16194	P-17901	No. 52 Pump Discharge Nozzle
P-16216	P-22538	Choke Lever and Stem Assy.
P-16223	P-22371	Choke Lever Assy. (Manual Choke)
P-16227	P-22097	Air Horn and Valve Assy.
P-16665	P-16665	Main Body with No. 52-56 Idle Holes
P-17700	P-22532	Throttle Valve
P-17701	P-22843	Idle Tube No. 70 Feed Hole
P-22595	P-22541	No. 34 Main Discharge Jet (Left)
P-22596	P-22540	No. 34 Main Discharge Jet (Right)
None Shown	P-16639	Choke Valve Attaching Screw Lock Nut
None Shown	P-22329	Choke Valve Stop Pin
None Shown	P-21700	Choke Valve Stop Pin Boss Lead Ball
None Shown	P-6877	Air Horn Attaching Cap Screw

General Motors Truck 1937-38 Model "743"
Coach. First, Second and Third Series.
(069932)
5"x6" 6 Cyl. Own "707" Engine

A-17665 DDR-5 Carburetor (Code 23-57B)

Std. Part No.	Special Part No.	Used on Above Model Coach
P-285	P-22399	Screw -- Choke Valve Attaching Screw
P-3316	P-16879	Screw -- Air Horn Attaching
P-6082	P-23038	Choke Valve
P-9891	P-23017	Lockwasher - Fulcrum Screw

Continued A-17665 DDR-5 Carburetor

P-12512	P-15384	Main Metering Jet - .074"
P-12530	P-23162	Spring - Idle Needle Valve
P-13687	P-18056	Assembly -- Float with Lever
P-14768	P-23177	Spring -- Idle Adjusting Screw
P-15396	P-23161	Idle Needle Valve
P-15405	P-15405	By-pass Jet .066
P-15554	P-23024	Screw -- Idle Adjusting
P-16126	P-23113	Air Horn
P-16186	P-23090	Assembly Throttle Lever
P-16195	P-23009	Pump Lever with Bearing
P-16198	P-23015	Bracket -- Pump Lever
P-16199	P-23014	Screw -- Pump Lever Fulcrum
P-16223	P-22371	Assembly -- Choke Lever
P-16527	P-16179	High Speed Bleeder #68
P-16665	P-23003	Main Body #54-56 Idle Holes
P-17700	P-23180	Throttle Valve
P-17701	P-23045	Idle Tube with Holder
P-18744	P-23028	Throttle Gear & Stem (Right)
P-18745	P-23031	Throttle Gear & Stem (Left)
P-18749	P-23018	Push Rod with Link
P-18751	P-23016	Screw - Piston Link Fulcrum
P-19551	P-23044	Float Needle Valve & Seat
P-22595	P-22541	Main Discharge Jet (Left) #34
P-22596	P-22540	Main Discharge Jet (Right) #34
None Shown	P-8598	Felt Packing - Throttle Stem Seal
" "	P-13041	Screw - Cover Attaching
" "	P-13850	Spring - Throttle Stem Seal
" "	P-16089	Felt Packing - Slow Idle Adj. Screw
" "	P-16639	Locknut -- Choke Valve Att. Screw
" "	P-21411	Washer - Throttle Stem Seal
" "	P-22071	Gasket - Idle Tube
" "	P-22329	Pin - Choke Valve Stop
" "	P-23010	Pump Lever & Bushing
" "	P-23021	Screw - Push Rod Link Fulcrum
" "	P-23022	Nut - Packing -- Push Rod
" "	P-23023	Felt Packing
" "	P-23024	Oiler - Push Rod
" "	P-23036	Assy. - Choke Lever & Stem
" "	P-23040	Washer - Choke Stem Seal
" "	P-23041	Cover - Throttle Gear Box
" "	P-23042	Gasket - Throttle Gear Box
" "	P-23743	Nut - Throttle Stem

General Motors Truck 1937-38 Model
"732" Coach, First, Second, Third &
Fourth Series. "720" Third Series.
"735" First Series. (2050087)
5"x6" 6 - Cyl. Own "707" Engine

A-17675 DDR-5 Carburetor (Code 23-58)

Std. Part No.	Special Part No.	Used on Above Model Coach
P-285	P-22399	Screw - Choke Valve Attaching
P-6082	P-22400	Assembly - Choke Valve
P-12512	P-15384	Metering Jet .074"
P-15405	P-15405	By-pass Jet .056"
P-16126	P-22098	Air Horn
P-16223	P-22371	Assembly - Choke Lever
P-16665	P-16665	Main Body - #52-56 Idle Disch. Holes
P-17700	P-22532	Throttle Valve
P-17701	P-22843	Idle Tube With Holder
P-22595	P-22541	Main Discharge Jet (Left) #34
P-22596	P-22540	Main Discharge Jet (Right) #34
None Shown	P-22538	Assembly - Choke Lever & Stem

PARTS AND SETTINGS EXCEPTIONS MODEL DDR-5 STANDARD CARBURETOR

ADDITIONAL

General Motors Truck 1937-38 Model
"742" Parlor Car First Series After
35 Coaches. "742" Second Series.
(2050769)
5"x6" 6 Cyl. Own "707" Engine

A-17685 DDR-5 Carburetor (Code 23-62B)

Std. Part No.	Special Part No.	Used on Above Model
P-285	P-22399	Screw - Choke Valve Attaching
P-3316	P-16879	Screw - Air Horn Attaching
P-6082	P-23038	Assembly - Choke Valve
P-12512	P-15384	Metering Jet .074"
P-12530	P-23162	Spring - Idle Needle Valve
P-13687	P-18056	Assembly -- Float with Lever
P-14768	P-23177	Spring - Idle Adj. Screw
P-15396	P 23161	Valve - Idle Needle
P-15405	P-15405	By-Pass Jet .056
P-15554	P-23024	Screw - Idle Adjusting
P-16126	P-23113	Air Horn
P-16186	P-23090	Assembly - Throttle Lever
P-16195	P-23009	Assembly - Pump Lever with Bearing
P-16198	P-23015	Bracket - Pump Lever
P-16199	P-23014	Screw - Pump Lever Fulcrum
P-16223	P-22371	Assembly - Choke Lever
P-16665	P-23003	Main Body #54-56 Idle Disch. Holes
P-17700	P-23180	Throttle Valve
P-17701	P-23357	Idle Tube with Holder
P-18744	P-23028	Assy. - Throttle Gear & Stem (Right)
P-18745	P-23031	Assy. - Throttle Gear & Stem (Left)
P-18749	P-23018	Assy. - Push Rod with Link
P-18751	P-23021	Screw - Push Rod Link Fulcrum
P-19551	P-23044	Float Needle Valve & Seat
P-22595	P-22541	Main Discharge Jet (Left) #34
P-22596	P-22540	Main Discharge Jet (Right) #34
None Shown	P-13850	Spring - Throttle Stem Seal
" "	P-14427	Gasket - Float Needle Valve Seat
" "	P-15070	Felt Washer
" "	P-15344	Washer - Slow Idle Adj. Screw
" "	P-16089	Felt Packing - Idle Adj. Screw
" "	P-16639	Lock Nut - Choke Valve Att. Screw
" "	P-21411	Washer - Throttle Stem Seal
" "	P-22071	Gasket - Idle Tube
" "	P-22329	Pin - Choke Valve Stop
" "	P-23010	Assy. Pump Lever & Bushing
" "	P-23016	Screw - Piston Link Fulcrum
" "	P-23017	Lockwasher - Piston Link Fulcrum Screw
" "	P-23022	Nut - Packing - Push Rod
" "	P-23023	Felt Packing
" "	P-23036	Assembly Choke Lever & Stem
" "	P 23040	Washer - Choke Stem Seal
" "	P-23041	Cover - Throttle Gear Box
" "	P-23042	Gasket - Throttle Gear Box
" "	P-23043	Oiler - Push Rod
" "	P-23743	Nut - Throttle Stem

General Motors Truck 1937-38 Model
"740"City Service, Second Series.
(2050768)
5"x6" 6 Cyl. Own "707" Engine

A-17695 DDR-5 Carburetor (Code 23-63-B)

Std. Part No.	Special Part No.	Used On Above Model
P-285	P-22399	Screw - Choke Valve Attaching
P-3316	P-16879	Screw - Air Horn Attaching
P-6082	P-23038	Assy. Choke Valve
P-12512	P-15384	Metering Jet .064
P-12530	P-23162	Spring - Idle Needle Valve
P-13687	P-18056	Assy. - Float with Lever
P-14768	P-23177	Spring - Idle Adj. Screw
P-15396	P-23161	Idle Needle Valve
P-15405	P-15405	By-Pass Jet .046
P-15554	P-23024	Screw - Idle Adjusting
P-16126	P-23113	Air Horn
P-23689	P-23689	Venturi Tube (Left) 1-3/8"
P-23690	P-23690	Venturi Tube (Right) 1-3/8"
P-16186	P-23090	Assy. - Throttle Lever
P-16195	P-23009	Assy. Pump Lever with Bearing
P-16198	P-23015	Bracket - Pump Lever
P-16199	P-23014	Screw - Pump Lever Fulcrum
P-16223	P-22371	Assy. - Choke Lever (Manual Choke)
P-16665	P-23003	Main Body - #54-56 Idle Disch. Holes
P-17700	P-23180	Throttle Valve
P-17701	P-23557	Idle Tube with Holder
P-18744	P-23028	Assy. - Throttle Gear & Stem (Right)
P-18745	P-23031	Assy. - Throttle Gear & Stem (Left)
P-18749	P-23018	Assy. - Push Rod with Link
P-18751	P-23021	Screw - Push Rod Link Fulcrum
P-19551	P-23044	Float Needle Valve & Seat
P-22595	P-22541	Main Discharge Jet (Left) #34
P-22596	P-22540	Main Discharge Jet (Right) #34
None Shown	P-8598	Felt Packing Throttle Stem Seal
" "	P-13041	Screw - Cover Attaching
" "	P-13850	Spring - Throttle Stem Seal
" "	P-15070	Washer - Felt
" "	P 15344	Washer - Slow Idle Adj. Screw
" "	P-16089	Felt Packing - Slow Idle Adj. Screw
" "	P-16639	Locknut - Choke Valve Attaching Screw
" "	P-21411	Washer - Throttle Stem Seal
" "	P-22071	Gasket - Idle Tube
" "	P-22329	Pin - Choke Valve Stop
" "	P-23010	Assy. - Pump Lever & Bushing
" "	P-23016	Screw - Piston Link Fulcrum
" "	P-23017	Lockwasher - Piston Link Fulcrum
" "	P-23022	Nut - Packing - Push Rod
" "	P-23023	Felt - Packing
" "	P-23036	Assy. - Choke Lever & Stem
" "	P-23040	Washer - Choke Stem
" "	P-23041	Cover - Throttle Gear Box
" "	P-23042	Gasket - Throttle Gear Box
" "	P-23043	Oiler - Push Rod
" "	P-23743	Nut - Throttle Stem

General Motors Truck 1938 (2051381)
5"x6" 6 Cyl. Own "707" Engine

A-17715 DDR-5 Carburetor (Code 23-65)

Std. Part No.	Special Part No.	Used on Above Model
P-285	P-22399	Screw - Choke Valve Attaching
P-3316	P-16879	Screw - Air Horn Attaching
P-6082	P-23038	Assembly Choke Lever
P-12512	P-15384	Metering Jet .074"
P-12530	P-23162	Spring - Idle Needle Valve
P-13687	P-18056	Assy. - Float with Lever
P-14768	P-23177	Spring - Idle Adj. Screw
P-15396	P-23161	Valve - Idle Needle
P-15405	P-15405	By-Pass Jet .056"
P-15554	P-23024	Screw - Idle Adjusting
P-16126	P-23113	Air Horn
P-16186	P-23090	Assy. - Throttle Lever
P-16195	P-23009	Assy. - Pump Lever with Bearing
P-16198	P-23015	Bracket - Pump Lever
P-16199	P-23014	Screw - Pump Lever Fulcrum
P-16665	P-23003	Main Body - #54-56 Idle Disch. Holes
P-17700	P-23180	Throttle Valve
P-17701	P-23045	Assy. - Idle Tube with Holder
P-18744	P-23028	Assy. - Throttle Gear & Stem (Right)
P-18745	P-23031	Assy. - Throttle Gear & Stem (Left)
P-18749	P 23018	Assy. - Push Rod with Link
P-18751	P-23021	Screw - Push Rod
P-19551	P-23044	Float Needle Valve & Seat
P-22595	P-22541	Main Disch. Jet (Left) #34
P-22596	P-22540	Main Disch. Jet (Right) #34
None Shown	P-8598	Felt Packing
" "	P-13041	Screw - Cover Attaching
" "	P-13850	Spring - Throttle Stem Seal
" "	P-15070	Washer - Felt
" "	P-15344	Washer - Slow Idle Adj. Screw
" "	P-16089	Felt Packing - Slow Idle Adj. Screw
" "	P-16639	Lock Nut - Choke Valve Att. Screw
" "	P-21411	Washer - Throttle Stem Seal
" "	P-22071	Gasket - Idle Tube
" "	P-22329	Pin - Choke Valve Stem
" "	P-23010	Assy. - Pump Lever & Bushing
" "	P-23016	Screw - Piston Link Fulcrum
" "	P-23017	Lockwasher - Piston Link Fulcrum
" "	P-23022	Nut - Packing - Push Rod
" "	P-23023	Felt Packing
" "	P-23040	Washer - Choke Stem Seal
" "	P-23041	Cover - Throttle Gear Box

Continued

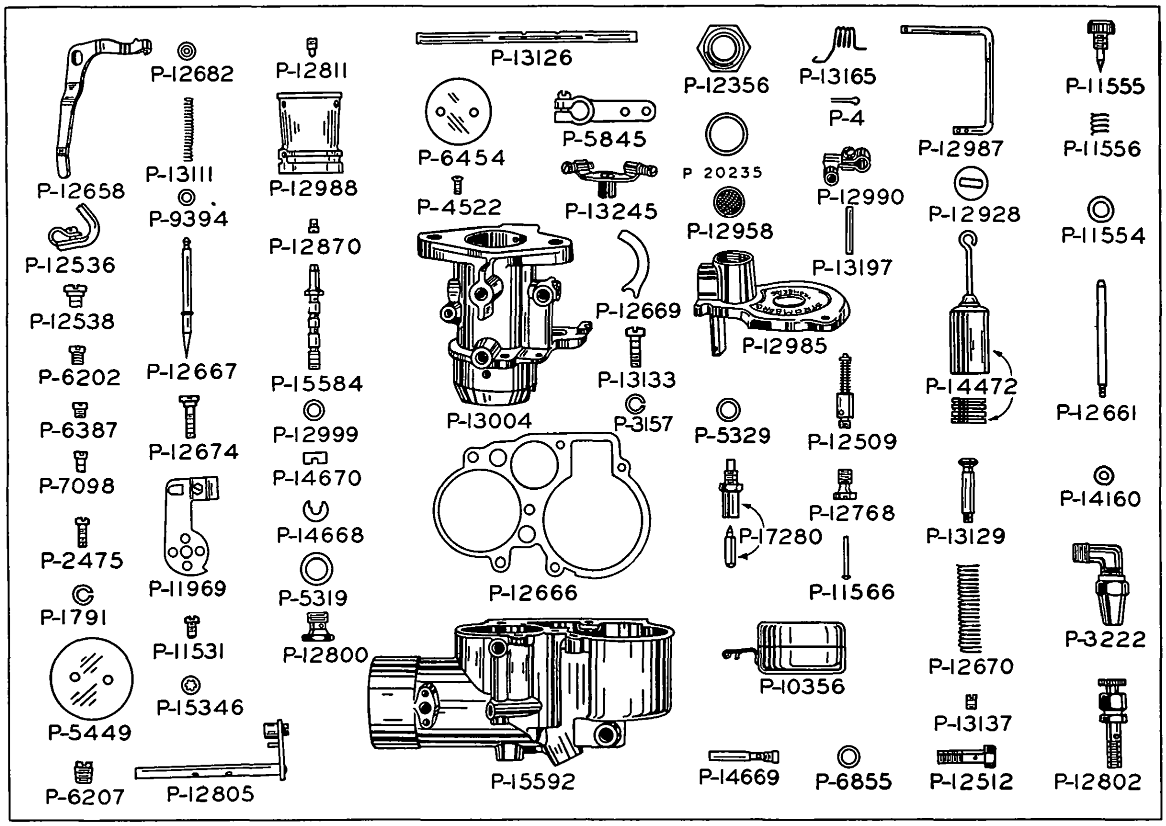
PARTS AND SETTINGS EXCEPTIONS MODEL DDR-5 STANDARD CARBURETOR
ADDITIONAL

None Shown	P-23043	Oiler - Push Rod
" "	P-23743	Nut - Throttle Stem
" "	P-23820	Assy. - Choke Lever & Stem

General Motors Truck 1938, Models "720"
Fourth & Fifth Series. "735" Second
Series. (2050934)
5"x6" 6 Cyl. Own "707" Engine

A-17725 DDR-5 Carburetor (Code 23-64B)

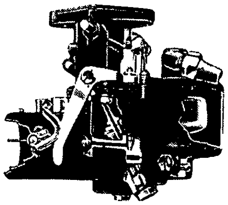
Std. Part No.	Special Part No.	Used on Above Model
P-285	P-22399	Screw - Choke Valve Attaching
P-3316	P-16879	Screw - Air Horn Attaching (two required)
P-6082	P-23038	Assy. - Choke Valve
P-12512	P-15384	Metering Jet .064
P-12530	P-23162	Spring - Idle Needle Valve
P-13687	P-18056	Assy. - Float with Lever
P-14768	P-23177	Spring
P-15396	P-23161	Valve - Idle Needle
P-15405	P-15405	By-Pass Jet .046
P-15554	P-23024	Screw - Idle Adjusting
P-16126	P-23113	Air Horn
P-23689	P-23689	Venturi Tube (Left) 1-3/8"
P-23690	P-23690	Venturi Tube (Right) 1-3/8"
P-16186	P-23090	Assy. - Throttle Lever
P-16195	P-23009	Assy. - Pump Lever with Bearing
P-16198	P-23015	Bracket - Pump Lever
P-16199	P-23014	Screw - Pump Lever Fulcrum
P-16527	P-16179	High Speed Bleeder #68
P-16665	P-23003	Main Body #54-56 Idle Holes
P-17700	P-23180	Throttle Valve
P-17701	P-23557	Assy. - Idle Tube with Holder
P-18744	P-23028	Assy. - Throttle Gear & Stem (Right)
P-18745	P-23031	Assy. - Throttle Gear & Stem (Left)
P-18749	P-23018	Assy. - Push Rod With Link
P-18751	P-23021	Screw - Push Rod Link Fulcrum
P-19551	P-23044	Float Needle Valve & Seat .196"
P-22595	P-22541	Main Discharge Jet (Left) #34
P-22596	P-22540	Main Discharge Jet (Right) #34
None Shown	P-82-S-1	Set Screw - Choke Stem Collar
" "	P-3157	Lockwasher - Cover Attaching Screw
" "	P-8598	Felt Packing
" "	P-13041	Screw - Cover Attaching
" "	P-13850	Spring - Throttle Stem Seal
" "	P-15344	Washer - Slow Idle Adj. Screw
" "	P-16089	Felt Packing - Slow Idle Adj. Screw
" "	P-16639	Locknut - Choke Valve Attaching Screw
" "	P-21411	Washer - Throttle Stem Seal
" "	P-22071	Gasket - Idle Tube
" "	P-22329	Pin - Choke Valve Stop
" "	P-23010	Assy. Pump Lever & Bushing
" "	P-23016	Screw - Piston Link Fulcrum
" "	P-23017	Lockwasher Piston Link Fulcrum
" "	P-23022	Nut - Packing Push Rod
" "	P-23023	Felt Packing
" "	P-23040	Washer - Choke Stem Seal
" "	P-23041	Cover - Throttle Gear Box
" "	P-23042	Gasket - Throttle Gear Box
" "	P-23043	Oiler - Push Rod
" "	P-23608	Assy. - Choke Stem & Adapter
" "	P-23609	Collar - Choke Stem
" "	P-23743	Nut - Throttle Stem



U-1 No. A-11861
(Obsolete)
1" CARB SAE

U-2 No. A-11862
(Obsolete)
1¼" CARB SAE

U-3 No. A-11863
1½" CARB SAE



Notes and References

Parts for U-2 illustrated corresponding U-1 and U-3 Parts shown in listing below

Car models having these carburetors with parts exceptions therefor are shown on back of this page

‡Indicates Sub assembly part

PARTS LISTS STROMBERG MODEL "U-1, U-2 AND U-3" STANDARD CARBURETORS (DIE CAST)

U-1 Part No	U 2 Part No	U-3 Part No	Name
P-4	P-4	P-4	Pump Lever Cotter Pin
P-1791	P-1791	P-1791	Float Chamber Cover Screw Lockwasher
P-2475	P-2475	P-2475	Float Chamber Cover Screw
P-3157	P-3157	P-3157	Main Body Attach Screw Lockwasher
P-3222	P-3222	P-3222	Gasoline Elbow Union
‡P-3221	‡P-3221	‡P-3221	Union Elbow
‡P-3220	‡P-3220	‡P-3220	Union Nut
P-3316	P-3324	P-3324	Carburetor Attaching Cap Screw
P-4522	P-4522	P-4522	Choke Valve Screw
P-4522	P-4522	P-4522	Throttle Valve Screw
P-5319	P-5319	P-5319	Main Discharge Jet Plug Gasket
P-5329	P-5329	P-5329	Float Needle Valve Seat Gasket
P-12537	P-5449	P-6050	Choke Valve
P-5845	P-5845	P-5456	Throttle Lever with Screw
‡P-3199	‡P-3199	‡P-3199	Throttle Lever Clamp Screw
P-6202	P-6202	P-6202	Idle Discharge Channel Plug
			Idle Channel Expansion Plug
P-6202		P-6202	Main Gas Channel Plug
	P-6202	P-6202	Idle Discharge Hole Plug .
	P-6207	P-6207	High Speed Bleeder Channel Plug
P-6387	P-6387	P-6406	Auxiliary Channel Plug
		P-6387	Auxiliary Feed Channel Plug
	P-6387		Economizer Channel Plug
P-6406	P-6387	P-6387	Pump Channel Plug
*P-9576	P-6454	P-5436	Throttle Valve (VAR)
P-6855	P-6855	P-6855	By-Pass Jet Gasket
P-6855	P-6855	P-6855	High Speed Needle Valve Seat Gasket
P-6855	P-6855	P-6855	Metering Jet Gasket
	P-7098	P-7098	Idle Channel Plug
P-9394	P-9394	P-9394	Auxiliray Needle Valve Spring Washer
P-12525	P-10356	P-10356	Float with Lever
P-11531	P-11531	P-11531	Choke Tube Holder Attaching Screw
P-11554	P-11554	P-11554	Idle Needle Valve Washer
P-11555	P-11555	P-11555	Idle Needle Valve
P-11556	P-11556	P-11556	Idle Needle Valve Spring
P-11566	P-11566	P-11556	Float Fulcrum Pin
P-11969	P-11969	P-12823	Choke Tube Holder with Screw (Comp)
‡P-11561	‡P-11561	‡P-11561	Choke Tube Clamp
‡P-12868	‡P-12868	‡P-12868	Choke Tube Clamp Screw
‡P-8806	‡P-8806	‡P-8806	Choke Tube Clamp Screw Nut
		P-12006	Auxiliary Gas Channel Expansion Plug
P-12356	P-12356	P-12356	Strainer Plug
P-12509	P-12509	P-12509	Economizer Needle Valve (Comp)
‡P-10173	‡P-10173	‡P-10173	Economizer Needle Valve Washer
‡P-8344	‡P-8344	‡P-8344	Econ Needle Valve Open Washer
‡P-12507	‡P-12507	‡P-12507	Economizer Needle Valve Spring
*P-12512	P-12512	P-12512	Metering Jet (VAR)
P-12536	P-12536	P-12536	Auxiliary Cam with Screw
‡P-2866	‡P-2866	‡P-2866	Auxiliary Cam Clamp Screw
P-12538	P-12538	P-12538	Aux Control Lever Fulcrum Screw
P-12687	P-12658	P-12712	Auxiliary Control Lever
P-12518	P-12661	P-12744	Idle Tube
P-12688	P-12666	P-12711	Main Body Gasket
P-12683	P-12667	P-12743	Auxiliary Needle Valve
	P-12669	P-12709	Gasket Support
P-12520	P-12670	P-12718	Pump Piston Spring
P-12540	P-12674	P-12708	Auxiliary Gasoline Nozzle
P-12682	P-12682	P-12682	Auxiliary Needle Valve Lift Washer
*P-12768	P-12768	P-12768	By-Pass Jet (VAR)
P-12800	P-12800	P-12800	Main Discharge Jet Plug
P-12802	P-12802	P-12802	H S Needle Valve (Complete)
‡P-12803	‡P-12803	‡P-12803	H S Needle Valve Packing Nut
‡P-1503	‡P-1503	‡P-1503	H S Needle Valve Packing
P-13007	P-12805	P-13009	Choke Lever with Stem (Complete)
‡P-10981	‡P-10981	‡P-10981	Choke Wire Clamp Screw
	P-12811	P-12866	Large Venturi Tube Set Screw
*P-12870	P-12870	P-12870	High Speed Bleeder (VAR)
P-12928	P-12928	P-12928	Pump Piston Link Washer
P-12958	P-12958	P-12958	Strainer
P-12502	P-12985	P-12991	Float Chamber Cover
P-12685	P-12987	P-12993	Pump Lever
*P-12503	P-12988	P-12994	Large Venturi Tube (VAR)
P-12534	P-12990	P-12715	Economizer Lever with Roller
‡P-12529	‡P-12529	‡P-12529	Economizer Lever Clamp Nut
‡P-284	‡P-284	‡P-284	Economizer Lever Clamp Screw
P-12999	P-12999	P-12999	Main Discharge Jet Nut Gasket
*P-12770	P-13886	P-13005	Throttle Valve Body (VAR)
	‡P-9979	‡P-10351	Throttle Stem Bushing
P-12528	P-13111	P-13110	Auxiliary Needle Valve Spring
P-12812	P-13126	P-13131	Throttle Lever and Stem
P-13129	P-13129	P-13138	Pump Piston Valve
P-13133	P-13133	P-13133	Main Body Attaching Screw
*P-13127	P-13137	P-13135	Pump Valve Gas Reducer (VAR)
P-12539	P-13165	P-13166	Pump Lever Spring
P-12526	P-13197	P-13463	Economizer Push Rod
P-6893	P-13245	P-7041	Throttle Stop with Screws
‡P-47	‡P-2924	‡P-2266	Throttle Stop Clamp Screw
‡P-12375		‡P-12375	Throttle Stop Set Screws
	‡P-15301		Throttle Stop Screw Spring
	P-14160		Idle Tube Cork Washer
P-14471	P-14472	P-14493	Pump Piston and Sleeve
	P-14668		Main Discharge Jet Washer
	P-14669		Main Gas Channel Reducer
P-12801	P-14670	P-12801	Main Discharge Jet Nut
P-15346	P-15346	P-15346	Ch Tube Holder Attach Screw Lockw'r
*P-12515	P-15584	P-12707	Main Discharge Jet (VAR)
P-13011	P-15592	P-13043	Main Body
		P-13041	Main Body Attaching Screw
P-17280	P-17280	P-17280	Float Needle Valve and Seat
P-20235	P-20235	P-20235	Strainer Plug Gasket

J-4192 G	U 1	Complete Gasket Set
J-4193 G	U-2	Complete Gasket Set—Die Cast
J-4518-G	U-2	Complete Gasket Set—Cast Iron Throttle Valve Body
J 4536-G	U-2	Complete Gasket Set—Cast Iron
J-4194-G	U 3	Complete Gasket Set—Die Cast
J 4519 G	U 3	Complete Gasket Set—Cast Iron

*NOTE On parts marked (VAR) size must be specified when ordering

STANDARD SPECIFICATIONS

A-11861 U-1 Carburetor

P-9576	Thro Valve (20°)
P-12503	7/8" Venturi
P-12515	No 40 Main Disch Jet
P-12518	Idle Tube, No 70 Feed, No 60 Top Hole
P-12768	036" By Pass Jet
P-12770	Thro Valve Body with No 56-70 Idle Holes Fl Tapped 5/16-18"
P-12870	No 70 H S Bleeder
P-13127	No 66 Syr Reducer

Mechanical Economizer
A-11862 U-2 Carburetor

P-6454	Thro Valve (20°)
P-12661	Idle Tube No 68 Feed, No 62 Top Hole
P-12768	047" By Pass Jet
P-12870	No 65 H S Bleeder
P-12988	1 1/32" Venturi
P-13004	Thro Valve Body with No 56-70 Idle Holes, Fl Tapped 5/8-16'
P-13137	No 68 Syr Reducer
P-15584	No 32 Main Discharge Jet

A-11863 U-3 Carburetor
Die Cast

P-5436	Thro Valve (20°)
P-12707	A-30 B-28 Main Disch Jet
P-12744	Idle Tube, No 68 Feed, No 64 Top Hole
P-12768	042' By Pass Jet
P-12870	No 56 H S Bleeder
P-12994	1 1/8" Venturi
P-13005	Thro Valve Body with No 56-66 Idle Holes Fl Tapped 5/8-16'
P-13135	No 62 Syr Reducer

STANDARD SETTINGS FOR U-1-2-3 CARBURETORS

Thro Valve Location U-1-3—lower lip of throttle valve to be flush plus or minus 004 with top of lower idle hole
U-2—Flush, plus or minus 008
Pump Capacity U-1— 9 to 10 CC per 10 Strokes
U-2—10 to 14 CC per 10 Strokes
U-3—15 to 20 CC per 10 Strokes

Economizer Needle To start to open when Thro valve is cracked open with
U-1—7/32 drill
U-2— 228 or No 1 drill
U-3—11/32" drill
Aux Needle Valve Should start to open when choke valve is 10° to 15° from wide open position (Approx 3/32' lift).

SPECIFICATIONS OF STANDARD EQUIPPED PASSENGER CARS
PARTS AND SETTINGS EXCEPTIONS MODELS U-1, U-2 and U-3 STANDARD CARBURETORS

CHRYSLER "65" and "66" 1928-29 (79153)
3 1/8" x 4 1/4"—6 Cyl

No A-12182—U-2 Carburetor (Code No 4-12)

Std. Part No.	Special Part	Used on Above Model Car
P-5845 P-13126	P-13284	Throttle Lever and Stem
P-11969	P-12680	Choke Tube Holder
P-12512	P-12512	Metering Jet 059"
P-12768	P-12768	By-Pass Jet 025"
P-12805	P-13303	Choke Lever and Stem
P-12985	P-12986	Float Chamber Cover
P-13004	P-12966	Throttle Valve Body 31/32" Venturi No 55-65 Idle Holes, Fl Tap 5/8-16"
P-14670	P-12801	Main Disch Jet Plug
P-15584	P-12750	Main Discharge Jet No 32
P-15592	P-13492	Main Body with No 58 H S Bleeder

NOTE Carburetors up to Serial No 4155733 used·

	P-13262	Venturi Tube 31/32"
	P-12811	Set Screw
	P-13004	Throttle Valve Body

NOTE Thro Valve Location Flush plus or minus 002"
NOTE Pump Capacity 8 to 12 c c per 10 Strokes

CHRYSLER 1928 MODEL "62"
3 1/8"x4 1/4"—6-Cylinder Engine

A-11671 U-1 Carburetor

Std Part No	Special Part No	Used on Above Model Car
P-11969	P-12680	Tube Holder
P-12502	P-12982	Float Chamber Cover
P-12512	P-12512	051' Metering Jet
P-12812 P-5845	P-12519	Throttle Lever with Stem
P-12768	P-12768	031" By-Pass Jet
P-12770	P-13280	Throttle Valve Body No 56-66 Idle Holes Flange Tapped 5/16-18'
P-13007	P-13177	Choke Lever and Stem
P-13011	P-12771	Main Body
P-13127	P-13127	No 64 Gas Reducer

NOTE Pump Capacity 12 c c per 10 Strokes
NOTE Thro Valve Location Flush, plus 006 or minus 002

DODGE "DA" 1928-29 (210099)
3 3/8" x 3 7/8"—6 Cyl

No A-12832 U-2 Carburetor (Code No 3-4)

Std Part No.	Special Part	Used on Above Model Car
P-5845 P-13126	P-13284	Throttle Lever and Stem
P-11969	P-12680	Choke Tube Holder
P-12512	P-12512	Metering Jet 056"
P-12661	P-13078	Idle Tube 68 Feed 60 Top Hole
P-12768	P-12768	By-Pass Jet 027"
P-12805	P-13303	Choke Lever and Stem
P-12985	P-12986	Float Chamber Cover
P-13004	P-13886	Throttle Valve Body 15/16' Venturi with No 52-62 Idle Holes, Fl Tap 3/8-16"
P-14670	P-12801	Main Disch Jet Plug
P-15584	P-12750	Main Discharge Jet No 32
P-15592	P-12742	Main Body No 58 H S Bleeder

NOTE Thro Valve Location Flush, plus or minus 004"

DE SOTO CHRYSLER CORPORATION 1928-29 "K" (44125)
3"x4 1/8"—6-Cylinder

A-12181 U-1 Carburetor (Code No 16-2)

Std Part No.	Special Part	Used in Above Model Truck
P-4522	P-13453	Throttle Valve Screws
P-5845 P-6893 P-12812	P-13309	Throttle Lever and Stem
P-11969	P-12680	Tube Holder on Left Side
P-12503	P-12503	15/16' Venturi Tube
P-12770	P-12770	Throttle Valve Body with 54-70 Idle Holes, Fl Tapped 5/16-18'
P-12502	P-12982	Float Chamber Cover
P-12515	P-13310	No 32 Main Jet
P-12802	P-12512	053 Metering Jet
P-12768	P-12768	025 By-Pass Jet
P-13007	P-13314	Choke Lever and Stem
P-13011	P-13361	Main Body No 60 H S Bleeder
None Shown	P-12023	Fillister Hd Machine Screw
None Shown	P-13362	Plug in Throttle Valve Body

NOTE Pump Capacity 7 to 11 c c per 10 Strokes

STUDEBAKER "54" 1930 (172452)
3 1/4" x 4 1/8"—6 Cyl.

No A-14782—U-2 Carburetor (Code No 6-23)

Mechanical Economizer and Cast Iron Top

Std. Part No.	Special Part	Used on Above Model Car
P-5449	P-15839	A H Valve
P-5845 P-13126	P-15807	Throttle Lever and Stem
P-6454	P-6454	Throttle Valve 19 1/2°
P-11969	P-14265	Choke Tube Holder
P-12512	P-12512	Metering Jet 060"
P-12538	P-14645	Auxiliary Lever Fulcrum Screw
P-12805	P-13303	Choke Lever and Stem
P-12958	P-13438	Strainer
P-12988	P-14418	Venturi Tube 1"
P-13004	P-14431	Throttle Valve Body No 55-66 Idle Holes, Fl Tapped 3/8-16'
P-13137	P-13135	Pump Reducer No 62
P-15584	P-14671	Main Discharge Jet No 32
P-15592	P-14682	Main Body with No 60 H S Bleeder
P-17280	P-18832	Needle and Seat
None Shown	P-16324	Throttle Flange Stud
None Shown	P-13434	Strainer Body Stud
None Shown	P-13432	Strainer Body
None Shown	P-13435	Strainer Body Gasket
None Shown	P-13583	Float Lever Support
None Shown	P-11572	Strainer Stud Gasket

NOTE Economizer Setting 1/4" Drill

NOTE Thro Valve Location 006 plus or minus 004 above top of lower idle hole

NOTE Pump Capacity 8 to 12 c c per 10 strokes

PARTS AND SETTINGS EXCEPTIONS MODELS U-1, U-2 and U-3 STANDARD CARBURETORS (Continued)

(Passenger Cars)

STUDEBAKER "ERSKINE" & "53" 1930 (171754)
3¼″ x 4⅛″—6 Cyl.
No A-14622—U-2 Carburetor with Cast Iron Throttle Valve Body

Std. Part No.	Special Part	Used on Above Model Car
P-5449	P-13788	Air Horn Valve and Spring (Upper)
	P-13895	Air Horn Valve (Lower)
P-5845 P-13126	P-15369	Throttle Lever and Stem
P-6454	P-6454	Throttle Valve 19½°
P-11969	P-15420	Choke Tube Holder
P-12512	P-12512	Metering Jet 060′
P-12538	P-14645	Auxiliary Lever Fulcrum Screw
P-12768	P-12768	By-Pass Jet 034″
P-12958	P-13438	Strainer
P-12988	P-14418	Venturi Tube 1
P-13004	P-14431	Throttle Valve Body with No 55-66 Idle Holes Fl Tapped ⅜-16″
P-13137	P-13135	Pump Reducer No 62
P-15584	P-14671	Main Discharge Jet No 32
P-15592	P-15422	Main Body with No 60 H S Bleeder
P-17280	P-18832	Needle and Seat
None Shown	P-14374	Float Chamber Plug
None Shown	P-11250	Pump Lever Washer
None Shown	P-15418	Throttle Flange Stud
None Shown	P-13434	Strainer Stud
None Shown	P-13432	Strainer Body
None Shown	P-13435	Strainer Body Gasket
None Shown	P-13583	Float Lever Support
None Shown	P-15362	Float Lever Support Rivet
None Shown	P-11572	Strainer Stud Gasket
None Shown	P-15416	Throttle Lever (Loose)
None Shown	P-5837	Throttle Lever Stop (Loose)

NOTE Economizer Setting ¼″ Drill

NOTE *Pump Capacity 8 to 12 c c per 10 strokes*

NOTE Thro Valve Location 006 plus or minus 004 above top of lower idle hole

PARTS AND SETTINGS EXCEPTIONS MODEL U-1, U-2 AND U-3 STANDARD CARBURETORS

(Truck)

BROCKWAY-INDIANA TRUCK (100831)
1929-30 "SC-120" and 'SC-140"
4 x 4⅛″ 6 Cyl.
A-13943 U-3 Carburetor

Std Part No.	Special Part	Used on Above Model Truck
P-3222	P-3278	Union
P-5856	P-8123	Thro Lever with Screw
P-12512	P-12512	048 Meter Jet
P-12744	P-14850	Idle Tube 64 Feed, 62 Top Hole
P-12768	P-12768	027′ By Pass Jet
P-12870	P-12870	No 60 H S Bleeder
P-12991	P-12992	Fl Ch Cover
P-12994	P-12994	1⅛″ Venturi
P-13005	P-13005	Thro Valve Body with No 55-66 Idle Holes, Fl Tapped ⅜-16′
P-13135	P-13128	No 57 Pump Gas Reducer

NOTE Pump Capacity 22 to 26 cc per 10 Strokes

STUDEBAKER TRUCK (630253)
1930 MODELS "S-20-S-30"
3¼″x4⅛″ 6 Cyl.
A-14652 U-2 Carburetor
(Cast Iron Thro Valve Body)

Std Part No.	Special Part	Used on Above Model Truck
P-5449	P-13778	Valve and Spring (Upper)
	P-13895	Valve (Lower)
P-5845 P-13126	P-15369	Thro Lever and Stem
P-6454	P-6454	Spec 19½° Thro Valve
P-11969	P-14070	Tube Holder
P-12512	P-12512	060″ Meter Jet
P-12538	P-14645	Fulcrum Screw
P-12768	P-12768	034′ By Pass Jet
P-12988	P-14418	1′ Venturi
P-13004	P-14431	Thro Valve Body with No 56-66 Idle Holes, Fl Tapped ⅜-16′
P-13137	P-13135	No 62 Gas Reducer
P-15584	P-14671	No 32 M D Jet
P-15592	P-15422	Main Body with No 60 H S Bleed
P-17280	P-18832	Needle and Seat
None Shown	P-14670	Nut
None Shown	P-11250	Washer
None Shown	P-15418	Studs
None Shown	P-14617	Plug
None Shown	P-13434	Hex Head Screw
None Shown	P-13438	Strainer
None Shown	P-13432	Strainer Body
None Shown	P-13435	Gasket
None Shown	P-13583	Support
None Shown	P-15423	Loose Lever
None Shown	P-5837	Loose Lever Stop

NOTE Economizer Setting, ¼′ Drill

NOTE Pump Capacity 8 to 12 CC per 10 Strokes

NOTE Throttle Valve Location, 006 plus or minus 004 above top of lower idle hole

STUDEBAKER TRUCK 1930 MODELS "S-20-30-40-50-60" (B630531)
3¼ x 4⅛″ 6 Cyl.
A-14742 U-2 Carb. (Cast Iron Thro. Valve Body)

Std Part No	Special Part	Used on Above Model Truck
P-5449	P-13778	Valve and Spring (Upper)
	P-13895	Valve (Lower)
P-5845 P-13126	P-15369	Thro Lever and Stem
P-6454	P-6454	Spec 19½° Thro Valve
P-11969	P-14070	Tube Holder
P-12512	P-12512	060′ Meter Jet
P-12538	P-14645	Fulcrum Screw
P-12768	P-12768	034″ By Pass Jet
P-12988	P-14418	1′ Venturi
P-13004	P-14431	Thro Valve Body with No 56-66 Idle Holes, Fl Tapped ⅜-16′
P-13137	P-13135	No 62 Gas Reducer
P-15584	P-14671	No 32 M D Jet
P-15592	P-15422	Main Body with No 60 H S Bleeder
P-17280	P-18832	Needle and Seat
None Shown	P-14670	Nut
None Shown	P-11250	Washer
None Shown	P-15599	Studs
None Shown	P-14617	Plugs
None Shown	P-13434	Hex Hd Screw
None Shown	P-13438	Strainer
None Shown	P-13432	Strainer Body
None Shown	P-13435	Gasket
None Shown	P-13583	Support
None Shown	P-15423	Loose Lever
None Shown	P-5837	Loose Lever Stop

NOTE Economizer Setting ¼″ Drill

NOTE Pump Capacity 8 to 12 CC per 10 Strokes

NOTE Throttle Valve Location 006 plus or minus 004 above top of lower idle hole

STEWART 1929 MODEL "30" (B-18650)
3¾″ x 4½″ 4 Cyl
A-13931 U-1 Carburetor
Cast Iron Carburetor

Std Part No	Special Part	Used on Above Model Car
P-3222	P-3221	Union Elbow
P-5845	P-7085	Thro Lever with Screw
P-11969	P-14070	Tube Holder
P-12503	P-13433	⅞ Venturi
P-12688	P-13436	Gasket
P-12768	P-12768	Blank By Pass Jet
P-12770	P-13430	Thro Valve Body with No 56-68 Idle Holes, Flange Tapped 5/16-18″
P-12802	P-13091	Adj Nozzle Attach with 069′ Restriction
P-12870	P-12870	No 56 H S Bleeder
P-13011	P-14661	Main Body
P-13127	P-6967	No 68 Gas Reducer

NOTE Pump Capacity, 6 to 8 CC per 10 Strokes

REPLACEMENT EQUIPMENTS
PARTS AND SETTINGS EXCEPTIONS MODELS U-1-2-3 STANDARD CARBURETORS
(Passenger Cars and Trucks)

AUBURN "8-98" 1931
3" x 4¾" 8 Cyl.

J-4159 U-3 Carburetor and Equipment

Std Part No.	Special Part	Used on Above Model Car
P-5856	P-8221	Thro Lever (Drilled 9/32" on 1" Centers
P-6050	P-15269	Air Horn Valve
P-12512	P-12512	038" Meter Jet
P-12823	P-12677	Tube Holder
P-13005	P-13005	Thro Val Body with No 54-66 Idle Holes, Flange Tapped ⅜-16'
P-13009	P-12741	Air Horn Lever and Stem
P-13135	P-13242	No 60 Pump Reducer
None Shown	P-14677	Loose Thro Lever
None Shown	P-6123	Loose Lever Stop

EQUIPMENT

P-4753 Gaskets

NOTE Throttle Valve Location, 020 plus or minus 004 above top of lower idle hole

CHANDLER 1929 "BIG SIX"
3¾" x 5" 6 Cyl.

J-3987 U-3 Carburetor and Equipment (Code No 161-1)

Std Part No.	Special Part	Used on Above Model Car
P-3222	P-3221	Union Elbow
P-5856	P-12114	Thro Lever
P-12512	P-12512	070' Meter Jet
P-12707	P-12707	No 28 Main Disch Jet
P-12768	P-12768	046' By Pass Jet
P-12870	P-12870	No 68 H S Bleeder
P-12994	P-12994	1¼" Venturi
P-13005	P-13005	Thro Valve Body with No 52-62 Idle Holes Flange Drilled 13/32"
P-13135	P-13134	No 58 Syr Reducer
None Shown	P-13884	Loose Thro Lever
None Shown	P-6123	Loose Lever Stop

EQUIPMENT

P-4753 Gasket

CHEVROLET 1929 PKG EQUIPT.
3-5/16 x 3¾" 6 Cyl.

A-13111 U-1 Carburetor

Std Part No.	Special Part	Used on Above Model Car
P-5845	P-7085	Thro Lever and Screw
P-9576	P-9576	19° Thro Valve
P-11969	P-14070	Tube Holder
P-12502	P-12982	Float Chamber Cover
P-12512	P-12512	038" Meter Jet
P-12515	P-14081	No 46 Main Disch Jet
P-12768	P-12768	040" By Pass Jet
P-12770	P-12770	Thro Valve Body with No 54-68 Idle Holes, Flange Drilled 11/32"
P-13011	P-14111	Main Body
P-13127	P-13127	No 65 Syringe Reducer
None Shown	P-11	Rd Hd Mach Screw
None Shown	P-14084	Loose Thro Lever
None Shown	P-5837	Loose Lever Stop

EQUIPMENT

J-3822-F Fittings—P-79 Cotter Pin—P-4751 Gaskets—P-13233 Cap Screws —P-14082 Breather Conn —P-14088 Cotter Pins

ERSKINE 1929 MODEL "52"
2¾" x 4½" 6 Cyl

J-4028 U-1 Carburetor and Equipment

Std Part No	Special Part	Used on Above Model Car
P-3222	P-3761	Gas Union
P-5845	P-8217	Thro Lever (Blank) (drill 17/64" on ¾" Centers and 13/64" on 1½ Centers)
P-12503	P-12503	27/32" Venturi
P-12515	P-12515	No 32 Main Dis Jet
P-12768	P-12768	025" By Pass Jet
P-12770	P-12770	Thro Valve Body with No 54-70 Idle Holes, Flange Tapped $\frac{5}{16}$-18"
P-12870	P-12870	No 60 H S Bleeder
P-13127	P-13127	No 65 Syringe Reducer
None Shown	P-8901	Loose Thro Lever
None Shown	P-5837	Loose Lever Stop

EQUIPMENT

P-4751 Gasket

NOTE Throttle Valve Location 004 plus or minus 004 above top of lower idle hole

GRAHAM TRUCK ½ TO 1½-TON 1927-'28
3⅞"x4½" 4 Cyl.

J-3963 U-1 Carburetor and Equipment (Code No 9-23)

Std Part No.	Special Part	Used on Above Model Car
P-3222	P-8514	Elbow Union
P-5845	P-11783	Thro Lever and Screw
P-12502	P-12982	Float Chamber Cover
P-12515	P-14081	No 40 Main Disch Jet
P-12768	P-12768	028" By Pass Jet
P-12770	P-12770	Thro Valve Body with No 54-68 Idle Holes, Flange Drilled 11/32"
P-12870	P-12870	No 65 H S Bleeder
P-13011	P-13211	Main Body
P-13127	P-13127	No 64 Syr Reducer

EQUIPMENT

P-4751 Gasket

NOTE Throttle Valve Location, 016 plus or minus 004 above top of lower idle hole

GRAHAM PAIGE "6-14" 1928
3⅛" x 4½" 6 Cyl.

J-3998 U-3 Carburetor and Equipment

Std Part No.	Special Part	Used on Above Model Car
P-5856	P-10437	Thro Lever
P-12512	P-12512	056" Meter Jet
P-12994	P-12994	1' Venturi
P-13005	P-13005	Throttle Valve Body, 56-66 Idle Hole, Flange Drilled 13/32"
None Shown	P-13884	Loose Thro Lever
None Shown	P-6123	Loose Lever Stop

EQUIPMENT

J-2921 Fittings—P-4753 Gaskets—P-7441 Studs—P-6146 Nuts—P-8737 Ball Joint—P-2290 Nuts—P-1791 Lock Washer—P-4 Cotter Pin—P-13883 Thro Rod

GRAHAM PAIGE 1929 "6-15"
3¼" x 4½" 6 Cyl.

J-4061 U-3 Carburetor and Equipment (Code No 9-9)

Std Part No.	Special Part	Used on Above Model Car
P-5856	P-14971	Thro Lever
P-12512	P-12512	056' Meter Jet
P-12994	P-12994	1" Venturi
P-13005	P-13005	Throttle Valve Body 56-66 Idle Hole, Flange Drilled 13/32'
None Shown	P-13884	Loose Thro Lever
None Shown	P-6123	Loose Lever Stop

EQUIPMENT

J-2921-F Manifold Fittings—P-4753 Gaskets—P-7441 Studs—P-6146 Nuts P-8737 Ball Joints—P-2290 Nuts—P-1791 Lock Washers——P-4 Cotter Pin—P-14688 Thro Rod

GRAHAM PAIGE 1929 "827", "837"
3⅜" x 4½" 8 Cyl.

J-4042 U-3 Carburetor and Equipment (Code No 9-24)

Std Part No	Special Part	Used on Above Model Car
P-12512	P-12512	055' Meter Jet
P-13005	P-13005	Throttle Valve Body, 56-66 Idle Hole, Flange Tapped ⅜-16"

EQUIPMENT

J-3985-F Fittings—P-4753 Gasket—P-4754 Gasket—P-14404 Gas Line Exten —P-8415 Elbow—P-3278 Gas Union

GRAHAM 1930 SPECIAL "6"
3¼" x 4½" 6 Cyl.

J-4080 U-3 Carburetor and Equipment (Code No 9-20)

Std Part No.	Special Part	Used on Above Model Car
P-5856	P-14971	Thro Lever
P-12512	P-12512	050" Meter Jet
P-12823	P-12677	Tube Holder
P-12994	P-12994	1" Venturi
P-13005	P-13005	Throttle Valve Body, 56-66 Idle Hole, Flange Drilled 13/32"
P-13009	P-12741	Air Horn Lever and Stem
None Shown	P-13884	Loose Thro Lever
None Shown	P-6123	Loose Lever Stop

EQUIPMENT

J-2927-F Manifold Fitting—P-11207 Studs—P-6146 Nuts—P-4 Cotter Pins —P-8737 Ball Joint—P-4753 Gaskets—P-15205 Thro Rod—P-15206 Thro Rod

REPLACEMENT EQUIPMENTS
PARTS AND SETTINGS EXCEPTIONS MODELS U-1-2-3 STANDARD CARBURETORS (Continued)
(Passenger Cars and Trucks)

HUDSON 1928
3½" x 5 6 Cyl
J 3933 U-3 Carburetor and Equipment

Std Part No	Special Part	Used on Above Model Car
P-3222	P-8515	Union Elbow
P-5856	P-13039	Thro Lever and Screw
P-12512	P-12512	063 Meter Jet
P-12707	P-19775	A 30 B 28 Main Disch Jet
P-12744	P-19799	Idle Tube, 64 Feed 57 Top Hole
P-12768	P-12768	033 By Pass Jet
P-12823	P-12677	Tube Holder
P-12870	P-12870	No 60 H S Bleeder
P-12994	P-12994	1-3/32 Venturi
P-13005	P-13005	Thro Val Body with No 51-60 Idle Holes Flange Drilled 13/32
P-13009	P-12741	Air Horn Lever and Stem

EQUIPMENT

J 3933 Manifold Fitting—P-4753 Gasket—P-13454 Bushings—P-13458 Thro Lever—P-13459 Thro Rod—P-4 Cotter Pin—P-13456 Air Horn Elbow

HUDSON 1929 "SUPER SIX"
3½ x 5" 6 Cyl
J 4024-A U 3 Carburetor and Equipment (Code No 22-2)

Std Part No	Special Part	Used on Above Model Car
P-5856	P-15573	Thro Lever and Screw
P-12768	P-12768	034 By Pass Jet
P-12870	P-12870	No 54 H S Bleeder
P-12994	P-12994	$1\frac{1}{16}$' Venturi
P-13005	P-13005	Thro Val Body with No 56-64 Idle Holes Flange Drilled 13/32'
P-13135	P-13242	No 60 Syr Reducer

NOTE Pump Capacity 18 to 22 CC per 10 Strokes

EQUIPMENT

J-4024 Manifold Fitting—P-14146 Gasket—P-4753 Gasket—P-8954 Gas Line Extension

KISSEL 1925 TO 1928 "8-75"
$3\frac{1}{16}$" x 4½ 8 Cyl
J-3977 U-3 Carburetor and Equipment

Std Part No	Special Part	Used on Above Model Car
P-3222	P-3279	Gas Union
P-5856	P-8123	Thro Lever (on Left)
P-12707	P-13020	No 28 Main Disch Jet
P-12768	P-12768	028 By Pass Jet
P-12870	P-12870	No 60 H S Bleeder
P-13005	P-13005	Thro Val Body with No 50-64 Idle Holes Flange Tapped ⅜-16'
None Shown	P-8307	Thro Lever (on Right)
None Shown	P-7441	Studs (in Flange)

NOTE Throttle Valve Location 004 plus 006 or minus 002 above top of lower idle hole

EQUIPMENT

P-4753 Gaskets

MARMON 1930 MODEL '79'
$3\frac{3}{16}$"x4¾ 8 Cyl
J-4092 U-3 Carburetor and Equipment

Std Part No	Special Part	Used on Above Model Car
P-5856	P-13848	Thro Lever and Screw
P-12512	P-12512	060 Meter Jet
P-12707	P-12707	No 28 Main Disch Jet
P-12744	P-15185	Idle Tube 62 Feed 60 Top Hole
P-12768	P-12768	030' By Pass Jet
P-12870	P-12870	No 54 H S Bleeder
P-13005	P-13005	Thro Valve Body with No 55 65 Idle Holes Flange Drilled 13/32'
None Shown	P-14596	Nuts
None Shown	P-14677	Loose Thro Lever
None Shown	P-6123	Loose Lever Stop

NOTE Throttle Valve Location 004 plus or minus 004

EQUIPMENT

P 4753 Gaskets

NASH 400 SERIES "STD SIX' PKG EQUIPT
LATE 1927, 1928 and 1929
3⅛ x 4" 6 Cyl
A-12381 U-1 Carburetor

Std Part No	Special Part	Used on Above Model Car
P 3222	P-8514	Union Elbow
P-5845	P-7246	Thro Lever
P-9576	P-9576	19° Thro Valve
P-11969	P-12680	Tube Holder
P 12502	P-12982	Float Chamber Cover
P-12503	P-12503	13/16 Venturi
P-12512	P-12512	038 Meter Jet
P-12515	P-14081	No 40 Main Dis Jet
P-12518	P-13715	Idle Tube 70 Feed 62 Top Hole
P-12768	P-12768	020 By Pass Jet
P-12770	P-12770	Thro Val Body with No 56 66 Idle Holes Flange Drilled 11/32
P-12812	P-13158	Thro Stem
P-13007	P-12725	Air Horn Lever and Stem
P-13011	P-13221	Main Body with No 60 H S Bleeder
P-13127	P-13127	No 64 Syr Reducer

NOTE Throttle Valve Location 015 plus or minus 004 above top of lower idle hole

EQUIPMENT

P-4 Cotter Pin—J 3822-F Manifold Fitting—P 4751 Gasket—P-9330 Rd Hd Screw—P-11097 Bushings—P-13042 Bushings—P-14104 Cap Screws

NASH 1930 'SINGLE SIX"
3⅛ x 4⅜" 6 Cyl
J-4106 U-1 Carburetor and Equipment

Std Part No	Special Part	Used on Above Model Car
P-3222	P-8514	Union Elbow
P-5845	P-7246	Thro Lever and Screw
P-11969	P-12680	Tube Holder
P-12502	P-12982	Float Chamber Cover
P-12503	P-12503	15/16 Venturi
P-12512	P-12512	043 Meter Jet
P-12515	P-14081	No 40 Main Disch Jet
P-12518	P-13715	Idle Tube 62 Feed 60 Top Hole
P-12770	P-12770	Thro Valve Body with No 56-66 Idle Holes Flange Drilled 11/32'
P-12870	P-12870	No 60 H S Bleeder
P-13007	P-12725	Air Horn Lever and Stem
P-13127	P-13127	No 64 Syr Reducer

NOTE Pump Capacity 10 to 12 CC per 10 Strokes

NOTE Throttle Valve Location 015 plus or minus 004 above top of lower idle hole

EQUIPMENT

J-3822 Fittings—P-4751 Gasket—P-14104 Cap Screws—P-4 Cotter Pin—P-13042 Air Horn Bushings—P-9330 Round Head Screw—P-11097 Bushings

REO "20' AND '25" 1930-'31
3⅜ x5" 6 Cyl
J-4163 U-3 Carburetor and Equipment (Code No 12-21)

Std Part No	Special Part	Used on Above Model Car
P-3222	P-8515	Union Elbow
P-5856	P-13425	Thro Lever and Screw
P-12512	P-12512	048 Meter Jet
P-12704	P-12704	$1\frac{3}{16}$ Venturi
P-12707	P-12707	No 28 Main Disch Jet
P-12991	P-12992	Fl Chamber Cover
P-13005	P-13005	Thro Valve Body with No 55 63 Idle Holes Flange Tapped ⅜-16'
P-13135	P-13465	No 64 Pump Reducer

NOTE Pump Capacity 10 to 14 CC per 10 Strokes

EQUIPMENT

J-4060 Manifold Fittings—P-4753 Gaskets—P-7441 Studs—P-3324 Cap Screws—P-14683 Nuts—P-16261 Air Cleaner

STUDEBAKER "FA" 1928
3⅜"x4⅜' 8 Cyl
J-4027 U 3 Carburetor and Equipment (Code No 6-46)

Std Part No	Special Part	Used on Above Model Car
P-5856	P-8221	Blank Thro Lever (Drill 17/64" on ¾ and 1¼ Centers)
P-12512	P-12512	054 Meter Jet
P-12707	P-12707	No 26 Main Disch Jet
P-12744	P-19838	Idle Tube 66 Feed, 60 Top Hole
P-12994	P-12994	$1\frac{3}{16}$' Venturi
P-13005	P-13005	Thro Valve Body with No 51-64 Idle Holes Flange Drilled 13/32"
P 13135	P-13967	No 55 Syr Reducer

EQUIPMENT

P-4753 Gasket—P-3317 Cap Screw—P-7441 Stud—P-7428 Nut

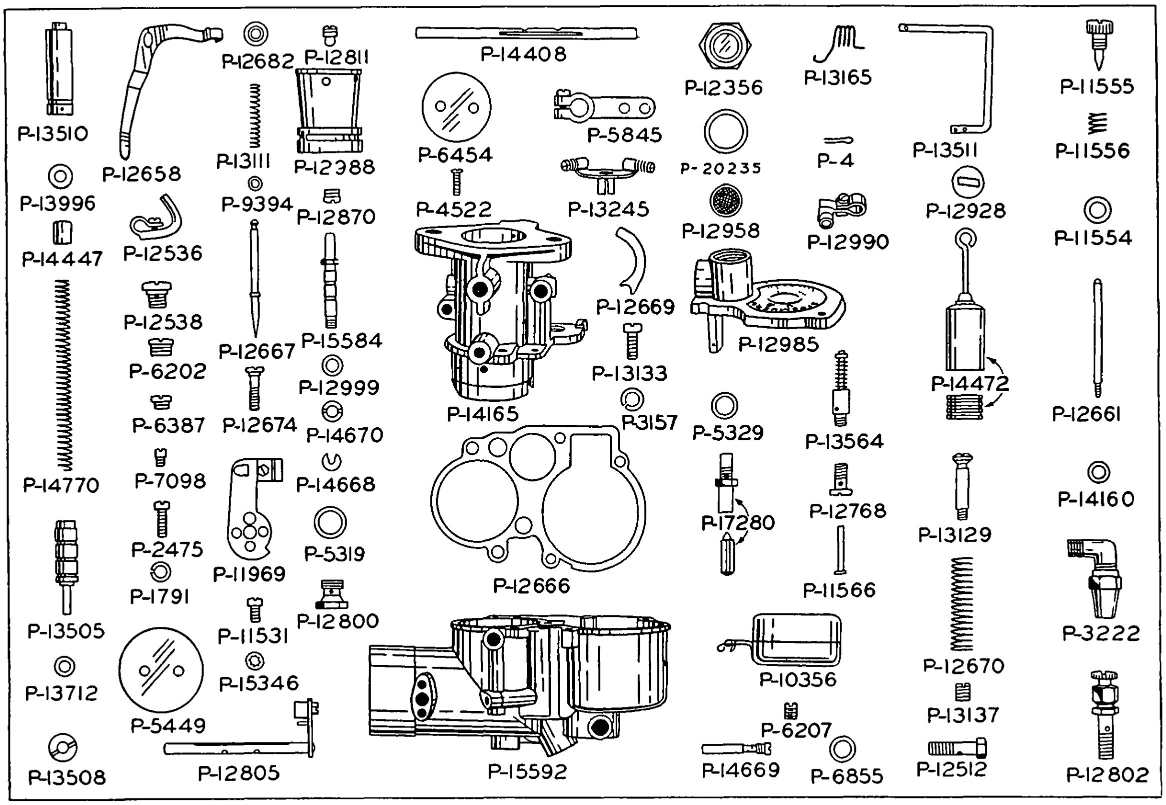
VIKING 1929-'30
3⅜ x3⅞" 8 Cyl
J-4120 U-3 Carburetor and Equipment (Code No 52-1)

Std Part No	Special Part	Used on Above Model Car
P-5856	P-8221	Blank Thro Lever (Drill 7/32' on 1½" Centers)
P-6050	P-15269	Air Horn Valve
P-12512	P-12512	058 Meter Jet
P-12768	P-12768	044' By Pass Jet
P-12823	P-13286	Tube Holder
P-12994	P-12994	1¼' Venturi
P-13005	P-13005	Thro Valve Body with No 55-65 Idle Holes Flange Drilled 13/32
P-13009	P-15788	Air Horn Lever and Stem
P 13135	P-13242	No 60 Syr Reducer
None Shown	P-14596	Main Jet Nut
None Shown	P-14595	Reducer
None Shown	P-9025	Screw
None Shown	P-10767	Washer
None Shown	P-15002	Clip

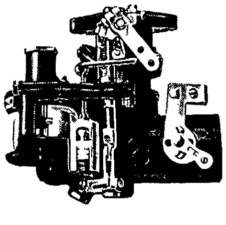
NOTE Pump Capacity 18 to 24 CC per 10 Strokes

EQUIPMENT

P 11207 Studs—P 7428 Nuts—P-15804 Gasket—P-15802 Air Cleaner—P-15809 Vent Connection—P-3385 Cotter Pin—P-4 Cotter Pin—P-2714 Street Elbow



U-2 N . A-13482
1¼" CARB. SAE



Notes and References:

Car models having this carburetor with parts exceptions therefor are shown on back of this page

‡Indicates Sub-assembly part

PARTS LIST STROMBERG MODEL "U-2" CARBURETOR (with Vacuum Econ.--Die Cast)

Part No.	Name	
P-4	Pump Lever Cotter Pins	
P-1791	Float Chamber Cover Screw Lock Washers	
P-2475	Float Chamber Cover Screws	
P-3157	Main Body Attaching Screw Lock Washers	
P-3222	Gasoline Elbow Union	
‡P-3221	Union Elbow	
‡P-3220	Union Nut	
P-3324	Carburetor Attaching Cap Screw	
P-4522	Choke Valve Screws	
P-4522	Throttle Valve Screws	
P-5319	Main Discharge Jet Plug Gasket	
P-5329	Float Needle Valve Seat Gasket	
P-5449	Choke Valve	
P-5845	Throttle Lever with Screw	
‡P-3199	Throttle Lever Clamp Screw	
P-6202	Idle Discharge Hole Plug	
P-6202	Idle Discharge Channel Plug	
P-6207	High Speed Bleeder Channel Plug	
P-6387	Auxiliary Channel Plugs	
P-6387	Economizer Channel Plug	
P-6387	Pump Channel Plug	
*P-6454	Throttle Valve	(VAR)
P-6855	By Pass Jet Gasket	
P-6855	High Speed Needle Valve Seat Gasket	
P-6855	Metering Jet Gasket	
P-7098	Idle Channel Plug	
P-9394	Auxilliary Needle Valve Spring Washers	
P-10356	Float with Lever	
P-11531	Choke Tube Holder Attach Screws	
P-11554	Idle Needle Valve Washer	
P-11555	Idle Needle Valve	
P-11556	Idle Needle Valve Spring	
P-11566	Float Fulcrum Pin	
P-11969	Choke Tube Holder with Screw (Complete)	
‡P-11561	Choke Tube Clamp	
‡P-12868	Choke Tube Clamp Screw	
‡P-8806	Choke Tube Clamp Screw Nut	
P-12356	Strainer Plug	
*P-12512	Metering Jet	(VAR)
P-12529	Pump Lever Clamp Nut	
P-12536	Auxiliary Cam with Screw	
‡P-2866	Auxiliary Cam Clamp Screw	
P-12538	Auxiliary Control Lever Fulcrum Screw	
P-12658	Auxiliary Control Lever	
P-12661	Idle Tube	
P-12666	Main Body Gasket	
P-12667	Auxiliary Needle Valve	
P-12669	Gasket Support	
P-12670	Pump Piston Spring	
P-12674	Auxiliary Gasoline Nozzle	

Part No.	Name	
P-12682	Auxiliary Needle Valve Lift Washer	
*P-12768	By-Pass Jet	(VAR)
P-12800	Main Discharge Jet Plug	
P-12802	High Speed Needle Valve (Complete)	
‡P-1503	High Speed Needle Palve Packing	
‡P-12803	High Speed Needle Valve Packing Nut	
P-12805	Choke Lever with Stem (complete)	
‡P-10981	Choke Wire Clamp Screw	
P-12811	Venturi Tube Set Screw	
*P-12870	High Speed Bleeder	(VAR)
P-12928	Pump Piston Link Washer	
P-12958	Strainer	
P-12985	Float Chamber Cover	
*P-12988	Venturi Tube	(VAR)
P-12990	Pump Lever with Roller	
‡P-284	Pump Lever Clamp Screw	
P-12999	Main Discharge Jet Gasket	
P-13111	Auxiliary Needle Valve Spring	
P-13129	Pump Piston Valve	
P-13133	Main Body Attaching Screws	
*P-13137	Pump Valve Gas Reducer	(VAR)
P-13165	Pump Lever Spring	
P-13245	Throttle Stop with Screws	
‡P-2924	Throttle Stop Set Screws	
‡P-15301	Throttle Stop Set Screw Springs	
P-13505	Vacuum Economizer Piston	
P-13508	Vacuum Economizer Piston Sleeve Plug	
P-13510	Vacuum Economizer Piston Sleeve	
P-13511	Pump Lever	
P-13564	Economizer Needle Valve (Complete)	
‡P-10173	Economizer Needle Valve Washer	
‡P-8344	Economizer Needle Valve Open Washer	
‡P-13551	Economizer Needle Valve Spring	
P-13712	Vacuum Economizer Piston Stem Gasket	
P-13996	Vacuum Economizer Piston Gasket (on top)	
P-14160	Idle Tube Cork Washer	
*P-14165	Throttle Valve Body	(VAR)
‡P-9979	Throttle Stem Bushings	
P-14408	Throttle Lever Stem	
P-14447	Vacuum Economizer Piston Stem Spring Cup	
P-14472	Pump Piston and Sleeve	
P-14668	Main Discharge Jet Nut Washer	
P-14669	Main Gas Channel Reducer	
P-14670	Main Discharge Jet Nut	
P-14770	Vacuum Economizer Piston Spring	
P-15346	Choke Tube Holder Attach Screw Lock Washers	
*P-15584	Main Discharge Jet	(VAR)
P-15592	Main Body	
P-17280	Float Needle Valve and Seat	
P-20235	Strainer Plug Gasket	

J 4193-G	U-2	Complete Gasket Set—(Die Cast)
J-4180-G	UV-2	Complete Gasket Set

*NOTE On parts marked (VAR) size must be specified when ordering

STANDARD SPECIFICATION

A-13482 U-2 Carburetor
Die Cast. Vacuum Economizer

P-6454	Throttle Valve (20°)
P-12661	Idle Tube, No 68 Feed, No 62 Top Hole
P-12768	047 By Pass Jet
P-12870	No 65 H S Bleeder
P-12988	1 1/32' Venturi
P-13137	No 68 Syr Reducer
P-14165	Thro Valve Body with No 56-70 Idle Holes Flange Tapped ⅜-16
P-15584	No 32 Main Dis Jet

STANDARD SETTING FOR U-2 and UV-2 CARBURETORS

Throttle Valve Location Lower lip of throttle valve to be flush plus or minus 004 with top of lower idle hole
Pump Capacity 10 to 14 CC per 10 strokes
Pump Travel ¾
Auxiliary Needle Valve Should start to open when choke valve is 10° to 15° from open position (Approx 3/32 lift)

SPECIFICATIONS OF STANDARD EQUIPPED PASSENGER CARS
PARTS AND SETTINGS EXCEPTIONS MODEL U-2 STANDARD VACUUM ECONOMIZER CARBURETOR

CHRYSLER "66" 1930 (311438)

3⅛" x 4¾"—6 Cyl.

No A-13882—U-2 Carburetor (Code No. 4-24)

Std Part No	Special Part Used on Above Model Car	
P-4522	P-14836	Choke Valve Screw
P-5449	P-14451	Choke Valve
P-5845 P-14408	P-14467	Throttle Lever and Stem
P-11969	P-12680	Choke Tube Holder
P-12512	P-12512	Metering Jet 065'
P-12768	P-12768	By-Pass Jet 042'
P-12805	P-14411	Choke Lever and Stem
P-12985	P-12986	Float Chamber Cover
P-14165	P-13504	Throttle Valve Body 1 1/16' Venturi with No 55-65 Idle Holes, Flange Tapped ⅜-16'
P-14669	P-14595	Gas Channel Reducer
P-14670	P-14596	Main Discharge Jet Nut
P-15584	P-12750	Main Discharge Jet No 32
P-15592	P-13492	Main Body with No 58 H S Bleeder
None Shown	P-14126	Choke Valve Plate

NOTE Pump Capacity 8 to 12 CC per 10 Strokes
NOTE Throttle Valve Location, Flush plus 002 minus 000

DODGE BROTHERS CORPORATION 1929 MODEL "DA" (211453)

3⅜ x3⅞ —6 Cylinder

A-13602 U-2 Carburetor (Code No 3-15)

Std Part No.	Special Part Used on Above Model Car	
P-4522	P-14836	Choke Valve Screws
P-5449	P-14451	Choke Valve and Spring
P-11969	P-12680	Choke Tube Holder
P-12768	P-12768	027" By-Pass Jet
P-12802	P-12512	056" Metering Jet
P-12805	P-14411	Choke Lever and Stem
P-12985	P-12986	Fl Chamber Cover
P-14165	P-13504	Throttle Valve Body 15/16 Venturi with 52-62 Idle Holes Flange Tapped ⅜-16"
P-14408 P-5845	P-14467	Throttle Lever and Stem
P-14669	P-14595	Reducer
P-14670	P-14596	Main Discharge Jet Nut
P-15592	P-12742	Main Body with No 58 H S Bleeder
P-15584	P-12750	No 32 Main Discharge Jet
None Shown	P-14126	Valve Plate

DURANT "617" 1929 (29271)

3⅜" x 4⅝"—6 Cyl

No A-14072—U-2 Carburetor

Std Part No	Special Part Used on Above Model Car	
P-5845 P-14408	P-14988	Throttle Lever and Stem
P-6454	P-6454	Throttle Valve 19½°
P-11969	P-12677	Choke Tube Holder
P-12512	P-12512	Metering Jet 061"
P-12661	P-13000	Idle Tube 66 Feed, 60 Top Hole
P-12768	P-12768	By-Pass Jet 035'
P-12805	P-14985	Choke Lever and Stem
P-12988	P-12988	Venturi Tube 1"
P-14165	P-14165	Thro Val Body with No 53-66 Idle Holes Flange Tapped ⅜-16'
P-15584	P-14980	Main Discharge Jet No 32
P-15592	P-14492	Main Body with No 60 H S Bleeder
None Shown	P-5837	Throttle Stop (Loose)
None Shown	P-14382	Throt Lev and Wire Connector

NOTE Pump Capacity 9 to 12 CC per 10 Strokes
NOTE Exposure of lower idle hole 005 plus or minus 004 (No 55 drill go No 53 no go gauge)

DURANT "612-614-619" 1929-30-31 (28324)

3¼" x 4"—6 Cyl

No A-13762—U-2 Carburetor (Code No 85-2)

Std Part No	Special Part Used on Above Model Car	
P-5449	P-15949	Choke Valve
P-5845 P-14408	P-13126	Throttle Lever and Stem
P-11969	P-12823	Choke Tube Holder
P-12512	P-12512	Metering Jet 058'
P-12768	P-12768	By-Pass Jet 032
P-12805	P-16634	Choke Lever and Stem
P-12985	P-12986	Float Chamber Cover
P-13137	P-13588	Pump Reducer No 66
P-14165	P-13504	Throttle Valve Body 31/32 Venturi with No 55-64 Idle Holes, Flange Tapped ⅜-16'
P-15584	P-14681	Main Discharge Jet No 32
P-15592	P-16642	Main Body

FRANKLIN "135-137" 1928 (43294)

3½" x 4⅜"—6 Cyl

No A-13242—U-2 Carrburetor (Code No 20-6)

Std Part No	Special Part Used on Above Model Car	
P-3222	P-14380	Union Elbow
P-5449	P-10986	Choke Valve
P-5845	P-12695	Throttle Lever
P-11969	P-12680	Choke Tube Holder
P-12512	P-12512	Metering Jet 064
P-12661	P-14234	Idle Tube, 70 Feed, 62 Top Hole
P-12768	P-12768	By-Pass Jet 042
P-12805	P-14270	Choke Lever and Stem
P-12985	P-12986	Float Chamber Cover
P-12988	P-12988	Venturi Tube 1 1/16"
P-13137	P-13313	Pump Reducer No 70
P-13245	P-10004	Throttle Stop
P-14165	P-14165	Throttle Valve Body with No 55-62 Idle Holes Flange Tapped ⅜-16"
P-14408	P-14248	Throttle Lever Stem
P-15584	P-14087	Main Discharge Jet No 32
P-15592	P-14262	Main Body
None Shown	P-5015	Throttle Stop Set Screw
None Shown	P-13922	Throttle Flange Stud
None Shown	P-11083	Throttle Flange Stud Nut
None Shown	P-11084	Throttle Flange Stud Washer

NOTE Pump Capacity 6 to 9 CC per 10 Strokes

HUPP "CENTURY 6" 1929

3¼" x 4¼"—6 Cyl

No A-12422—U-2 Carburetor

Std Part No	Special Part Used on Above Model Car	
P-5845 P-14408	P-13821	Throttle Lever and Stem
P-6454	P-6454	Throttle Valve 19°
P-11969	P-12677	Choke Tube Holder
P-12512	P-12512	Metering Jet 060'
P-12661	P-13882	Idle Tube 65 Feed, 50 Top Hole
P-12768	P-12768	By-Pass Jet 042
P-12805	P-12653	Choke Lever and Stem
P-12985	P-12986	Float Chamber Cover
P-13137	P-13313	Pump Reducer No 70
P-14165	P-13504	Throttle Valve Body 1 1/32" Venturi with No 52-65 Idle Holes Flange Tapped ⅜-16'
P-14669	P-14595	Gas Channel Reducer
P-14670	P-14596	Main Discharge Jet Nut
P-15584	P-12750	Main Discharge Jet No 32
P-15592	P-13972	Main Body with No 58 H S Bleeder
None Shown	P-11724	Fuemer Cover Attaching Screw
None Shown	P-12606	Fuemer Cover Attach Sc L washer
None Shown	P-13170	Fuemer Cover
None Shown	P-13171	Fuemer Cover Gasket

NOTE Throttle Valve Location 012 plus 000 minus 008 above top of lower idle hole
NOTE Pump Capacity 7 to 11 CC per 10 Strokes

PARTS AND SETTINGS EXCEPTIONS MODEL U-2 STANDARD VACUUM ECONOMIZER CARBURETOR (Cont.)
(Passenger Cars)

HUPP "S" 1929-30-31-32 (65620)
3¼" x 4¼"—6 Cyl.
No. A-13362—U-2 Carburetor No Auxiliary Needle Used

Std Part No.	Special Part Used on Above Model Car	
P-3222	P-8514	Union Elbow
P-5845 P-14408	P-14388	Throttle Lever and Stem
P-6454	P-6454	Throttle Valve 19½°
P-11969	P-12680	Choke Tube Holder
P-12512	P-12512	Metering Jet 060
P-12768	P-12768	By-Pass Jet 040"
P-12805	P-14385	Choke Lever and Stem
P-12985	P-12986	Float Chamber Cover
P-14165	P-13504	Throttle Valve Body 1 1/32" Venturi with No 54-65 Idle Holes, Flange Tapped ⅜-16'
P-15584	P-15340	Main Discharge Jet No 32
P-15592	P-14402	Main Body
None Shown	P-14317	Air Horn Tube Holder
None Shown	P-14386	Air Horn Tube Holder Attach Screw
None Shown	P-14382	Throt Lever and Wire Contr (Loose)
None Shown	P-5837	Throttle Stop (Loose)

PEERLESS "97" 1929 (24013)
3" x 4¾"—8 Cylinder.
No. A-13632—U-2 Carburetor

Std Part No	Special Part Used on Above Model Car	
P-5845	P-14612	Throttle Lever
P-6454	P-6454	Throttle Valve 19½°
P-12768	P-12768	By-Pass Jet 035"
P-12805	P-14615	Choke Lever Stem
P-12985	P-12986	Float Chamber Cover
P-13137	P-13313	Pump Reducer No 70
P-14165	P-13504	Throttle Valve Body, 1-3/32" Venturi with No 52-68 Idle Holes, Flange Drilled 13/32'
P-14408	P-14309	Throttle Lever Stem
P-15584	P-14610	Main Discharge Jet No 32
P-15592	P-14652	Main Body with No 65 H S Bleeder
None Shown	P-14614	Air Horn Lever Stop
None Shown	P-8909	Choke Lever

NOTE Pump Capacity, 8 to 12 CC per 10 Strokes

REPLACEMENT EQUIPMENTS
PARTS AND SETTINGS EXCEPTIONS MODEL U-2 STANDARD VACUUM ECONOMIZER CARBURETOR
(Passenger Cars and Trucks)

CHANDLER "BIG SIX" 1927-'28
3⅛' x 5" 6 Cyl
J-4004 U-2 Carburetor and Equipment

Std Part Used	Special Part Used on Above Model Car	
P-3222	P-3279	Union Nipple
	P-2714	Street Elbow
P-5845	P-11091	Thro Lever
P-6454	P-6454	19½° Thro Valve
P-12512	P-12512	063' Meter Jet
P-12768	P-12768	028' By Pass Jet
P-12870	P-12870	No 60 H S Bleeder
P-12988	P-12988	1⅛' Venturi
P-13137	P-13137	No 62 Syr Reducer
P-14165	P-14165	Thro Val Body with No 50 64 Idle Holes Flange Drilled 13/32'
P-15584	P-15584	No 28 M D Jet
None Shown	P-19777	Loose Thro Lever
None Shown	P-5837	Loose Lever Stop

NOTE Throttle Valve Location 004 plus 006 or minus 002 above top of lower idle hole

EQUIPMENT

P-4752 Gasket

DELUXE CAB 1929
3⅜' x 4¼" 6 Cyl
J-4076 U-2 Carburetor and Equipment

Std Part Used	Special Part Used on Above Model Car	
P-5845	P-7448	Thro Lever
P-11969	P-12680	Tube Holder
P-12512	P-12512	058 Meter Jet
P-12768	P-12768	041" By Pass Jet
P-12805	P-13051	Air Horn Lever and Stem
P-12870	P-12870	No 60 H S Bleeder
P-14165	P-14165	Thro Valve Body with No 54 66 Idle Holes Flange Drilled 13/32'

EQUIPMENT

P-4752 Gasket

DIAMOND "T" TRUCK 1928 MODEL "150"
3⅜"x4"—6 Clinder Cont (18-E) Engine
J-4003 U-2 Carburetor and Equipment

Std Part No	Special Part No Used on Above Model Truck	
P-5845	P-5934	Throttle Lever
P-11969	P-12680	Choke Tube Holder
P-12512	P-12512	054 Main Metering Jet
P-12768	P-12768	031" By-Pass Jet
P-12805	P-13303	Choke Lever and Stem
P-12985	P-12981	Float Chamber Cover
P-12988	P-12988	31/32 Venturi
P-14165	P-14165	Throttle Valve Body 56-70 Idle Holes, Flange Tapped ⅜-16
P-15584	P-12750	No 32 Main Discharge Jet

EQUIPMENT

P-4752 Flange Gasket—J-1630 Manifold Fitting—P-12700 Stud—P-7428 Nut—P-15611 Breather Conn Bushing

GARDNER 1929 MODEL "125"
2⅞" x 4¾' 8 Cyl
J-4050 U-2 Carburetor and Equipment

Std Part Used	Special Part Used on Above Model Car	
P-3222	P-3221	Union Elbow
P-5845	P-8769	Thro Lever and Screw
P-12512	P-12512	059" Meter Jet
P-12768	P-12768	034' By Pass Jet
P-12988	P-12988	1-3/32 Venturi
P-14165	P-14165	Thro Valve Body with No 55-66 Idle Holes, Flange Tapped ⅜-16"
P-15584	P-15584	No 30 Main Disch Jet
None Shown	P-6385	Studs (in Flange)
None Shown	P-7323	Loose Thro Lever
None Shown	P-5837	Loose Lever Stop

NOTE Throttle Valve Location 015 plus or minus 004 above top of lower idle hole

EQUIPMENT

P-4752 Gasket—P-15578 Gas Line Exten —P-7428 Nuts

GARDNER 1929 MODEL "120"
2¾" x 4¾ 8 Cyl
J-4051 U-2 Carburetor and Equipment

Std Part Used	Special Part Used on Above Model Car	
P-5845	P-6120	Thro Lever and Screw
P-12512	P-12512	048 Meter Jet
P-12768	P-12768	038' By Pass Jet
P-12988	P-12988	1" Venturi
P-14165	P-14165	Thro Valve Body with No 55-64 Idle Holes Flange Tapped ⅜-16"
P-15584	P-14087	No 32 Main Disch Jet
None Shown	P-13448	Loose Thro Lever
None Shown	P-5837	Loose Lever Stop
None Shown	P-6385	Studs (in Flange)

EQUIPMENT

P 4752 Gasket—P-12229 Gas Line—P-7428 Nuts

GRAHAM 1930 "STANDARD 6"
3⅛" x 4½' 6 Cyl
J-4102 U-2 Carburetor and Equipment

Std Part Used	Special Part Used on Above Model Car	
P-12512	P-12512	038' Meter Jet
P-12768	P-12768	031 By Pass Jet
P-12988	P-12988	31/32 Venturi
P-13137	P-13137	No 64 Pump Reducer
P-14165	P-14165	Throttle Valve Body 56-70 Idle Hole, Flange Drilled 13/32"

EQUIPMENT

P-4752 Gasket

MARMON "69" 1930
2-13/16" x 4¼ 8 Cyl
J-4093 U-2 Carburetor and Equipment

Std Part Used	Special Part Used on Above Model Car	
P-5945	P-5934	Thro Lever
P-12661	P-16265	Idle Tube 62 Feed 62 Top Hole
P-12768	P-12768	021' By Pass Jet
P-12870	P-12870	No 54 H S Bleeder
P-12988	P-12988	1 Venturi
P-13137	P-13588	No 66 Syringe Reducer
P-14165	P-14165	Thro Valve Body with No 56-65 Idle Holes Flange Drilled 13/32"
P-14669	P-14595	Reducer
P-14670	P-14596	Nuts
P-15584	P-12663	No 32 Main Disch Jet

EQUIPMENT

P-4752 Gasket

NASH 1930 TWIN IGNITION SIX
3⅜' x 4½" 6 Cyl
J-4103 U-2 Carburetor and Equipment

Std Part Used	Special Part Used on Above Model Car	
P-3222	P-3221	Union Elbow
P-5845	P-13312	Thro Lever and Screw
P-11969	P-12604	Tube Holder
P-12512	P-12512	049' Meter Jet
P-12768	P-12768	040' By Pass Jet
P-12805	P-13474	Air Horn Lever and Stem
P-14165	P-14165	Throttle Valve Body, 56-70 Idle Hole, Flange Drilled 11/32'
P-14669	P-14595	Reducer
P-14670	P-14596	Nut
P-15592	P-19806	Main Body

EQUIPMENT

J-4103 Manifold Fittings—P-13704 Rods—P-10617 Lever—P-4 Cotter Pin—P-11145 Ball Joint—P-4752 Gasket—P-15617 Gaskets—P-13464 Drain Pipes—P-3761 Union

REPLACEMENT EQUIPMENT
PARTS AND SETTINGS EXCEPTIONS MODEL U-2 STANDARD VACUUM ECONOMIZER CARBURETOR
(Passenger Cars and Trucks)

OAKLAND 1929 "ALL AMERICAN' PKG EQUIPT
3⅜" x 4¼ 6 Cyl

A-12342 U-2 Carburetor

Std Part Used	Special Part Used on Above Model Car	
P-3222	P-8514	Union
P-5845	P-11119	Thro Lever and Screw
P-11969	P-12680	Tube Holder
P-12512	P-12512	048 Meter Jet
P-12768	P-12768	040 By Pass Jet
P-12805	P-13051	Air Horn Lever and Stem
P 13245	P 6893	Thro Stop
P-14165	P-14165	Thro Val Body with No 56 66 Idle Holes Flange Drilled 13/32
None Shown	P-5837	Loose Lever Stop
None Shown	P-14308	Loose Lever

NOTE Throttle Valve Location 004 plus or minus 004 above top of lower idle hole

EQUIPMENT

P-13200 Air Cleaner—P-8108 Choke Tube 40 Long—P-4752 Gasket

PONTIAC 1929 30 "BIG SIX' PKG EQUIPT
3$\frac{5}{16}$ x 3⅞" 6 Cyl

A-12032 U 2 Carburetor

Std Part Used	Special Part Used on Above Model Car	
P-3222	P-8514	Union Elbow
P-5845	P-7246	Thro Lever and Screw
P-6454	P-6454	19½° Thro Valve
P-11969	P-12680	Tube Holder
P-12512	P-12512	051 Meter Jet
P-12768	P-12768	028 By Pass Jet
P-12805	P-13051	Air Horn Lever and Screw
P-12870	P-12870	No 60 H S Bleeder
P-12988	P-12988	29/32 Venturi Tube
P-14165	P-14165	Thro Val Body with No 55 64 Idle Holes Flange Drilled 13/32
P-15592	P-14252	Main Body
None Shown	P-2369	Fil Hd Screw
None Shown	P-11956	Loose Thro Lever
None Shown	P-5837	Loose Lever Stop

NOTE Throttle Valve Location 006 plus or minus 004 above top of lower idle hole

EQUIPMENT

P 4752 Flange Gasket

WILLYS KNIGHT 1929-'30 '66B'
3⅜ x 4¾" 6 Cyl

J-4064 U 2 Carburetor and Equipment

Std Part Used	Special Part Used on Above Model Car	
P-3222	P-3278	Union
P-5845 P-14408 P-13245	P-15819	Thro Lever and Stem
P 11969	P-12680	Tube Holder
P-12512	P-12512	066 Meter Jet
P-12768	P-12768	036 By Pass Jet
P-12805	P-16450	Air Horn Lever and Stem
P-12870	P-12870	No 58 H S Bleeder
P 12988	P-12988	1⅛ Venturi
P-14165	P-14165	Thro Valve Body with No 55 66 Idle Holes Flange Tapped ⅜-16'
P-15584	P-13846	No 32 Main Dis Jet
P-15592	P-15552	Main Body
None Shown	P-15626	Thro Lever
None Shown	P-14746	Air Horn Elbow
None Shown	J-4064	Manifold Fittings
None Shown	P-4752	Gasket

EQUIPMENT

P 4752 Gasket—P 6171 Wire Conn

Note: Model UV-2 Vacuum Economizer Carburetor is the same as U-2 A-13482 as shown on Page 25 with the exception of the glass float chamber cover. For parts of cover refer to Page 26

STANDARD SPECIFICATION

A-14722 UV-2 Carburetor
Vacuum Economizer

P-6454	Throttle Valve (20°)
P-12661	Idle Tube, No 68 Feed, No 62 Top Hole
P-12768	047" By Pass Jet
P-12870	No 65 H S Bleeder
P-12988	1 1/32" Venturi
P-13137	No 68 Syr Reducer
P-14165	Thro Valve Body with No 56-70 Idle Holes, Flange Tapped ⅜-16"
P-15584	No 32 Main Jet

REPLACEMENT EQUIPMENTS
PARTS AND SETTINGS EXCEPTIONS MODEL UV-2 STANDARD VACUUM ECONOMIZER CARBURETOR
(Passenger Cars and Trucks)

AUBURN 1929-'30 "6-80" AND "6-85"

2⅞" x 4¾" 6 Cyl.

J-4068 UV-2 Carburetor and Equipment

Std. Part Used	Special Part Used on Above Model Car	
P-5845	P-8217	Thro Lever Blank (Drilled 21/64 on 1½' Centers)
P-11969	P-12680	Tube Holder
P-12512	P-12512	051' Meter Jet
P-12768	P-12768	031' By Pass Jet
P-12805	P-13051	Air Horn Lever and Stem
P-12870	P-12870	No 56 H S Bleeder
P-12988	P-12988	31/32 Venturi
P-13137	P-13137	No 66 Syr Reducer
P-14165	P-14165	Thro Valve Body with No 55-64 Idle Holes, Flange Drilled 13/32"
None Shown	P-7323	Loose Lever Drilled 17/64" on 1½ Centers
None Shown	P-5837	Loose Lever Stop

EQUIPMENT

P-4752 Gaskets

BUICK 1926-'27-'28 MASTER 6 PKG EQUIPT.

3½"x4¾" 6 Cyl

A-12602 UV-2 Carburetor (Code No 7-3)

Std. Part Used	Special Part Used on Above Model Car	
P-3222	P-3279	Union Nipple
P-5845	P-13697	Thro Lever and Screw
P-12512	P-12512	048" Meter Jet
P-12661	P-13000	Idle Tube, 66 Feed, 60 Top Hole
P-12768	P-12768	036" By Pass Jet
P-12805	P-13474	Air Horn Lever and Stem
P-12870	P-12870	No 60 H S Bleeder
P-12988	P-12988	1 1/16' Venturi
P-13245	P-7370	Thro Stop
P-14408	P-13471	Thro Lever Stem
P-14165	P-14165	Thro Valve Body with No 54-66 Idle Holes, Flange Drilled 13/32"
P-15584	P-13475	No 32 Main Disch Jet
None Shown	J-3736	Manifold Fittings
None Shown	P-4752	Flange Gaskets
None Shown	P-11808	Air Horn Lever Stop

EQUIPMENT

P-79 Cotter Pin—P-3279 Union Nipples—P-9886 Gas Line Extension—P-13200 Air Cleaner—P-13459 Thro Conn Rod—P-13407 Thro Conn Lever

DURANT 1929 "70"

3⅜"x4⅝" 6 Cyl.

J-4057-A UV-2 Carburetor and Equipment

Std Part Used	Special Part Used on Above Model Car	
P-5845	P-15436	Thro Lever and Screw
P-11969	P-12680	Tube Holder
P-12512	P-12512	046" Meter Jet
P-12661	P-13000	Idle Tube, 66 Feed, 60 Top Hole
P-12768	P-12768	035" By Pass Jet
P-12805	P-13051	Air Horn Lever and Stem
P-12870	P-12870	No 60 H S Bleeder
P-12988	P-12988	1" Venturi
P-14165	P-14165	Thro Valve Body with No 55-66 Idle Holes, Flange Tapped ⅜-16"
P-14408	P-14419	Thro Stem
P-15584	P-14980	No 32 Main Disch Jet
P-15592	P-15442	Main Body
None Shown	P-13024	Thro Lever and Screw

NOTE Pump Capacity, 9 to 12 CC per 10 strokes

NOTE Exposure of lower idle hole 055 plus or minus 004 (No 55 drill go No 53 no go gauge)

EQUIPMENT

J-3920 Manifold Fittings—P-4752 Gaskets— P-6385 Studs—P-7428 Nuts

DURANT 1928 "75"

3⅜"x4¼" 6 Cyl.

J-4062 UV-2 Carburetor and Equipment

Std Part Used	Special Part Used on Above Model Car	
P-3222	P-3278	Union
P-5845	P-8219	Thro Lever Blank (Drilled 5/16" on 1¼ Centers)
P-11969	P-12680	Tube Holder
P-12768	P-12768	034 By Pass Jet
P-12805	P-15601	Air Horn Lever and Stem
P-12988	P-12988	1 1/16" Venturi
P-13137	P-13137	No 64 Syr Reducer
P-14165	P-14165	Throttle Valve Body, 56-70 Idle Hole, Flange Tapped ⅜-16"
None Shown	P-15594	Thro Lever

EQUIPMENT

J-3920 Manifold Fittings—P-4752 Gaskets—P-3324 Cap Screws

KISSEL 1927-'28 "6-55"

3 5/16"x5⅛" 6 Cyl.

J-4023 UV-2 Carburetor and Equipment (Code No. 119-1)

Std Part Used	Special Part Used on Above Model Car	
P-3222	P-8515	Elbow Union
P-5845	P-7448	Thro Lever and Screw
P-11969	P-12680	Tube Holder
P-12661	P-13000	Idle Tube, 66 Feed, 60 Top Hole
P-12768	P-12768	031" By Pass Jet
P-12805	P-13051	Air Horn Lever and Stem
P-12870	P-12870	No 60 H S Bleeder
P-12988	P-12988	1⅛" Venturi
P-13137	P-13137	No 60 Syr Reducer
P-14165	P-14165	Thro Valve Body with No 53-64 Idle Holes, Flange Drilled 13/32"
P-15584	P-12963	A-32 B-28 M D Jet

NOTE Pump Capacity, 15 to 20 CC per 10 strokes

NOTE Throttle Valve Location, 004 plus 006, minus 002 above top of lower idle hole

EQUIPMENT

P-4752 Gasket

MARQUETTE 1929-'30

3⅛"x4⅝" 6 Cyl.

J-4069 UV-2 Carburetor and Equipment

Std. Part Used	Special Part Used on Above Model Car	
P-3222	P-8514	Gas Union Elbow
P-12512	P-12512	047" Meter Jet
P-12768	P-12768	035" By Pass Jet
P-12988	P-12988	29/32" Venturi
P-14165	P-14165	Thro Valve Body with No 55-64 Idle Holes, Flange Drilled 13/32"
P-15584	P-12750	No 32 M D Jet

EQUIPMENT

J-4069 Manifold Fittings—P-13470 Thro Lever—P-13459 Thro Rod—P-4752 Gasket—P-14086 Gas Line—P-3759 Union Nipple—P-14683 Hex Nuts

NASH 1926 TO 1929 "ADVANCED SIX" PKG. EQUIPT.

3 7/16"x5" 6 Cyl.

A-12652 UV-2 Carburetor

Std Part Used	Special Part Used on Above Model Car	
P-3222	P-3221	Union Elbow
P-5845	P-6030	Thro Lever and Screw
P-6454	P-6454	18½° Thro Valve
P-6893	P-7370	Thro Stop
P-12512	P-12512	048' Meter Jet
P-12661	P-13000	Idle Tube, 66 Feed, 60 Top Hole
P-12768	P-12768	036' By Pass Jet
P-12805	P-13474	Air Horn Lever and Stem
P-12870	P-12870	No 58 H S Bleeder
P-13004	P-13004	Thro Valve Body with No 53-64 Idle Holes, Flange Drilled 13/32"
P-13126	P-13132	Thro Lever Stem
None Shown	P-4752	Flange Gasket
None Shown	J-3577	Flange Fittings
None Shown	P-11808	Air Horn Lever Stop

NOTE Throttle Valve Location, 014 to 022 above top of lower idle hole

EQUIPMENT

P-3324 Cap Screws—P-79 Cotter Pin—P-3761 Union—P-10647 Thro Lever and Screw—P-11145 Ball Joint—P-11322 Choke Rod Extension—P-12400 Washer—P-13991 Thro Rod—P-13464 Drain Pipe

REPLACEMENT EQUIPMENTS

PARTS AND SETTINGS EXCEPTIONS MODEL UV-2 STANDARD VACUUM ECONOMIZER CARBURETOR (Cont'd)

(Passenger Cars and Trucks)

OLDSMOBILE 1929 MODEL "F" PKG. EQUIPT.

3$\frac{1}{16}$x4⅛" 6 Cyl.

A-13512 UV-2 Carburetor

Std Part Used	Special Part Used on Above Model Car	
P-3222	P-8514	Union Elbow
P-5845	P-7833	Thro Lever
P-11969	P-12680	Tube Holder
P-12512	P-12512	048" Meter Jet
P-12768	P-12768	032" By Pass Jet
P-12805	P-13051	Air Horn Lever with Stem
P-12988	P-12988	1" Venturi
P-13137	P-13313	No 70 Syr Reducer
P-13245	P-6893	Thro Stop
P-14165	P-14165	Thro Valve Body with No 55-64 Idle Holes, Flange Drilled 11/32"
P-14408	P-14309	Thro Lever Stem
P-15584	P-14087	No 32 M D Jet
P-15592	P-12872	Main Body
None Shown	P-4752	Gasket
None Shown	J-4017	Manifold Fittings

EQUIPMENT

P-2714 Street Elbow—P-3759 Union Nipple—P-11589 Gas Line—P-14089 Bushings—P-14219 Washer—P-15022 Gaskets—P-14679 Breather Pipe—P-14678 Breather Conn —P-14680 Air Cleaner

OLDSMOBILE 1930 MODEL "F" PKG EQUIPT.

3$\frac{1}{16}$"x4⅛" 6 Cyl

A-14662 UV-2 Carburetor

Std Part Used	Special Part Used on Above Model Car	
P-3222	P-8514	Union Elbow
P-5845	P-7833	Thro Lever and Screw
P-11969	P-12680	Tube Holder
P-12512	P-12512	048' Meter Jet
P-12768	P-12768	032" By Pass Jet
P-12805	P-13051	Air Horn Lever and Stem
P-12988	P-12988	1" Venturi
P-13137	P-13313	No 70 Gas Reducer
P-13245	P-6893	Thro Stop
P-14165	P-14165	Thro Valve Body with No 55-64 Idle Holes Flange Drilled 11/32"
P-14408	P-14309	Thro Stem
P-15584	P-14681	No 32 Main Disc Jet
P-15592	P-15442	Main Body with No 65 H S Bleeder
None Shown	J-4017	Manifold Fittings
None Shown	P-4752	Gaskets

NOTE Pump Capacity, 7 to 11 CC per 10 strokes

EQUIPMENT

P-2714 Street Elbow—P-3759 Union Nipple—P-14086 Gas Line Extension—P-15022 Gasket—P-15455 Vent Conn with Screw

REO 1927 AND EARLY 1928 "WOLVERINE" PKG EQUIPT.

3¼"x4¼" 6 Cyl.

LATE 1928 AND 1929 "MATE"

3⅜"x4" 6 Cyl.

A-13272 UV-2 Carburetor

Std Part Used	Special Part Used on Above Model Car	
P-3222	P-8514	Union Elbow
P-5845	P-13237	Thro Lever
P-6454	P-6454	19° Thro Valve
P-11969	P-12680	Tube Holder
P-12512	P-12512	048 Meter Jet
P-12768	P-12768	039" By Pass Jet
P-12805	P-13051	Air Horn Lever and Stem
P-13137	P-13313	No 70 Syr Reducer
P-13245	P-6893	Thro Lever Stop
P-14165	P-13504	Thro Valve Body with 1$\frac{1}{32}$" Venturi and No 56-64 Idle Holes, Flange Tapped ⅜-16"
P-14408	P-14309	Thro Lever Stem
P-14670	P-14596	Main Disch Jet Nuts
P-15584	P-14087	No 32 Main Disch Jet
P-15592	P-14302	Main Body
None Shown	P-12023	Screw (in Air Horn)

EQUIPMENT

P-11 Attach Screws—P-79 Cotter Pins—P-1791 Lock Washers—P-3324 Cap Screws—J-3920-F Manifold Fitting—P-4752 Gaskets—P-7364 Lever—P-7428 Nuts—P-7442 Studs—P-8786 Cotter Pins—P-12781 Air Horn Extension—P-12783 Flex Tubings—P-14078 Thro Rod

WILLYS 8 1930-'31-'32 "8-80"

3⅛x4" 8 Cyl.

J-4099 UV-2 Carburetor and Equipment

Std. Part Used	Special Part Used on Above Model Car	
P-5845	P-15559	Thro Lever and Screw
P-11969	P-12680	Tube Holder
P-12512	P-12512	046' Meter Jet
P-12768	P-12768	037" By Pass Jet
P-12805	P-13051	Air Horn Lever and Stem
P-12870	P-12870	No 66 H S Bleeder
P-13137	P-13136	No 65 Pump Reducer
P-14165	P-14165	Thro Valve Body with No 54-68 Idle Holes, Flange Tapped ⅜-16"
P-15584	P-14980	No 32 Main Disch Jet
P-15592	P-15442	Main Body
None Shown	P-15561	Loose Thro Lever
None Shown	P-5837	Loose Lever Stop
None Shown	P-6385	Studs

NOTE Pump Capacity, 13 to 15 CC per 10 strokes

EQUIPMENT

P-4752 Gasket—P-79 Cotter Pin—P-7428 Nuts—P-11706 Sliding Block—P-15852 Bushing

WILLYS KNIGHT 1927-'28 "66-A"

3⅜"x4¾" 6 Cyl.

J-4044 UV-2 Carburetor and Equipment (Code No 96-4)

Std Part Used	Special Part Used on Above Model Car	
P-5845	P-5934	Thro Lever
P-12512	P-12512	063" Meter Jet
P-12768	P-12768	036" By Pass Jet
P-12870	P-12870	No 58 H S Bleeder
P-12988	P-12988	1$\frac{1}{16}$" Venturi
P-14165	P-14165	Thro Valve Body with No 55-64 Idle Holes, Flange Tapped ⅜-16"
P-14408	P-12869	Thro Stem
P-15584	P-13475	No 32 Main Dis Jet
None Shown	P-6050	Extra Thro Lever

EQUIPMENT

J-3786 Manifold Fitting—P-9562 Gasket—P-7428 Nuts—P-12700 Studs—P-5364 Lock Washers—P-4 Cotter Pin

WILLYS KNIGHT 1929 "66-A"

3⅜"x4¼" 6 Cyl.

J-4054 UV-2 Carburetor and Equipment

Std Part Used	Special Part Used on Above Model Car	
P-5845	P-5934	Thro Lever and Screw
P-11969	P-12677	Tube Holder
P-12512	P-12512	063' Meter Jet
P-12768	P-12768	036" By Pass Jet
P-12805	P-12653	Air Horn Lever and Stem
P-12870	P-12870	No 58 H S Bleeder
P-12988	P-12988	1$\frac{1}{16}$" Venturi
P-14408	P-13132	Thro Stem
P-14165	P-14165	Thro Valve Body with No 55-64 Idle Holes, Flange Tapped ⅜-16"
P-15584	P-13475	No 32 Main Dis Jet
P-15592	P-19842	Main Body
None Shown	P-6030	Thro Lever and Screw

EQUIPMENT

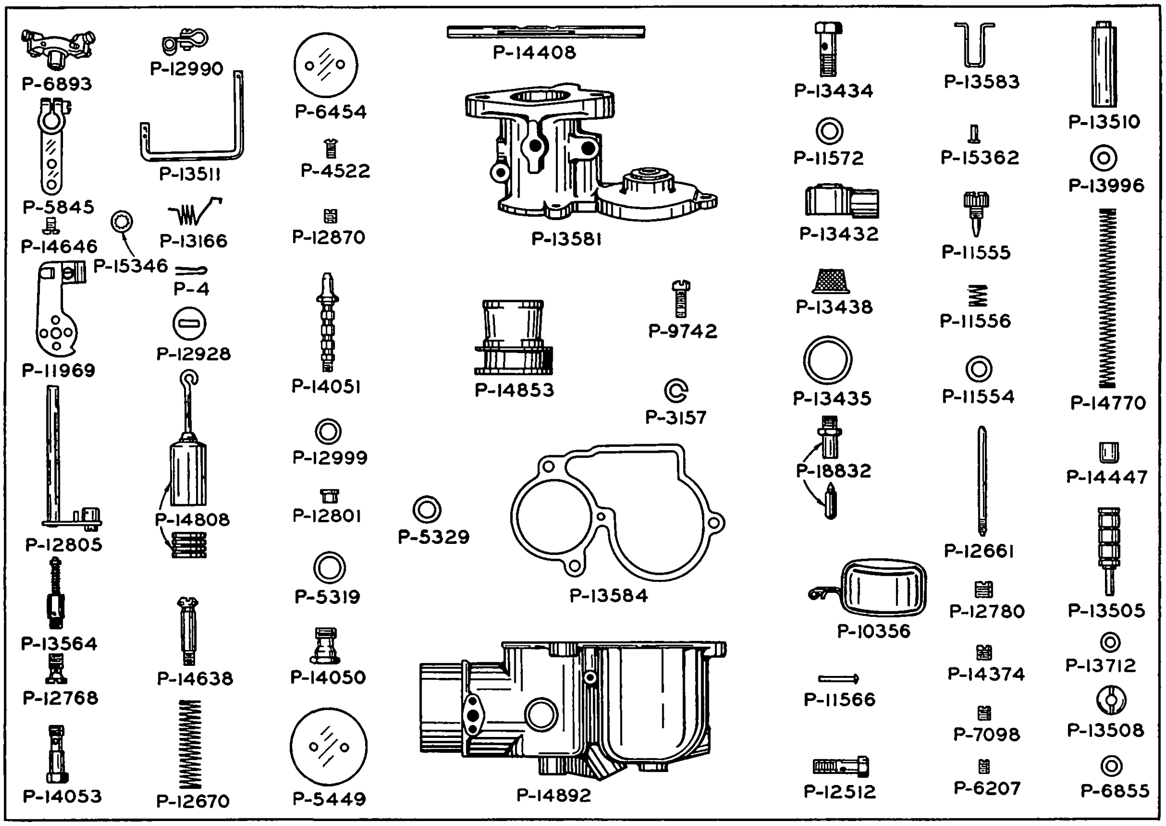
J-3786-F Manifold Fittings—P-4752 Gasket—P-7428 Nuts—P-12700 Studs—P-5364 Lock Washers—P-8715 Thro Rod 21' Long

WILLYS KNIGHT 1925-26 MODEL "66"

3¼" x 4¾"—6 Cylinders

J-3965 UV-2 Carburetor

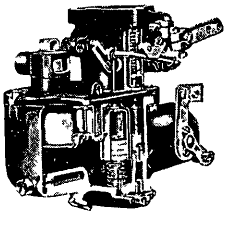
Std Part No	Special Parts Used on Above Model Car	
P-3222	P-3279	Union
P-5845	P-13367	Throttle Lever
P-11969	P-13286	Choke Tube Holder
P-12786	P-12786	025' By-Pass Jet
P-12802	P-12802	Adj Metering Jet (Right Side)
P-12805	P-13289	Choke Lever and Stem
P-12870	P-12870	No 58 H S Bleeder
P-12988	P-12988	31/32' Venturi
P-15384	P-15384	054" Metering Jet (Left Side)



U-1⅛ No. A-13991
Obsolete
SPEC 1⅛ CARB
1" SAE FLANGE

U-2 No. A-14002
Obsolete
1¼ CARB SAE

U-3 No. A-13173
1½" CARB SAE



Notes and References:

Parts U-2 illustrated corresponding U-1⅛ and U 3 parts shown in listing below

Car models having these carburetors with parts exceptions therefor are shown on back of this page

‡Indicates Sub assembly part

PARTS LISTS STROMBERG MODEL "U" STANDARD CARBURETOR (Cast Iron)

U1 ⅛ Part No	U2 Part No	U3 Part No	Name
P-4	P-4	P-4	Pump Lever Cotter Pin
P-1791			Mn Body Attach Sc L Wash
	P-1791	P-1791	Lrg Venturi Tb Set Sc Wsr
	P-2229	P-2229	Lrg Venturi Tb Set Screw
P-3157	P-3157	P-3157	Mn Body Attach Sc L Wash
P-3278	P-3278		Gasoline Union
‡P-3220	‡P-3220		Union Nut
‡P-3279	‡P-3279		Union Nipple
P-3316	P-3324		Carb Attach Cap Screw
P-4522	P-4522	P-4522	Throttle Valve Screw
P-14836	P-4522	P-4522	Choke Valve Screws
P-5319	P-5319	P-5319	Main Dischg Jet Plug Gask
P-12999	P-5329	P-5329	Main Discharge Jet Gasket
P-13111			Aux Needle Valve Spring
P-14369	P-5449	P 15629	Choke Valve (Complete)
P-5845	P-5845	P-14727	Throttle Lever (Complete)
‡P-3199	‡P-3199	‡P-3199	Throt Lever Clamp Screw
P-6207	P-6207	P-6207	High Speed Bldr Chan Plug
P-14367	P-6454	P-5436	Throttle Valve (VAR)
P-6855	P-6855	P-6855	High Spd Ndl Valve Gasket
P-6855	P-6855	P-6855	By Pass Metrng Jet Gasket
P-6855	P-6855	P-6855	Pump Discharge Jet Gasket
P-6893	P-6893	P-13245	Throt Stop with Scs (Comp)
‡P-47	‡P-47	‡P-2266	Throt Stop Clamp Screw
‡P-12375	‡P-12375	‡P-12375	Throttle Stop Set Screw
	P-7098	P-7098	Idle Air Bleeder Chanl Plug
P-9394			Aux Ndl Valve Spg Washer
P-13133	P-9742	P-13133	Main Body Attach Screw
P-12525	P-10356	P-10356	Float with Lever
P-11250	P-11250	P-11250	Pump Lever Washer
P-11554	P-11554	P-11554	Idle Needle Valve Spg Wash
P-11555	P-11555	P-11555	Idle Needle Valve
P-11556	P-11556	P 11556	Idle Needle Valve Spring
P-11566	P-11566	P 11566	Float Fulcrum Pin
P-11572	P-11572	P-11572	Strainer Body Bolt Gasket
P-11572	P-11572	P-11572	Float Ndl Valve Seat Gasket
P-11969	P-11969	P-11927	Choke Tube Hldr with Screw
‡P-11561	‡P-11561	‡P-11561	Chk Control Tube Clamp
‡P-12868	‡P-12868	‡P-12868	Chk Ctl Tube Clp Screw
‡P-8806	‡P-8806	‡P-8806	Chk Ctl Tb Clp Screw Nut
P-12518	P-12661	P-12744	Idle Tube
P-12520	P-12670	P-12718	Pump Piston Spring
P-12768	P-12768	P-12768	By-Pass Met Jet(Ec) (VAR)
	P-12780	P-12780	Idle Discharge Hole Plug
P-12780	P-12780	P-14617	Idle Discharge Channel Plug
P-14670	P-12801	P-14670	Main Discharge Jet Nut
P-12802	P-12802	*P-12512	High Spd Ndl Valve (Comp)
‡P-1503	‡P-1503		High Spd Ndl Valve Pkng
‡P-12803	‡P-12803		High Spd Ndl V Pkng Nut
P-14829	P-12805	P-15216	Chk Lev with Stem (Comp)
‡P-10981	‡P-10981	P-12867	Chk Lev Wire Clp Screw
P-12870	P-12870	P-12870	H S Air Bleeder (VAR)
P-12928	P-12928	P-12928	Pump Piston Link Washer
P-13445	P-12990	P-14826	Econ Lever with Roller
‡P-12529	‡P-12529	‡P-12529	Econ Lever Clamp Nut
‡P-284	‡P-284	‡P-284	Econ Lever Clamp Screw
P-12999	P-12999		Main Discharge Jet Gasket
P-14711	P-13166	P-12673	Pump Lever Spring
P-13432	P-13432	P-13432	Strainer Body
P-13434	P-13434	P-13434	Strainer Body Bolt
P-13435	P-13435	P-13435	Strainer Body Gasket
P-13438	P-13438	P-13438	Strainer
	P-13505	P-14461	Vacuum Econ Piston
	P-13508	P-13508	Vacuum Econ Pstn Slv Plug
	P-13510	P-14462	Vacuum Econ Piston Sleeve
P-12509	P-13564	P-13564	Econ Needle Valve (Comp)
‡P-10173	‡P-10173	‡P-10173	Econ Needle Valve Washer
‡P-8344	‡P-8344	‡P-8344	Econ Ndl Valve Open Wsr
‡P-12507	‡P-13551	‡P-13551	Econ Needle Valve Spring
P-14370	P-13581	P-14282	Throttle Valve Body (VAR.)
P-13439	P-13583	P-13583	Float Lever Support
P-14373	P-13584	P-14465	Main Body Gasket
	P-13712	P-13712	Vacuum Econ Piston Gasket
	P-13996	P-13996	Vac Econ Pstn Gsk (on top)
P-14050	•P-14050	P-14050	Main Discharge Jet Plug
P-14651	P-13511	P-14460	Pump Lever
P-14697	P-14051	P-14739	Main Discharge Jet (VAR)
P-14053	P-14053	P-14053	Pump Discharge Jet (VAR)
	P-14374		By Pass Channel Plug
		P-14374	Econ Gas Channel Plug
P-12812	P-14408	P-14728	Throttle Stem
	P-14447	P-14447	Vacuum Econ Pstn Spg Cup
P-14617	P-14617	P-14617	Main Gas Channel Plug
P-14665	P-14638	P-14638	Pump Piston Valve
P-14646	P-14646	P-15779	Chk Tb Hldr Attach Screw
	P-14770	P-14770	Vacuum Econ Piston Spring
P-14471	P-14808	P-14783	Pump Piston and Sleeve
P-14372	P-14853	P-14754	Large Venturi Tube (VAR)
P-14371	P-14892	P-14443	Main Body
P-15346	P-15346	P-15346	Chk Tb Hldr Attach Sc L W
P-15362	P-15362	P-15362	Float Lever Support Rivet
P-18831	P-18832	P-18831	Float Ndl Valve and Seat
P-2475	None shown		Mn Body Attach Sc (small)
P-12536	None shown		Auxiliary Cam with Screw
‡P-2866	None shown		Aux Cam Clamp Screw
P-12667	None shown		Aux Needle Valve Point
P-12668	None shown		Economizer Push Rod
P-12682	None shown		Aux Needle Valve Lift Wshr
P-12684	None shown		Aux Needle Valve Pt Guide
P-12687	None shown		Auxiliary Control Lever
P-14126	None shown		Choke Valve Plate
P-14138	None shown		Choke Stem Block
P-14357	None shown		Aux Needle Valve Seat
P-14374	None shown		Aux Gas Chan Screw Plug
P-14397	None shown		Aux Gas Nozzle Set Screw
P-14645	None shown		Aux Ctl Lev Fulcrum Screw

J-4209 G	U 1⅛	Complete Gasket Set
J-4518 G	U-2	Complete Gasket Set—Cast Iron
J-4519-G	U-3	Complete Gasket Set—Cast Iron

*NOTE On parts marked (VAR) size must be specified when ordering

STANDARD SPECIFICATIONS

A-13991 U-1⅛ Carburetor

P-12518	Idle Tube, No 70 Feed, No 60 Top Hole
P-12768	034′ By Pass Jet
P-12870	No 65 H S Bleeder
P-14053	No 56 Pump Meter Jet
P-14367	Throttle Valve (21°)
P-14370	Thro Valve Body with No 58-70 Idle Holes, Flange Tapped 5/16-18″
P-14372	31/32 Venturi
P-14697	No 32 Main Disc Jet

A-14002 U-2 Carburetor
Cast Iron—Vacuum Economizer

P-6454	Throttle Valve (20°)
P-12661	Idle Tube, No 68 Feed No 62 Top Hole
P-12768	047 By Pass Jet
P-12870	No 65 H S Bleeder
P-13581	Thro Valve Body with No 56-70 Idle Holes, Flange Tapped ⅜-16″
P-14051	No 32 Main Disch Jet
P-14053	No 67 Pump Meter Jet
P-14853	1 1/32″ Venturi

FRANKLIN "145" AND "147" 1929-'30-'31 (44712)
3½″ x 4¾″ 6 Cyl
A-13173 U-3 Carburetor (Cast Iron)

P-5436	21½° Throttle Valve
P-12512	070′ Metering Jet
P-12744	Idle Tube, No 68 Feed No 62 Top Hole
P-12768	049″ By Pass Jet
P-12870	No 64 H S Bleeder
P-14053	No 60 Pump Meter Jet
P-14282	Thro Valve Body with No 53-64 Idle Holes Flange Tapped ⅜-16′
P-14739	A-34 B-28 Main Disch Jet
P-14754	1⅛″ Venturi

STANDARD SETTINGS FOR U-1⅛-2-3 CAST IRON CARBURETORS

Throttle Valve Location U-1⅛-2—Lower lip of throttle valve to be flush plus or minus 004 with top of lower idle holes
U-3 Exposure of lower idle hole with valve closed 046 plus or minus 004 or No 58 drill go and No 56 drill no go gauge

Pump Capacity U-2—10 to 14 CC per 10 strokes
U-3—6 to 9 CC per 10 strokes
Pump Travel U-2-3—¾″
Economizer Needle U-1⅛—To start to open when throttle valve is cracked open with a 228 or No 1 drill

PARTS AND SETTINGS EXCEPTIONS MODEL U STANDARD CARBURETOR (Cast Iron)
(Passenger Cars)

DURANT "407" 1930 (29766)
3⅞″ x 4¼″—6 Cyl
No. A-13761—U-1 ⅛″ Carburetor (With Mechanical Economizer)

Std Part No.	Special Part	Used on Above Model Car
P-5845	P-14751	Throttle Lever
P-11969	P-12680	Choke Tube Holder
P-12802	P-12512	Metering Jet 057′
P-12518	P-13715	Idle Tube, 70 Feed, 62 Top Hole
P-12768	P-12768	By-Pass Jet 030″
P-12812	P-15188	Throttle Lever Stem
P-14053	P-14053	Pump Metering Jet No 60
P-14370	P-14370	Throttle Valve Body with No 56-67 Idle Holes, Flange Tapped 5/16-18″
P-14371	P-15191	Main Body
P-14372	P-14372	Venturi Tube 15/16″
P-14697	P-15176	Main Discharge Jet No 40
P-14829	P-14411	Choke Lever and Stem
None Shown	P-12668	Economizer Push Rod

NOTE Pump Capacity 5 to 7 CC per 10 strokes

NOTE Economizer Setting, No 9 drill

NOTE Throttle Valve Location 010 plus or minus 002 above top of lower idle hole

FRANKLIN "130" 1929 (43295)
3¼″ x 4¼″—6 Cyl.
No A-13182 U-2 Carburetor (Code No 20-3)

Std Part No.	Special Part	Used on Above Model Car
P-5449	P-10986	Choke Valve
P-5845	P-12695	Throttle Lever
P-6893	P-10004	Throttle Stop
P-11969	P-12680	Choke Tube Holder
P-12802	P-12512	Metering Jet 061
P-12661	P-14234	Idle Tube 70 Feed, 62 Top Hole
P-12768	P-12768	By-Pass Jet 036′
P-12805	P-14270	Choke Lever and Stem
P-13581	P-13581	Throttle Valve Body with No 55-64 Idle Holes Flange Tapped ⅜-16′
P-13585	P-13585	Venturi Tube 1
P-14408	P-14248	Throttle Stem
P-14892	P-14122	Main Body
P-18832	P-19553	Needle and Seat
None Shown	P-5015	Throttle Stop Set Screw
None Shown	P-10946	Throttle Flange Stud
None Shown	P-11083	Throttle Flange Stud Nut
None Shown	P-11084	Throttle Flange Stud Washer
None Shown	P-13924	Throttle Lever

NOTE Pump Capacity 6 to 9 CC per 10 strokes

FRANKLIN "145-147" 1932 (56281)
3½″ x 4¾″ 6 Cyl
No A 17033 U-3 Carburetor (Code No 20 2)

Std Part No	Special Part	No Used on Above Model Car
P-12512	P-12512	Metering Jet 073″
P-13508	P-17211	Plug
P-14053	P-14053	Pump Metering Jet No 57
P-14282	P-17203	Throttle Valve Body with No 53-64 Idle Holes, Flange Tapped ⅜-16′
P-14443	P-17343	Main Body
P-14460	P-17230	Pump Lever
P-14754	P-17217	Venturi Tube 1⅛′
P-14781	P-14728	Throttle Lever Stem
P-14783	P-17260	Piston and Sleeve
P-15629	P-17946	Choke Valve
None Shown	P-13170	Fuemer Cover
None Shown	P-13171	Fuemer Cover Gasket
None Shown	P-11724	Fuemer Cover Screw
None Shown	P-12606	Fuemer Cover Screw Lockwasher
None Shown	P-17215	Pump Link Eye
None Shown	P-17272	Bushing Retainer
None Shown	P-17336	Vent Tube
None Shown	P-17337	Vent Tube Bushing
None Shown	P-17210	Bushing

NOTE Pump Capacity 8 to 11 CC per 10 strokes

FRANKLIN '145-147" 1931 (56275)
3½″ x 4¼ —6 cyl
No A 16333 U 3 Carburetor

Std Part No	Special Parts	Used on Above Model Car
P-12512	P-12512	Main Metering Jet 073
P-13508	P-17211	Vacuum Econ Piston Sleeve Plug
P-14053	P-14053	Pump Metering Jet No 64
P-14282	P-17203	Throttle Valve Body No 53 64 Idle Holes Flange tapped ⅜ 16
P-14443	P-17343	Main Body
P-14460	P-17230	Pump Lever
P-14754	P-17217	Large Venturi Tube 1⅛
P-14783	P-17260	Pump Piston and Sleeve
None Shown	P-17210	Econ Piston Sleeve Bushing
None Shown	P-17215	Pump Link Eye
None Shown	P-17272	Pump Piston Link Bushing Retainer
None Shown	P-17336	Pump Piston Vent Tube
None Shown	P-17337	Puump Piston Vent Tube Bushing

PARTS AND SETTINGS EXCEPTIONS MODELS U-1⅛-2-3 STANDARD CAST IRON CARBURETORS
(Trucks)

STEWART 1930 MODEL "30" (B-22238)
3¾" x 4¼" 4 Cyl.
A-14531 U-1⅛" Carburetor

Std Part No.	Special Part	Used on Above Model Truck
P-3278	P-3279	Union Nipple
P-5845	P-16061	Thro Lever with Screw
P-12518	P-13176	Idle Tubes 68 Feed, 60 Top Hole
P-12768	P-12768	Blank By Pass Jet
P-12802	P-13091	Adj Nozzle Attach with 069 Restriction
P-12812	P-15309	Thro Stem
P-14370	P-15310	Thro Valve Body with No 56-70 Idle Holes, Fl Tapped ⁵⁄₁₆-18"
P-14371	P-15361	Main Body
P-14372	P-14372	29/32" Venturi
None Shown	P-6406	Plug
None Shown	P-6184	Plug
None Shown	P-14898	Stud Bolts
None Shown	P-14899	Loose Lever
None Shown	P-5837	Loose Lever Stop

NOTE No Syringe Pump or Econ Needle Used

STEWART 1930 MODEL "30-X" (B-20279)
2⅞" x 4¾" 6 Cyl.
A-14521 U-1⅛" Carburetor

Std. Part No.	Special Part	Used on Above Model Truck
P-3278	P-3279	Union Nipple
P-5845	P-7085	Thro Lever with Screw
P-11969	P-14070	Tube Holder
P-12768	P-12768	026" By Pass Jet
P-12802	P-13091	Adj Nozzle Attach with 069" Restrictions
P-12812	P-15304	Thro Stem
P-13445	P-12534	Pump Lever with Roller
P-14053	P-14053	No 60 Pump Met Jet
P-14370	P-14370	Thro Valve Body 58-70 Idle Hole, Fl. Tapped ⁵⁄₁₆-18"
P-14372	P-14372	27/32" Venturi
None Shown	P-14899	Loose Lever
None Shown	P-5837	Loose Lever Stop
None Shown	P-14898	Studs

NOTE Economizer Setting ¼" Drill

STEWART 1931 "30-X AND 40-X" (B-22237)
3" x 4¾" 6 Cyl.
A-14681 U-1⅛" Carburetor

Std Part No.	Special Part	Used on Above Model Truck
P-3278	P-3221	Union Elbow
P-5845	P-7085	Thro Lever with Screw
P-12768	P-12768	026' By Pass Jet
P-12802	P-13091	Adj Nozzle Attach with 069" Restrictions
P-12812	P-16069	Thro Lever Stem
P-13445	P-12534	Pump Lever and Roller
P-14053	P-14053	No 60 Pump Met Jet
P-14370	P-14370	Thro Valve Body with No 56-70 Idle Holes Fl Tapped ⁵⁄₁₆-18"
P-14372	P-14372	29/32' Venturi
None Shown	P-14898	Stud Bolts
None Shown	P-14899	Thro Lever Stem
None Shown	P-5837	Loose Lever Stop

NOTE Economizer Setting ¼" Drill
NOTE Pump Capacity 6 to 10 CC per 10 Strokes

REPLACEMENT EQUIPMENTS

PARTS AND SETTINGS EXCEPTIONS MODELS U-1⅛-2-3 STANDARD CAST IRON CARBURETORS

(Passenger Cars and Trucks)

AUBURN 1930-31 MODEL "8-93" & "8-95"

2⅞"x4¾ —8 Cylinder (Lyc Eng)

J-4105 U-3 Cast Iron Carburetor and Equipment (Code No 17-10)

Std Part No.	Special Part	Used on Above Model Car
P-11927	P-12677	Choke Tube Holder
P-12512	P-12512	No 067 Main Metering Jet
P-12695	P-7215	Throttle Lever on Left Side
P-13245	P-7041	Throttle Stop
P-14443	P-14283	Main Body
P-14727	P-12428	Throttle Loose Lever
P-14727	P-17287	Throttle Loose Lever Stop
P-14728	P-13131	Throttle Stem
P-15216	P-12741	Choke Lever and Stem
P-15629	P-6050	Choke Valve

NOTE Throttle Valve Location, Flush plus or minus 004

EQUIPMENT

1—P 4753 Gasket

CHEVROLET 1930 UNIVERSAL PKG EQUIPT

3-5/16 x 3¾" 6 Cyl

A-14591 U-1⅛ Carburetor

Std Part No	Special Part	Used on Above Model Car
P-5845	P-7085	Thro Lever and Screw
P-11969	P-14070	Tube Holder and Screw
P-12518	P-13715	Idle Tube 70 Feed, 62 Top Hole
P-12768	P-12768	030 By Pass Jet
P-12812	P-15304	Thro Stem
P-12870	P-12870	No 60 H S Bleeder
P-14053	P-14053	No 67 Punp Met Jet
P-14370	P-15320	Thro Val Body with No 56 66 Idle Holes Fl Drilled 11/32
P-14372	P-14372	⅞ Venturi
P-14697	P-15176	No 40 M D Jet
P-15371	P-15341	Main Body
None Shown	P-14084	Loose Lever
None Shown	P-5837	Loose Lever Stop

NOTE Pump Capacity 5 to 9 CC per 10 Strokes
NOTE Economizer Setting 13/64 Drill

EQUIPMENT

P-4094-F Fittings—P-6592 Lock Washers—P-79 Cotter Pin—P-13233 Cap Screws—P-14088 Cotter Pin—P-4751 Gasket—P-15022 Gaskets—P-15345 Air Cleaner—P-11 Rd Hd Mach Screw

CHRYSLER 1930 MODEL "CJ" PKG EQUIPT.

3⅛ x 4⅛ 6 Cyl

A-14581 U-1⅛" Carburetor

Std Part No	Special Part	Used on Above Model Car
P-12812 P-6893 P-5845	P-14399	Thro Lever and Stem
P-11969	P-12680	Tube Holder
P-12802	P-12512	056 Meter Jet
P-12870	P-12870	No 56 H S Bleeder
P-14370	P-14370	Thro Valve Body No 58-70 Idle Hole, Flange Tapped 5/16-18"
P-14371	P-15191	Main Body
P-14697	P-15308	No 32 M D Jet
P-14829	P-14411	Air Horn Lever and Stem

NOTE Thro Valve Location Flush plus or minus 002

EQUIPMENT

P-15339 Gas Line—P-15022 Gasket

DE SOTO 1930 MODEL "CK"

3⅛" x 4⅛" 6 Cyl

A-14581 U-1⅛" Carburetor

See Chrysler CJ for specification

DODGE DD 6 1930

3⅛ x 4⅛ 6 Cyl

A-14581 U-1⅛" Carburetor

See Chrysler ' CJ ' for specification

GRAHAM 1931 'STD 8"

3⅛ x 4" 8 Cyl

J-4247 U-3 Carburetor (Cast Iron) and Equipt

Std Part No	Special Part	Used on Above Model Car
P-11927	P-16255	Tube Holder
P-12512	P-15384	062 Meter Jet
P-12768	P-12768	044 By Pass Jet
P-12870	P-12870	No 56 H S Bleeder
P-14282	P-14282	Thro Valve Body with No 55-66 Idle Holes Fl Drilled 13/32
P-14443	P-14283	Main Body
P-14739	P-14739	A 30 B-28 Main Dis Jet
P-14727	P-17586	Thro Lever
P-14728	P-17808	Thro Stem
P-15216	P-17255	Air Horn Lever and Stem
P-15629	P-15269	Air Horn Valve
None Shown	P-3221	Union Elbow
None Shown	P-9961	Sliding Block
None Shown	P-7170	Cotter Pin

NOTE Pump Capacity 10 to 12 CC per 10 Strokes
NOTE Thro Valve Location Flush plus or minus 004

EQUIPMENT

P-4753 Gasket—P-79 Cotter Pin

GRAHAM 1932 "BLUE STREAK"

3⅛' x 4" 8 Cyl

J-4246 U-3 (Cast Iron) Carburetor and Equipt (Code No 9-26)

Std Part No	Special Part	Used on Above Model Car
P-11927	P-16255	Tube Holder
P-12512	P-15384	066 Meter Jet
P-12768	P-12768	044' By Pass Jet
P-12870	P-12870	No 56 H S Bleeder
P-13245	P-7041	Thro Stop
P-14282	P-14282	Thro Valve Body with No 56-70 Idle Holes Fl Drilled 13/32'
P-14727	P-12115	Thro Lever
P-14728	P-17809	Thro Stem
P-14739	P-14739	A-30 B 28 Main Disch Jet
P-15216	P-17255	Air Horn Lever and Stem
None Shown	P-3279	Union Nipple
None Shown	P-17588	Thro Lever

NOTE Thro Valve Location Flush plus or minus 004
NOTE Pump Capacity 10 to 12 CC per 10 Strokes

EQUIPMENT

P-79 Cotter Pin—P-4753 Gasket

GRAHAM 1931 "SPECIAL 8"

3¼" x 4½" 8 Cyl

J-4219 U 3 Carburetor (Cast Iron) and Equipt (Code No 9-25)

Std Part No	Special Part	Used on Above Model Car
P-11927	P-16255	Tube Holder
P-12512	P-15384	068 Meter Jet
P-12768	P-12768	044 By Pass Jet
P-12870	P-12870	No 56 H S Bleeder
P-13245	P-7041	Thro Stop
P-14053	P-14053	No 58 Pump Met Jet
P-14282	P-14282	Thro Valve Body with No 56-66 Idle Holes Fl Drilled 13/32"
P-14443	P-14283	Main Body
P-14727	P-17253	Thro Lever
P-14728	P-17808	Thro Stem
P-14739	P-14739	A-30 B-28 Main Jet
P-14754	P-14754	1 3/16" Venturi
P-15216	P-17255	Air Horn Lever and Stem
P-15629	P-15269	Air Horn Valve
None Shown	P-3279	Union Nipple
None Shown	P-8961	Sliding Block
None Shown	P-6986	Washer
None Shown	P-7170	Cotter Pin

NOTE Pump Capacity 10 to 15 CC per 10 Strokes
NOTE Thro Valve Location Flush plus or minus 004

EQUIPMENT

J 4219-F Fittings—P-4753 Gasket—P-4754 Gasket—P-7428 Nuts—P-5364 Lock Washers—P-16112 Air Cleaner and Silencer—P-17254 Hand Control Push Rod—P-7170 Cotter Pin—P-8954 Gas Line

REPLACEMENT EQUIPMENTS

PARTS AND SETTINGS EXCEPTIONS MODELS U-1⅛-2-3 STANDARD CAST IRON CARBURETORS (Continued)
(Passenger Cars and Trucks)

GRAHAM 1933 STD "8" MODEL "64"
3⅛"x4"—8 Cylinder

J-4290 U-3 Carburetor (Cast Iron)

Std Part No	Special Part No	Used on Above Model Car
P-5436	P-5436	20° Throttle Valve
P-11927	P-16255	Choke Tube Holder
P-12512	P-15384	064′ Metering Jet
P-12678	P-12678	044 By-Pass Jet
P-12695	P-17588	Throttle Lever, Right Side End of Stem
P-12870	P-12870	No 56 H S Bleeder
P-14282	P-14282	Throttle Valve Body with No 56-66 Idle Holes and Flange Drilled 13/32′
P-14443	P-14283	Main Body
P-14727	P-12115	Throttle Lever on Right Side
P-14728	P-14781	Throttle Stem
P-14739	P-14739	No 30-28 Main Discharge Jet
P-15216	P-17255	Choke Lever and Stem on Left Side
None Shown	P-3222	Elbow Union

NOTE Pump Capacity 10 to 12 CC per 10 strokes

NOTE Throttle Valve Location Flush plus or minus 004

REO FLYING CLOUD "C" 1929
3⅜" x 5 6 Cyl.

J-4060 U-3 Cast Iron Carburetor (Code No 12-14)

Std Part No	Special Part	Used on Above Model Car
P-11927	P-12823	Tube Holder
P-12512	P-13395	061 Meter Jet
P-12768	P-12768	042′ By Pass Jet
P-12870	P-12870	No 60 H S Bleeder
P-14053	P-14053	No 64 Pump Meter Jet
P-14282	P-14282	Thro Valve Body with No 55-63 Idle Holes Fl Tapped ⅜-16′
P-14727	P-5926	Thro Lever and Screw
P-14739	P-15535	No 28 Main Disch Jet
P-14754	P-14754	1$\frac{3}{16}$′ Venturi
P-15216	P-15537	Air Horn Lever and Stem
P-15629	P-14356	Air Horn Valve
None Shown	P-3761	Union

NOTE Throttle Valve Location Flush plus or minus 004

NOTE Pump Capacity 10 CC per 10 Strokes

EQUIPMENT

J-4060-F Manifold Fittings—P-5762 Ball Joint—P-14684 Air Pipe—P-14687 Air Horn Elbow—P-4753 Gaskets—P-7441 Studs—P-3324 Cap Screws—P-14663 Flex Tubing—P-14685 Bracket—P-14683 Nuts—P-3385 Cotter Pin

WILLYS SIX 1929-'30 "98B"
3¼ x 3⅞ 6 Cyl

J-4082 U-1⅛" Carburetor and Equipt

Std Part No	Special Part	Used on Above Model Car
P-5845	P-7085	Thro Lever and Screw
P-12518	P-13715	Idle Tube 70 Feed, 62 Top Hole
P-12768	P-12768	029′ By Pass Jet
P-12802	P-12512	058′ Meter Jet
P-12870	P-12870	No 56 H S Bleeder
P-14370	P-14370	Thro Valve Body with No 55-66 Idle Holes, Fl Drilled 11/32′
P-14371	P-15421	Main Body
P-14697	P-15308	No 32 Main Disch Jet
None Shown	P-15548	Loose Thro Lever
None Shown	P-5837	Loose Lever Stop
None Shown	P-14397	Aux Gas Nozzle

NOTE Pump Capacity 6 to 8 CC per 10 Strokes

EQUIPMENT

P-15022 Gasket

WILLYS KNIGHT 1929-'30, "70B" & "87"
2$\frac{15}{16}$" x 4⅜" 6 Cyl

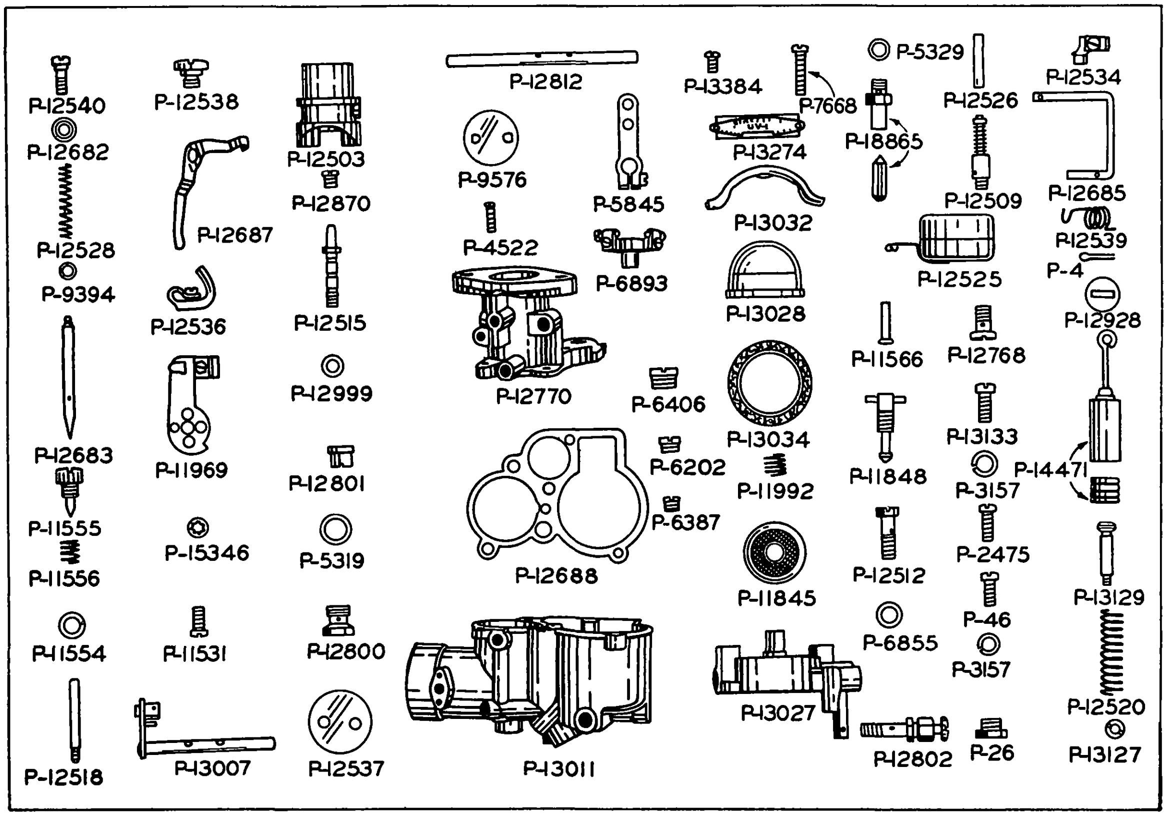
J-4052-A U-1⅛" Carburetor and Equipt

Std Part No	Special Part	Used on Above Model Car
P-3278	P-3761	Union
P-5845 P-6893 P-12812	P-15789	Thro Lever and Stem
P-12518	P-13715	Idle Tube 70 Feed 62 Top Hole
P-12768	P-12768	027 By Pass Jet
P-12802	P-12512	059′ Meter Jet
P-12870	P-12870	No 56 H S Bleeder
P-14053	P-14053	No 65 Pump Meter Jet
P-14370	P-14370	Throttle Valve Body 58-70 Idle Holes, Flange Drilled 11/32′
P-14372	P-14372	$\frac{15}{16}$′ Venturi
P-14697	P-14697	No 40 Main Dis Jet
None Shown	P-5869	Thro Lever

NOTE Pump Capacity 5½ to 7 CC per 10 Strokes

EQUIPMENT

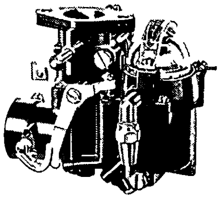
P-15022 Gasket—P-6171 Wire Connector



UV-1 N . A-11971
1' CARB SAE

UV-2 No. A-11972
1¼" CARB SAE

UXV-2
N . A-12152
1¼" CARB SAE



Notes and References: Parts UV-1 illustrated, corresponding UV-2 and UXV-2 parts shown in listing below

†These parts not illustrated

‡Indicates Sub-assembly part.

PARTS LISTS STROMBERG MODELS "UV-1", "UV-2" AND "UXV-2" STANDARD CARBURETORS

UV-1 Part No	UV 2 Part No	UXV-2 Part No	Name
P-4	P-4	P-4	Pump Lever Cotter Pin
P-26	P-26	P-26	Vis-A-Gas Gas Connec Plg
P-46	P-46	P-46	Vis-A-Gas Strn Bl S Cp Sc
P-2475	P-2475	P-2475	Vis-A-Gas Flt Chb Cv Scr
P-3157	P-3157	P-3157	Main Body At Sc L'washer
P-3222	P-3222	P-3222	Gasoline Elbow Union
‡P-3221	‡P-3221	‡P-3221	Union Elbow
‡P-3220	‡P-3220	‡P-3220	Union Nut
P-3316	P-3324	P-3324	Carb Attach Cap Screws
P-4522	P-4522	P-4522	Throttle Valve Screw
P-4522	P-4522	P-4522	Choke Valve Screw
P-5319	P-5319	P-5319	Main Dischg Jet Plug Gskt
P-5329	P-5329	P-5329	Float Ndl Valve Seat Gskt
P-5845	P-5845	P-5845	Throttle Lever with Screw
‡P-3199	‡P-3199	‡P-3199	Throt Lever Clamp Scr
P-6202	P-6202	P-6202	Idle Discharge Chan Plug
P-6202	P-6202	P-6202	Main Gas Channel Plug
P-6387	P-6387	P-6387	Aux Channel Plugs
P-6406	P-6406	P-6406	Vis-A-Gas Feed Chan Plug
P-6406	P-6387	P-6387	Pump Channel Plug
P-6855	P-6855	P-6855	By-Pass Jet Gasket
P-6855	P-6855	P-6855	High Spd Ndl V Seat Gskt
P-6855	P-6855	P-6855	Metering Jet Gasket
P-6893	P-6893	P-6893	Throttle Stop with Screw
‡P-47	‡P-47	‡P-47	Throt Stop Clamp Screw
‡P-12375	‡P-12375	‡P-12375	Throt Stop Set Screw
P-7668	P-7668	P-7668	Vis-A-Gas F C C Sc (long)
P-9394	P-9394	P-9394	Aux Ndl Valve Spg Wash
*P-9576	P-6454	P-6454	Throttle Valve (VAR)
P-11531	P-11531	P-11531	Chk Tb Hldr Attach Screw
P-11554	P-11554		Idle Needle Valve Washer
P-11555	P-11555	P-14196	Idle Needle Valve
P-11556	P-11556	P-14768	Idle Needle Valve Spring
P-11566	P-11566	P-11566	Float Fulcrum Pin
P-11845	P-11845	P-11845	Vis-A-Gas Strainer
P-11848	P-13143	P-13143	Vis-A-Gas Drn Vlv (Com)
P-11969	P-11969	P-11969	Ch Tb Hdr with Sc (Com)
‡P-11561	‡P-11561	‡P-11561	Choke Tube Clamp
‡P-12868	‡P-12868	‡P-12868	Choke Tube Clamp Scr
‡P-8806	‡P-8806	‡P-8806	Chk Tb Clamp Scr Nut
P-11992	P-11992	P-11992	Vis-A-Gas Strainer Spring
*P-12503	P-12988	P-12968	Large Venturi Tube(VAR)
P-12509	P-12509	P-12509	Econ Ndl Valve (Comp)
‡P-10173	‡P-10173	‡P-10173	Econ Ndl Valve Washer
‡P-8344	‡P-8344	‡P-8344	Econ Ndl Vlv Op Wash
‡P-12507	‡P-12507	‡P-12507	Econ Ndl Valve Spring
*P-12512	P-12512	P-12512	Metering Jet (VAR)
*P-12515	P-12750	P-12750	Main Discharge Jet (VAR)
P-12518	P-12661	P-12661	Idle Tube
P-12520	P-12670	P-12670	Pump Piston Spring
P-12525	P-10356	P-10356	Float with Lever
P-12526	P-13197	P-12668	Economizer Push Rod .
P-12528	P-13111	P-13111	Aux Needle Valve Spring
P-12534	P-12990	P-12660	Econ Lever with Roller
‡P-12529	‡P-12529	‡P-12529	Econ Lever Clamp Nut
‡P-284	‡P-284	‡P-284	Econ Lever Clamp Screw
P-12536	P-12536	P-12536	Aux Cam with Screw .
‡P-2866	‡P-2866	‡P-2866	Aux Cam Clamp Screw
P-12537	P-5449	P-5449	Choke Valve
P-12538	P-12538	P-12538	Aux Con Lev Fulcrum Scr
P-12539	P-13165	P-12673	Pump Lever Spring
P-12540	P-12674	P-12674	Auxiliary Gasoline Nozzle
P-12682	P-12682	P-12682	Aux Ndl Valve Lift Wash
P-12683	P-12667	P-12667	Auxiliary Needle Valve
P-12685	P-12987	P-12665	Pump Lever
P-12687	P-12658	P-12658	Auxiliary Control Lever
P-12688	P-12666	P-12666	Main Body Gasket
*P-12768	P-12768	P-12768	By-Pass Jet (VAR.)
*P-12770	P-13004	P-12699	Throttle Valve Body(VAR.)
	‡P-9979	‡P-9979	Throttle Stem Bushing
P-12800	P-12800	P-12800	Main Discharge Jet Plug
P-12801	P-12801	P-12801	Main Discharge Jet Nut
P-12802	P-12802	P-12802	High Spd Ndl Vlv (Comp)
‡P-1503	‡P-1503	‡P-1503	High Spd Ndl Vlv Pkng
‡P-12803	‡P-12803	‡P-12803	High S Ndl V Pkng Nut
P-12812	P-13126	P-12747	Throttle Lever Stem
*P-12870	P-12870	P-12870	High Speed Bleeder (VAR.)
P-12928	P-12928	P-12928	Pump Piston Link Washer
P-12999	P-12999	P-12999	Main Dischg Jet Nut Gskt
P-13007	P 12085	P-12805	Chk L with Stem (Comp)
‡P-10981	‡P-10981	‡P-10981	Chk Wire Clamp Screw .
P-13011	P-12872	P-12872	Main Body .
P-13027	P-13142	P-13142	Vis-A Gas Flt Chb Cover.
P-13028	P-13028	P-13028	Vis-A-Gas Strainer Bowl
P-13032	P-13032	P-13032	Vis-A-Gas Strn Bl Strap
†P-13033	P-13144	P-13144	Vis-A-Gas Float Chamber Cover (Comp)
P-13034	P-13034	P-13034	Vis-A-Gas Strn Bowl Gskt
P-13127	P-13137	P-13137	Pump Vlv Reducer(VAR.)
P-13129	P-13129	P-13129	Pump Piston Valve
P-13133	P-13133	P-13133	Main Body at Scrs
P-14471	P-14472	P-14484	Pump Piston and Sleeve
P-15346	P-15346	P-15346	Chk Tb Hldr At Sc L'wshr
P-18865	P-18865	P-18865	Float Ndl Valve and Seat.
	P-6387	P-6387	Economizer Channel Plug
	P-12669	P-12669	Gasket Support
	P-6207	P-6207	High Spd Bldr Chan Plug
	P-7098	P-7098	Idle Channel Plug .
	P-14160	P-14160	Idle Tube Washer .
	P-12811	P-12674	Large Venturi Tb Set Scr
	P-12999	P-12999	Main Discharge Jet Gasket

J-4179-G	UV-1	Complete Gasket Set
J-4180-G	UV-2	Complete Gasket Set
J-4180-G	UXV-2	Complete Gasket Set

*NOTE On parts marked (VAR.) size must be specified when ordering

STANDARD SPECIFICATIONS

A 11971 UV-1 Carburetor

P-9576	Thro Valve (20°)
P-12503	⅞ Venturi
P-12515	No 40 Main Disc Jet
P-12518	Idle Tube No 70 Feed No 60 Top Hole
P-12768	036 By Pass Jet
P-12770	Thro Valve Body with No 56-70 Idle Holes Fl Tapped 5/16-18
P-12870	No 70 H S Bleeder
P-13127	No 66 Syr Reducer

A-11972 UV-2 Carburetor

Mechanical Economizer

P 6454	Thro Valve (20°)
P-12661	Idle Tube, No 68 Feed No 62 Top Hole
P-12750	No 32 Main Dis Jet
P-12768	047 By Pass Jet
P-12870	No 65 H S Bleeder
P-12988	1 1/32 Venturi
P-13004	Thro Valve Body with No 56-70 Idle Holes Fl Tapped ⅜-16
P-13137	No 68 Syr Reducer

A-12152 UXV 2 Carburetor

P-6454	Thro Valve (20°)
P-12661	Idle Tube No 68 Feed No 62 Top Hole
P-12698	1 1/32' Venturi
P-12699	Thro Valve Body with No 56-70 Idle Holes Fl Tapped ⅜-16
P-12750	No 32 Main Disch Jet
P-12768	047" By Pass Jet
P-12870	No 65 H S Bleeder
P-13137	No 68 Syr Reducer

STANDARD SETTINGS FOR UV-1-2 AND UXV-2 CARBURETORS

Thro Valve Location Lower lip of Thro valve to be flush plus or minus 004 with top of lower idle hole

Pump Capacity UV-1—9 to 10 CC per 10 strokes
UV-2 and UXV-2—10 to 14 CC per 10 strokes

Economizer Needle To start to open when Thro valve is cracked open with UV-1 7/32 drill UV-2 UXV-2 228 or 1' drill

Aux Needle Valve Should start to open when choke valve is 10° to 15° from wide open position (Approx 3/32' lift)

REPLACEMENT EQUIPMENTS

PARTS AND SETTINGS EXCEPTIONS MODELS UV-1, UV-2 AND UXV-2 STANDARD CARBURETORS

(Passenger Cars and Trucks)

BUICK 1926 TO 1928 STANDARD SIX

3⅛" x 4½" 6 Cyl

J-3961 UV-1 Carburetor and Equipt

Std Part No	Special Part	Used on Above Model Car
P-3222	P-3221	Union Nipple
P-5845	P-7246	Thro Lever
P-12512	P-12512	049' Meter Jet
P-12515	P-14081	No 40 Main Disch Jet
P-12768	P-12768	028 By Pass Jet
P-12770	P-12770	Thro Valve Body with No 54-68 Idle Holes Fl Drilled 11/32
P-12870	P-12870	No 65 H S Bleeder
P-13007	P-14592	Air Horn Lever and Stem
P-13127	P-13127	No 64 Syr Reducer
None Shown	P-11808	Air Horn Lever Stop
None Shown	P-4752	Flange Gaskets
None Shown	J-3830	Manifold Fittings

NOTE Thro Valve Location 019 plus or minus 004 above top of lower idle hole

EQUIPMENT

P-13470 Thro Conn Lever—P-13459 Thro Conn Rod—P-3279 Union Nipple—P-12229 Gas Line Extension—P-11998 Air Cleaner Bracket—P-8819 Union Nipple—P-79 Cotter Pin—6 of 1¾ Flex Tubing

CHANDLER 1929 "65"

3⅛' x 4¼" 6 Cyl

J-3988 UV-1 Carburetor and Equipt

Std Part No	Special Part	Used on Above Model Car
P-5845	P-11783	Throttle Lever
P-9576	P-9576	18° Thro Valve
P-11969	P-12680	Tube Holder
P-12503	P-12503	15/16 Venturi
P-12515	P-14081	No 40 Main Disch Jet
P-12768	P-12768	028' By Pass Jet
P-12770	P-12770	Thro Valve Body with No 54 68 Idle Holes Fl Tapped 5/16-18
P-12812	P-13365	Thro Lever Stem
P-12870	P-12870	No 65 H S Bleeder
P-13007	P-12725	Air Horn Lever and Stem

NOTE Thro Valve Location 019 plus or minus 004 above top of lower idle hole

EQUIPMENT

P-4751 Gaskets—P-79 Cotter Pin

CHANDLER 1928 MODEL "65"

3⅛' x 4¼" 6 Cyl

J-3976 UV-1 Carburetor and Equipt

Std Part No	Special Part	Used on Above Model Car
P-3222	P-3221	Union Elbow
P-5845	P-7256	Thro Lever
P-9576	P-9576	18° Thro Valve
P-12512	P-12770	Thro Valve Body with No 54-68 Idle Holes Fl Tapped 5/16-18
P-12812	P-14108	Thro Stem
P-12870	P-12870	No 65 H S Bleeder

NOTE Thro Valve Location 019 plus or minus 004 above top of lower idle hole

EQUIPMENT

P-4 Cotter Pin—P-8737 Ball Joint—P-2290 Hex Nuts—P-4751 Gaskets—P-19778 Thro Rod

CHANDLER "ROYAL 75" 1929

3" x 4⅛" 8 Cyl.

J 4001-A UXV-2 Carburetor and Equipt

Std Part No	Special Part	Used on Above Model Car
P-3222	P-4557	Union Elbow
P-6454	P-6454	19½° Thro Valve
P-11969	P-12680	Tube Holder
P-12512	P-12512	059 Meter Jet
P-12699	P-12699	Thro Valve Body with No 56-66 Idle Holes Fl Tapped 5/16-18
P-12768	P-12768	033 By Pass Jet
P-12805	P-13051	Air Horn Lever and Stem
P-12872	P 12872	Main Body with Bell Crank Boss Tapped ⅜ —24 U S F
None Shown	J-4001	Bell Crank Assembly

EQUIPMENT

P-13200 Air Cleaner—P-4752 Gasket

CHEVROLET 1928 "NATIONAL" PKG EQUIPT

3 11/16" x 4" 4 Cyl

A 12021 UV-1 Carburetor (Code No 14 5)

Std Part No	Special Part	Used on Above Model Car
P-3221	P-4557	Union Elbow
P-5845	P-8794	Thro Lever
P-9576	P-9576	18° Thro Valve
P-12512	P-12512	038 Meter Jet
P-12515	P-14081	No 46 M D Jet
P-12768	P-12768	040 By Pass Jet
P-12770	P-12770	Thro Valve Body with No 54-68 Idle Holes, Fl Drilled 11/32"
P-13007	P-13164	A H Lever and Stem
P-13011	P-13121	Main Body with No 65 H S Bleeder
P-13127	P-13127	No 68 Syr Reducer
None Shown	P-11961	A H Lever Stop
None Shown	P-15346	Lock Washer
None Shown	P-9690	A H Lever and Screw
None Shown	P-10836	Thro Lever
None Shown	P-13113	Air Horn Exten

NOTE Thro Valve Location 019 plus or minus 004 above top of lower idle hole

EQUIPMENT

J 3816-F Manifold Fitting—P 4 Cotter Pin—P-11877 Thro Rod (Foot Accel)—P-11880 Thro Rod (Hand Control)—P-13114 Elbow (Breather Conn)—P-4751 Gasket—P-13233 Cap Screws

REPLACEMENT EQUIPMENTS

PARTS AND SETTINGS EXCEPTIONS MODEL UV-1, UV-2 AND UXV-2 STANDARD CARBURETORS (C ntinued)

(Passenger Cars and Trucks)

CHRYSLER 1925 TO 1930 PKG. EQUIPT

Models 58, 50 and 52

3⅝' x 4⅛" 4 Cyl

A 12071 UV-1 Carburetor (Code No 4 25)

Std Part No	Special Part	Used on Above Model Car
P-5845	P-11119	Thro Lever and Screw
P-9576	P-9576	19½° Thro Valve
P-11969	P-12680	Tube Holder
P-12503	P-12503	13/16 Venturi
P-12512	P-12512	038" Meter Jet
P-12515	P-14081	No 40 Main Disch Jet
P-12768	P-12768	Blank By Pass Jet
P-12770	P-12270	Thro Valve Body, 56-70 Idle Hole, F Tapped 5/16-18
P-12802	P-13091	Adj Nozzle Attach with 055' Restriction
P-12812	P-13158	Thro Stem
P-13007	P-12725	Air Horn Lever and Stem
P-13011	P-14241	Main Body
P-13127	P-13127	No 68 Syr Reducer
None Shown	P-11	Rd Hd Mach Screws
None Shown	P-11826	Stud Bolts
None Shown	P-13198	Plug (Econ Push Rod Channel)
None Shown	P-15346	Lock Washers

NOTE Thro Valve Location 008 plus or minus 004 above top of lower idle hole

EQUIPMENT

P-4751 Gasket—P-9882 Hex Nuts—P-8514 Union Elbow—P-13466 Elbow Union

CHRYSLER 1928 MODELS "72" AND "75" PKG EQUIPT.

3¼" x 5" 6 Cyl.

A 12162 UXV 2 Carburetor (Code No 4 23)

Std Part No	Special Part	Used on Above Model Carburetor
P-5845	P-7679	Thro Lever and Screw
P-6454	P-6454	18½° Thro Valve
P-11969	P-12677	Tube Holder
P-12512	P-12512	048 Meter Jet
P-12661	P-13000	Idle Tube 66 Feed, 60 Top Hole
P-12699	P-12671	Thro Valve Body with 1 1/16" Venturi No 52-61 Idle Holes, Fl Tap ⅜-16"
P-12750	P-12963	A-30 B-28 M D Jet
P-12768	P-12768	031" By Pass Jet
P-12805	P-12653	Air Horn Lever and Stem
P-12872	P-14452	Main Body with No 60 H S Bleeder
None Shown	J-3847	Bell Crank Assembly
None Shown	P-10456	Stud Bolts
None Shown	P-15346	Lock Washers

NOTE Thro Valve Location 014 plus 000 minus 008 above top of lower idle hole

EQUIPMENT

P-4752 Gaskets—P-5558 Hex Nuts—P-10019 Thro Rod—P-13200 Air Cleaner—P-8737 Ball Joint—P-10750 Nuts

DURANT 1928

3⅜" x 4¼" 4 Cyl

J-3900 UV-1 Carburetor and Equipt

Std Part No	Special Part	Used on Above Model Car
P-3222	P-3759	Union Nipple
P-5845	P-13237	Thro Lever and Screw
P-6893	P-13245	Thro Stop and Screws
P-9576	P-9576	18° Thro Valve
P-12512	P-12512	038" Meter Jet
P-12515	P-14081	No 40 M D Jet
P-12518	P-13176	Idle Tube 68 Feed 60 Top Hole
P-12768	P-12768	024' By Pass Jet
P-12770	P-12770	Thro Valve Body with No 54-68 Idle Holes Fl Tapped 5/16-18
P-12870	P-12870	No 65 H S Bleeder
P-13127	P-13127	No 70 Syr Reducer
None Shown	P-13024	Thro Lever and Screw

NOTE Thro Valve Locatiton 019 plus or minus 004 above top of lower idle hole

EQUIPMENT

P-79 Cotter Pin—P-4751 Gaskets—P-6068 Washer

DURANT 1929 "60" AND 'D-60"

2⅞" x 4¾" 6 Cyl.

J-4056 UV-1 Carburetor and Equipt

Std Part No	Special Part	Used on Above Model Car
P-3222	P-3761	Union
P-5845	P-11073	Thro Lever and Screw
P-9576	P-9576	18° Thro Valve
P-12503	P-12503	29/32 Venturi
P-12512	P-12512	046 Meter Jet
P-12515	P-14081	No 40 M D Jet
P-12518	P-13176	Idle Tube 68 Feed, 60 Top Hole
P-12768	P-12768	025 By Pass Jet
P-12770	P-12770	Thro Valve Body with No 54-68 Idle Holes Fl Tapped 5/16-18'
P-12870	P-12870	No 65 H S Bleeder
None Shown	P-14575	Thro Lever and Screw
None Shown	P-11826	Studs

NOTE Valve Locatiotn 019 plus or minus 004 above top of lower idle hole

EQUIPMENT

P-4751 Gasket—P-9882 Nuts

ERSKINE ALL MODELS 1928

2¾" x 4½" 6 Cyl.

J-3946-A UV-1 Carburetor and Equipt (Code No 62-3)

Std Part No	Special Part	Used on Above Model Car
P-3222	P-3761	Union
P-5845	P-8217	Thro Lever and Screw
P-12503	P-12503	27/32 Venturi
P-12515	P-12515	No 32 Main Disch Jet
P-12768	P-12768	025 By Pass Jet
P-12770	P-12770	Thro Valve Body with No 54-70 Idle Holes, Fl Tapped 5/16-18
P-12812	P-13368	Thro Stem
P-12870	P-12870	No 60 H S Bleeder
None Shown	P-5744	Loose Thro Lever
None Shown	P-5837	Loose Lever Stop

EQUIPMENT

P-4751 Gasket

ESSEX 1930 "CHALLENGER" PKG EQUIPT

2¼" x 4½" 6 Cyl.

A-14631 UV-1 Carburetor

Std Part No	Special Part	Used on Above Model Car
P-5845	P-5999	Thro Lever and Screw
P-11969	P-13286	Tube Holder
P-12503	P-12503	1 Venturi
P-12515	P-13172	No 40 Main Disch Jet
P-12687	P-15363	Aux Cont Lever
P-12768	P-12770	Thro Valve Body with No 54-66 Idle Holes, Fl Drilled 11/32"
P-12802	P-12512	046 Meter Jet
P-12870	P-12768	026' By Pass Jet
P-13007	P-13302	Air Horn Lever and Stem
None Shown	P-13235	Air Horn Extension

NOTE Pump Capacity 8 to 12 CC per 10 Strokes

EQUIPMENT

P-79 Cotter Pin—P-4751 Gasket—J-4096-F Fittings—P-15349 Taper Plugs—P-15364 Thro Rods—P-15367 Gasket

ESSEX 1928 "SUPER SIX" PKG EQUIPT

2 11/16" x 4½" 6 Cyl

A-12351 UV-1 Carburetor

Std Part No	Special Part	Used on Above Model Car
P-3222	P-8514	Union Elbow
P-5845	P-13377	Thro Lever with Screw
P-11969	P-11546	Tube Holder
P-12503	P-12503	13/16 Venturi
P-12512	P-12512	038 Meter Jet
P-12515	P-13172	No 40 Main Disc Jet
P-12768	P-12768	028' By Pass Jet
P-12770	P-12770	Thro Valve Body with No 53-66 Idle Holes Fl Tapped 5/16-18"
P-12812	P-13158	Thro Stem
P-12870	P-12870	No 60 H S Bleeder
P-13127	P-13127	No 65 Syr Reducer
None Shown	P-15346	Lock Washer

NOTE Thro Valve Location 008 plus or minus 004 above top of lower idle hole

EQUIPMENT

P-3316 Cap Screws—J-3814 Manifold Fittings—P-6281 Air Horn Extension—P-4751 Gaskets—P-11294 Gasket—20' of 1½' Flex Tubing

FALCON KNIGHT "12" 1927-'28

2 15/16" x 3⅞" 6 Cyl

J-3936-A UV-1 Carburetor Equipt

Std Part No	Special Part	Used on Above Model Car
P-3222	P-8515	Elbow Union
P-5845	P-8413	Thro Lever and Screw (Drill 17/64" on 1 3/16 and 1½' Centers)
P-9576	P-9576	18° Thro Valve
P-11969	P-12680	Tube Holder
P-12512	P-12512	046' Meter Jet
P-12515	P-14081	No 40 Main Disc Jet
P-12768	P-12768	025 By Pass Jet
P-12770	P-12770	Thro Valve Body with No 54 68 Idle Holes Fl Tapped 5/16-18"
P-12870	P-12870	No 65 H S Bleeder
P-13007	P-13177	Air Horn Lever and Stem
P-13127	P-13127	No 64 Syr Reducer

NOTE Thro Valve Location 019 plus or minus 004 above top of lower idle hole

EQUIPMENT

P-4751 Gasket—P-13792 Bushing—

REPLACEMENT EQUIPMENTS

PARTS AND SETTINGS EXCEPTIONS MODELS UV-1, UV-2 AND UV-3 STANDARD CARBURETORS (C ntinued)

(Passenger Cars and Trucks)

FEDERAL TRUCK 1928

3⅜ x4⅝" 6 Cyl.

J-3956 UV-2 Carburetor and Equipt

Std Part No	Special Part	Used on Above Model Car
P-3222	P-3221	Union Elbow
P-5845	P-6120	Thro Lever and Screw
P-12512	P-12512	060' Meter Jet
P-12661	P-13078	Idle Tube 68 Feed 60 Top Hole
P-12768	P-12768	040 By Pass Jet
P-12870	P-12870	No 56 H S Bleeder
P-12988	P-12988	1 1/16' Venturi
P-13004	P-13004	Thro Valve Body, 56-70 idle, Flange Tapped ⅜-16
P-13137	P-13137	No 60 Syr Reducer
P-15584	P-13079	No 40 Main Disc Jet
None Shown	P-8791	Thro Lever (Drilled 17/64' on 1¾" Centers)

NOTE Thro Valve Location 012 to 020 above top of lower idle hole

EQUIPMENT

P-4752 Gasket—P-3324 Cap Screws

FORD "A" 1928 AND '29 PKG EQUIPT

3⅞" x 4¼" 4 Cyl

A-12011 UV-1 Carburetor

Std Part No	Special Part	Used on Above Model Car
P-3222	P-13149	Union Nipples
P-4522	P-13453	French Hd Screws
P-5845	P-10974	Thro Lever and Screw
P-9576	P-9576	18½° Thro Valve
P-11969	P-11927	Tube Holder
P-12503	P-12503	⅞' Venturi
P-12512	P-12512	038 Meter Jet
P-12515	P-14081	No 40 M D Jet
P-12768	P-12768	024 By Pass Jet
P-12770	P-12770	Thro Valve Body with No 54-68 Idle Holes, Fl Tapped 5/16-18
P-12812	P-14108	Thro Stem
P-12870	P-13136	No 65 H S Air Reducer
P-13007	P-13151	Air Horn Lever and Stem
P-13011	P-14601	Main Body
P-13127	P-13127	No 68 Syringe Reducer
None Shown	P-13150	Ball Joint Conn
None Shown	P-15346	Lock Washers

NOTE Thro Valve Location 019 plus or minus 004 above top of lower idle hole

EQUIPMENT

P-4751 Gaskets—P-7160 Control with Tube 28" Long—Wire 32" Long

GRAHAM PAIGE 1928 MODEL 6-10 PKG EQUIPT.

Replacing Johnson Carburetor

2⅞" x 4½" 6 Cyl

A-12881 UV-1 Carburetor (Code No 9-13)

Std Part No	Special Part	Used on Above Model Car
P-5845	P-7540	Thro Lever and Screw
P-9576	P-9576	18° Thro Valve
P-12512	P-12512	038' Meter Jet
P-12515	P-14081	No 40 Main Disch Jet
P-12768	P-12768	028" By Pass Jet
P-12770	P-12770	Thro Valve Body with No 54-68 Idle Holes, Fl Drilled 11/32"
P-12812	P-13158	Thro Stem
P-12870	P-12870	No 65 H S Bleeder

NOTE Thro Valve Location 019 plus or minus 004 above top of lower idle hole

EQUIPMENT

P-3759 Union Nipple—P-3760 Union Nut—P-4751 Gasket—P-12273 Air Cleaner—P-13464 Drain Pipe—J-3374-F Manifold Fitting—P-9674 Studs—P-9882 Nuts

MOON 60 AND 62 1927-'28

2⅞" x 4¼" 6 Cyl.

J-3944 UV-1 Carburetor and Equipt

Std Part No	Special Part	Used on Above Model Car
P-3222	P-8514	Union Elbow
P-5845	P-7085	Thro Lever and Screw
P-12512	P-12512	046" Meter Jet
P-12515	P-14081	No 40 Main Disch Jet
P-12768	P-12768	028" By Pass Jet
P-12770	P-12770	Thro Valve Body with No 54-68 Idle Holes Fl Tapped 5/16-18"
P-12870	P-12870	No 65 H S Bleeder
P-13127	P-13127	No 70 Syr Reducer
None Shown	P-7323	Loose Thro Lever
None Shown	P-5837	Loose Lever Stop

NOTE Thro Valve Location 019 plus or minus 004 above top of lower idle hole

EQUIPMENT

P-4751 Gasket—P-14086 Gas Line Extension

NASH SPECIAL SIX 1926 TO 1928 PKG EQUIPT.

3⅛" x 4½" 6 Cyl.; Also, 3¼" x 4½" 6 Cyl.

A-12651 UV-1 Carburetor

Std. Part No	Special Part	Used on Above Model Car
P-3222	P-3221	Union Elbow
P-5845	P-13312	Thro Lever and Screw
P-12503	P-12503	15/16 Venturi
P-12512	P-12512	038" Meter Jet
P-12515	P-14081	No 40 Main Disc Jet
P-12768	P-12768	040" By Pass Jet
P-12770	P-12770	Thro Valve Body 56-70 Idle Hole, Fl Drilled 11/32
P-12812	P-13363	Thro Stem
P-13007	P-13706	Air Horn Lever and Stem
P-13011	P-13221	Main Body with No 65 H S Bleeder
P-13127	P-13127	No 68 Syr Reducer
None Shown	P-11	Rd Hd Screws
None Shown	P-11808	Air Horn Lever Stop
None Shown	J-3776	Manifold Fittings
None Shown	P-4751	Gaskets
None Shown	P-13370	Air Horn Extension
None Shown	P-15346	Lock Washers

EQUIPMENT

P-4 Cotter Pin—P-11145 Ball Joints—P-10617 Thro Conn Lever—P-11322 Choke Rod Extension—P-13704 Thro Conn Rod

NASH 1929 STANDARD SIX PKG EQUIPT

3⅛" x 4" 6 Cyl.

Replacing Marvel Carburetor Only

A-13871 UV-1 Carburetor

Std Part No	Special Part	Used on Above Model Car
P-3222	P-8515	Elbow Union
P-6893	P-13245	Thro Stop
P-9576	P-9576	19° Thro Valve
P-11969	P-13286	Tube Holder
P-12503	P-12503	13/16' Venturi
P-12512	P-12512	047" Meter Jet
P-12515	P-14081	No 40 Main Disch Jet
P-12518	P-13715	Idle Tube 70 Feed, 62 Top Hole
P-12768	P-12768	020" By Pass Jet
P-12770	P-12770	Thro Valve Body with No 56-66 Idle Holes
P-12870	P-12870	No 60 H S Bleeder
P-13007	P-13302	Air Horn Lever and Stem
P-13127	P-13127	No 64 Pump Gas Reducer

EQUIPMENT

P-4 Cotter Pin—P-4751 Gasket—J 4067-F Manifold Fitting—P-14801 Gasket—P-13470 Thro Lever—P-13459 Thro Rod

OLDSMOBILE "F" 1928 PKG EQUIPT

3 /16" x 4⅛ 6 Cyl

A-12301 UV-1 Carburetor

Std Part No	Special Part	Used on Above Model Car
P-3222	P-2714	Street Elbow
P-5845	P-7833	Thro Lever
P-9576	P-9576	18½° Thro Valve
P-11969	P-13286	Tube Holder
P-12512	P-12512	038' Meter Jet
P-12515	P-14081	No 40 Main Disch Jet
P-12768	P-12768	028' By Pass Jet
P-12770	P-12770	Thro Valve Body with No 54-68 Idle Holes, Fl. Tapped 5/16-18"
P-12812	P-13158	Thro Lever Stem
P-12870	P-12870	No 65 H S Bleeder
P-13007	P-13302	Air Horn Lever and Stem
P-13127	P-13127	No 64 Syr Reducer

NOTE Thro Valve Location 019 plus or minus .004 above top of lower idle hole

EQUIPMENT

P-4 Cotter Pin—P-3316 Cap Screws—P-4751 Gaskets—P-13235 Air Horn Extension

PAIGE LATE 1927 AND 1928 "6-45"

2⅞' x 4¾" 6 Cyl

J-3994 UV 1 Carburetor and Equipt

Std Part No	Special Part	Used on Above Model Car
P-3222	P-3279	Gas Union Elbow
P-5845	P-5926	Thro Lever and Screw
P-12512	P-12512	049' Meter Jet
P-12515	P-14081	No 40 Main Disch Jet
P-12768	P-12768	028 By Pass Jet
P-12770	P-12770	Thro Valve Body with No 54 68 Idle Holes, Fl Drilled 11/32'
P-12812	P-13363	Thro Stem
P-12870	P-12870	No 65 H S Bleeder

NOTE Thro Valve Location 019 plus or minus 004 above top of lower idle hole

EQUIPMENT

J-1849-F Manifold Fitting—P-4751 Gasket—P-5878 Studs—P-3187 Nuts—P-9562 Gasket—P-8737 Ball Joint—P-2290 Hex Nut—P-1791 Lock Washer—P-12612 Thro Rod—P-5762 Ball Joint

REPLACEMENT EQUIPMENTS

PARTS AND SETTINGS EXCEPTIONS MODELS UV-1, UV-2 AND UXV-2 STANDARD CARBURETOR (Continued)

(Passenger Cars and Trucks)

PONTIAC 1928 PKG EQUIPT.

3¼" x 3¾" 6 Cyl.

A-12031 UV-1 Carburettor (Code No 13-1)

Std Part No	Special Part Used on Above Model Car	
P-3222	P-8514	Union Elbow
P-5845	P-7246	Thro Lever
P-9576	P-9576	18° Thro Valve
P-11969	P-12680	Tube Holder
P-12512	P-12512	038" Meter Jet
P-12515	P-14081	No 40 Main Disch Jet
P-12768	P-12768	028" By Pass Jet
P-12770	P-12770	Thro Valve Body with No 54-68 Idle Holes, Fl Tapped 5/16-18"
P-12812	P-13173	Thro Stem
P-12870	P-12870	No 65 H S Bleeder
P-13007	P-12725	Air Horn Lever and Stem
P-13127	P-13127	No 68 Syr Reducer
None Shown	P-15346	Lock Washers
None Shown	P-5837	Loose Lever Stop
None Shown	P-12690	Loose Lever

NOTE Thro Valve Location 019 plus or minus 004 above top of lower idle hole

EQUIPMENT

P-4751 Gaskets—P-4 Cotter Pin—P-11815 Choke Wire

REO 1927'-'28-'29 "DA" AND "DC" ½, ¾, AND 1-TON

3⅜"x4" 6 Cyl

J-3957 UXV-2 Carburetor and Equipment (Code No. 12-13)

Std. Part No	Special Part Used on Above Model Car	
P-3222	P-8514	Union Elbow
P-6893	P-7370	Thro Stop
P-12512	P-12512	055" Meter Jet
P-12699	P-12699	Thro Valve Body with No 55-66 Idle Holes, Fl Tapped ⅜-16"
P-12747	P-13126	Thro Stem
P-12750	P-13475	No 32 Main Disch Jet
P-12768	P-12768	041" By Pass Jet
P-13137	P-13313	No 70 Syr Reducer
None Shown	P-12781	Air Horn Extension
None Shown	P-11	Screws
None Shown	P-1791	Lock Washers

NOTE Thro Valve Location 010 plus or minus 004 above top of lower idle hole

EQUIPMENT

P-4752 Gasket—P-3324 Cap Screws—P-12858 Thro Stem Bushing—P-12783 Flex Tubing—P-8786 Cotter Pin

REO 1927-'28 "FA AND GB" 1, 1½, 2 AND 3-TON

3 3/16"x5" 6 Cyl

J-3960 UXV-2 Carburetor Equipt (Cotde No 12-12)

Std. Part No	Special Part Used on Above Model Car	
P-3222	P-8514	Union Elbow
P-5845	P-7679	Thro Lever and Screw
P-11969	P-12677	Tube Holder
P-12512	P-12512	055" Meter Jet
P-12699	P-12699	Thro Valve Body with No 53-64 Idle Holes, Fl Drilled 13/32'
P-12768	P-12768	041" By Pass Jet
P-12805	P-12653	Air Horn Lever and Stem
P-12870	P-12870	No 60 H S Bleeder

NOTE Thro Valve Location 014 to 022 above top of lower idle hole

EQUIPMENT

P-4752 Gasket—P-8786 Cotter Pins—32' of 1" Flex Tubing (Special)—P-13200 Air Cleaner (Special)

WILLYS OVERLAND "WHIPPET" 1926 '27 AND 1928 MODEL "96" PKG EQUIPT.

3⅛"x4" 4 Cyl

A-12051 UV-1 Carburetor

Std. Part No	Special Part Used on Above Model Car	
P-3222	P-8514	Unin Elbow
P-5845	P-13266	Thro Lever and Screw
P-12503	P-12503	¾" Venturi
P-12512	P-12512	038" Meter Jet
P-12515	P-13317	A-46 B-40 Main Dis Jet
P-12768	P-12768	030" By Pass Jet
P-12770	P-12770	Thro Valve Body with No 56 68 Idle Holes, Fl Tapped 5/16-18"
P-12812	P-13158	Thro Stem

NOTE Thro Valve Location 015 plus or minus 004 above top of lower idle hole

EQUIPMENT

P-3316 Cap Screws—P-79 Cotter Pin—P-4751 Gaskets—P-7991 Collar

WILLYS-KNIGHT 1928 "70-A"

2 15/16" x 4⅜" 6 Cyl

J-4005-A UV-1 Carburetor and Equipt (Code No 96-1)

Std. Part No	Special Part Used on Above Model Car	
P-3222	P-8515	Elbow Union
P-5845	P-7085	Thro Lever and Screw
P-9576	P-9576	18° Thro Valve
P-11969	P-12680	Tube Holder
P-12512	P-12512	046' Meter Jet
P-12515	P-14081	No 40 Main Disc Jet
P-12518	P-13176	Idle Tube 68 Feed, 60 Top Hole
P-12768	P-12768	031" By Pass Jet
P-12770	P-12770	Thro Valve Body with No 54-68 Idle Holes Fl Tapped 5/16-18"
P-12870	P-12870	No 65 H S Bleeder
P-13007	P-12725	Air Horn Lever and Stem
None Shown	P-12234	Thro Lever and Screw

NOTE Thro Valve Location 019 plus or minus 004 above top of lower idle hole

EQUIPMENT

P-4751 Gasket—P-4 Cotter Pin

WILLYS OVERLAND "WHIPPET" 1928 MODEL "98" PKG EQUIPT.

3⅛"x3⅞"—6-Cyl

A-12731 UV-1 Carburetor

Std Part No	Special Part Used on Above Model Car	
P-3222	P-8514	Union Elbow
P-5845	P-12232	Thro Lever and Screw
P-9576	P-9576	18½° Thro Valve
P-11969	P-12680	Tube Holder
P-12512	P-12512	038" Meter Jet
P-12515	P-14081	No 40 Main Disch Jet
P-12768	P-12768	028" By Pass Jet
P-12770	P-12770	Thro Valve Body with No 54-68 Idle Holes, Fl Tapped 5/16-18"
P-12812	P-13173	Thro Stem
P-12870	P-12870	No 65 H S Bleeder
P-13007	P-12725	Air Horn Lever and Stem
P-13127	P-13127	No 64 Syr Reducer
None Shown	P-10562	Flange Stud Bolts
None Shown	P-12234	Thro Lever and Screw

NOTE Thro Valve Location 019 plus or minus 004 above top of lower idle hole

EQUIPMENT

P-79 Cotter Pin—P-4751 Gasket—P-7991 Collar—P-9882 Hex Nut—P-13792 Air Cleaner Bushings

WILLYS OVERLAND "WHIPPET" "98A" 1929 PKG EQUIPT.

3⅛"x3⅞"—6-Cyl.

A-13331 UV-1 Carburetor (Code No 79-1)

Std. Part No.	Special Part Used on Above Model Car	
P-3222	P-8514	Union Elbow
P-5845	P-11968	Thro Lever and Screw
P-9576	P-9576	18° Thro Valve
P-12512	P-12512	038" Meter Jet
P-12515	P-14081	No 40 Main Disch Jet
P-12768	P-12768	028' By Pass Jet
P-12770	P-12770	Thro Valve Body with No 54-68 Idle Holes, Fl Tapped 5/16-18"
P-12870	P-12870	No 65 H S Bleeder
P-13011	P-14321	Main Body
P-13127	P-13127	No 68 Syr Reducer
None Shown	P-14115	Air Horn Extension
None Shown	P-12014	Attach Screws
None Shown	P-4627	Lock Washers
None Shown	P-14084	Loose Thro Lever
None Shown	P-5837	Loose Lever Stop

NOTE Thro Valve Location 019 plus or minus 004 above top of lower idle hole

EQUIPMENT

P-3796 Cap Screws—P-4751 Gaskets—P-5878 Studs—P-7218 Bushings—P-9882 Nuts

WILLYS OVERLAND "WHIPPET" "96-A" 1929 PKG EQUIPT

3⅛"x4¾" 4-Cyl

A-13301 UV-1 Carburetor

Std Part No	Special Part Used on Above Model Car	
P-3222	P-8514	Union Elbow
P-5845	P-14236	Thro Lever and Screw
P-9576	P-9576	18° Thro Valve
P-12503	P-12503	13/16" Venturi
P-12512	P-12512	038" Meter Jet
P-12515	P-14081	No 40 Main Dis Jet
P-12768	P-12768	028' By Pass Jet
P-12770	P-12770	Thro Valve Body with No 54-68 Idle Holes Fl Tapped 5/16-18"
P-12870	P-12870	No 65 H S Bleeder
P-13127	P-13127	No 68 Syr Reducer
None Shown	P-14762	Flange Studs
None Shown	P-15346	Lock Washers

NOTE Thro Valve Location 019 plus or minus 004 above top of lower idle hole

EQUIPMENT

P-4 Cotter Pin—P-14364 Drain Pipe—P-4751 Flange Gaskets

WILLYS KNIGHT 1928 MODEL "56"

2 15/16" x 3⅞" 6 Cyl

J-3937-A UV-1 Carburetor and Equipt.

Std Part No	Special Part Used on Above Model Car	
P-3222	P-8515	Union Elbow
P-5845	P-13719	Thro Lever and Screw
P-9576	P-9576	18° Thro Valve
P-12503	P-12503	29/32" Venturi
P-12512	P-12512	049' Meter Jet
P-12515	P-14081	No 40 Main Disch Jet
P-12768	P-12768	028" By Pass Jet
P-12770	P-12770	Thro Valve Body with No 54-68 Idle Holes Fl Tapped 5/16-18"
P-12870	P-12870	No 65 H S Bleeder
P-13127	P-13127	No 64 Syr Reducer

NOTE Thro Valve Location 019 plus or minus 004 above top of lower idle hole

EQUIPMENT

P-4751 Gasket—P-7991 Collar

REPLACEMENT EQUIPMENT

PARTS AND SETTINGS EXCEPTIONS MODELS UV-1, UV-2 AND UXV-2 STANDARD CARBURETOR (Continued)

(Passenger Cars and Trucks)

CHRYSLER 1924-27 MODEL "70" (PACKAGE EQUIPMENT)

3⅛ x 4¾ 6-Cylinder

A-12292 UXV-2 Caruretor

Std. Part No.	Special Parts Used on Above Model Car	
P-6454	P-6454	18° Throttle Valve
P-5845	P-7679	Throttle Valve
P-11969	P-12677	Choke Tube Holder
P-12512	P-12512	.048 Metering Jet
P-12661	P-13000	Idle Tube
P-12698	P-12698	1" Venturi
P-12750	P-12963	No. 30-28 Main Discharge Jet
P-12768	P-12768	.031 By-Pass Jet
P-12805	P-12653	Choke Lever and Stem
P-12872	P-14452	Main Body with No. 60 H. S Bleeder
None Shown	P-12295	Bell Crank
None Shown	P-12250	Bell Crank Stud
None Shown	P-6161	Bell Crank Connecting Rod
None Shown	P-5762	Bell Crank Ball Joints
None Shown	P-6068	Bell Crank Washer
None Shown	P-3187	Bell Crank Stud Nut
None Shown	P-10456	Flange Studs
None Shown	P-13340	Fuemer Plate
None Shown	P-13171	Fuemer Plate Gasket
None Shown	P-11724	Fuemer Plate Attaching Screw
None Shown	P-12606	Fuemer Plate Attaching Lock Washer

Equipment

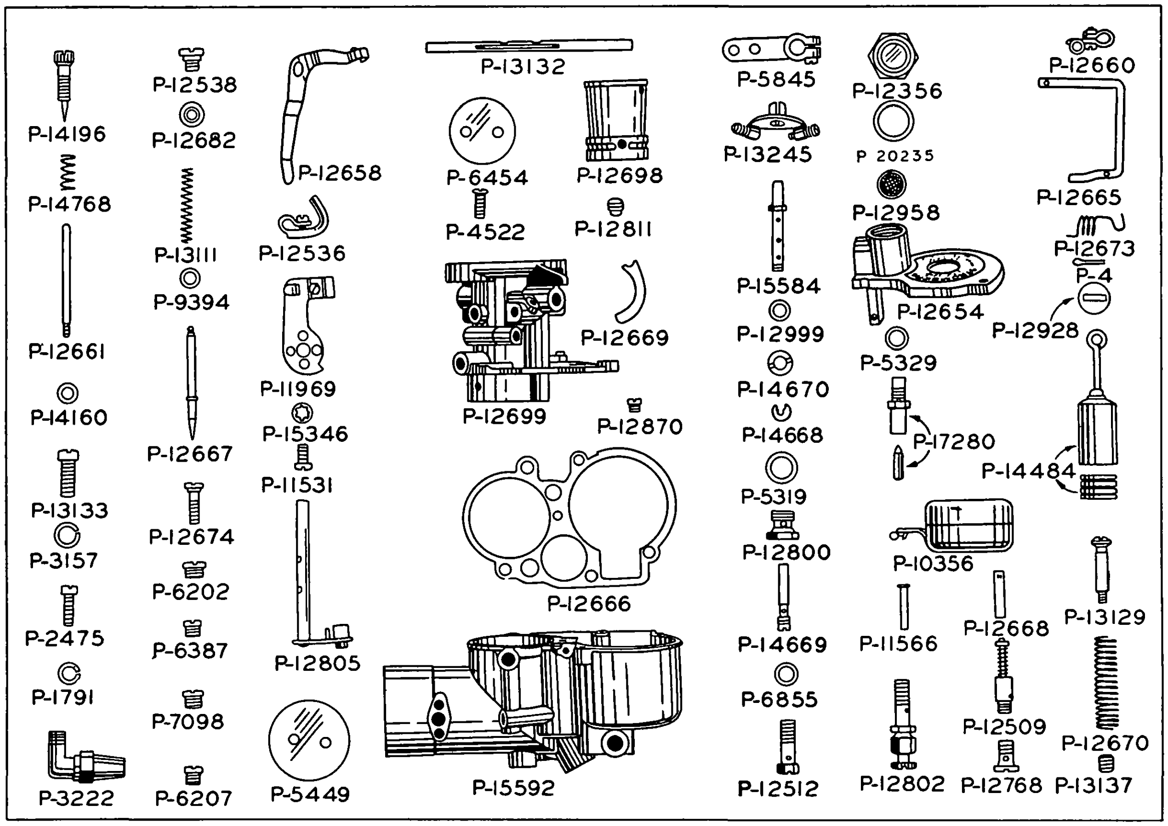
P-4752 Flange Gasket—P-5558 Flange Stud Nuts—P-10019 Throttle Rod —P-13200 Air Cleaner.

DODGE 1927 "SENIOR SIX"

3¼ x 4½ 6-Cylinder

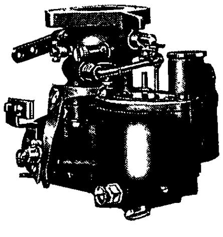
J-4110 UXV-2 Carburetor (Code No. 3-21)

Std. Part No.	Special Parts Used on Above Model Car	
P-5845	P-7246	Throttle Lever
P-11969	P-12680	Choke Tube Holder
P-12512	P-12512	.050 Metering Jet (Right Side)
P-12699	P-12699	Throttle Valve Body with No. 56-70 Idle Holes, Flange Drilled 13/32"
P-12802	P-12802	Adj. Metering Jet (Left Side)
P-12805	P-13051	Choke Lever and Stem
P-12870	P-12870	No. 60 High Speed Bleeder
P-13137	P-13313	No. 70 Syr. Reducer



UX-2 N . A-11872
1¼" CARB SAE

UX-3 N . A-11873
1½" CARB SAE



Notes and References

Parts UX 2 illustrated, corresponding UX-3 parts shown in listing below

Car models having these carburetors with parts exceptions therefor are shown on back of this page

‡Indicates Sub assembly part

PARTS LISTS STROMBERG MODELS UX-2 AND UX-3 STANDARD CARBURETORS (DIE CAST)

UX 2 Part No	UX-3 Part No	Name
P-4	P-4	Pump Lever Cotter Pin
P-1791	P-1791	Float Chamber Cover Screw L Washer
P-2475	P-2475	Float Chamber Cover Screw
P-3157	P-3157	Main Body Att Screw L washer
P-3222	P-3222	Gasoline Elbow Union
‡P-3221	‡P-3221	Union Elbow
‡P-3220	‡P-3220	Union Nut
P-3324	P-3224	Carb Attaching Cap Screw
P-4522	P-4522	Throttle Valve Screw
P-4522	P-4522	Choke Valve Screw
P-5319	P-5319	Main Discharge Jet Plug Gasket
P-5329	P-5329	Float Needle Valve Seat Gasket
P-5449	P-6050	Choke Valve
P-5845	P-5856	Throttle Lever with Screw
‡P-3199	‡P-3199	Throttle Lever Clamp Screw
P-6202	P-6202	Idle Discharge Hole Plug
P-6202	P-6202	Main Gasoline Channel Plug
P-6202	P-6202	Idle Discharge Channel Plug
P-6207	P-6207	High Speed Bleeder Channel Plug
P-6387		Economizer Channel Plug
P-6387	P-6387	Pump Channel Plug
P-6387	P-6406	Auxiliary Channel Plug
*P-6454	P-5436	Throttle Valve (VAR)
P-6855	P-6855	High Speed Needle Valve Seat Gasket
P-6855	P-6855	Metering Jet Gasket
P-6855	P-6855	By Pass Jet Gasket
P-7098	P-7098	Idle Channel Plug
P-9394	P-9394	Auxiliary Needle Valve Spring Washer
P-10356	P-10356	Float with Lever
P-11531	P-11531	Choke Tube Holder Attach Screw
P-11566	P-11566	Float Fulcrum Pin
P-11969	P-12823	Choke Tube Hldr with Screw (Comp)
‡P-11561	‡P-11561	Choke Tube Clamp
‡P-12868	‡P-12868	Choke Tube Clamp Screw
‡P-8806	‡P-8806	Choke Tube Clamp Screw Nut
P-12356	P-12356	Strainer Plug
P-12509	P-12509	Economizer Needle Valve (Comp)
‡P-10173	‡P-10173	Economizer Needle Valve Washer
‡P-8344	‡P-8344	Economizer Needle Valve Open Wshr
‡P-12507	‡P-12507	Economizer Needle Valve Spring
*P-12512	P-12512	Metering Jet (VAR)
P-12536	P-12536	Auxiliary Cam with Screw
‡P-2866	‡P-2866	Auxiliary Cam Clamp Screw
P-12538	P-12538	Aux Control Lever Fulcrum Screw
P-12654	P-12701	Float Chamber Cover
P-12658	P-12712	Auxiliary Control Lever
P-12660	P-12715	Economizer Lever with Roller
‡P-12529	‡P-12529	Economizer Lever Clamp Nut
‡P-284	‡P-284	Economizer Lever Clamp Screw
P-12661	P-12744	Idle Tube
P-12665	P-12716	Pump Lever
P-12666	P-12711	Main Body Gasket
P-12667	P-12743	Auxiliary Needle Valve
P-12668	P-12719	Economizer Push Rod
P-12669	P-12709	Gasket Support
P-12670	P-12718	Pump Piston Spring
P-12673	P-12673	Pump Lever Spring
P-12674	P-12708	Auxiliary Gasoline Nozzle
P-12682	P-12682	Auxiliary Needle Valve Lift Washer
*P-12698	P-12704	Venturi Tube (VAR)
*P-12699	P-12810	Throttle Valve Body (VAR)
‡P-9979	‡P-10351	Throttle Stem Bushing
‡P-13324	‡P 9738	Economizer Push Rod Bushing
*P-12768	P-12768	By-Pass Jet (VAR.)
P-12800	P-12800	Main Discharge Jet Plug
P-12802	P-12802	High Speed Needle Valve (Comp)
‡P-1503	‡P-1503	High Speed Needle Valve Packing
‡P-12803	‡P-12803	High Speed Needle Valve Pkg Nut
P-12805	P-13009	Choke Lever with Stem (Comp)
‡P-10981	‡P-10981	Choke Wire Clamp Screw
P 12811	P-12866	Venturi Tube Set Screw
*P-12870	P-12870	Hgih Speed Bleeder (VAR)
P-12928	P-12928	Pump Piston Link Washer
P-12958	P-12958	Strainer
P-12999	P-12999	Main Discharge Jet Gasket
P-12999	P-12999	Main Dischg Jet Nut Gasket (Lower)
P-13111	P-13110	Auxiliary Needle Valve Spring
P-13129	P-13138	Pump Piston Valve
P-13132	P-12745	Throttle Lever Stem
P-13133	P-13133	Main Body Attaching Screw
*P 13137	P-13135	Pump Valve Gas Reducer (VAR)
P-13245	P-7041	Throttle Stop with Screws
	‡P-2226	Throttle Stop Clamp Screw
‡P-2924	‡P-12375	Throttle Stop Set Screw
‡P-15301		Throttle Stop Set Screw Spring
P-14160		Idle Tube Washer
P-14196	P-14196	Idle Needle Valve
P-14484	P-14473	Pump Piston & Sleeve with Link
P-14668		Main Discharge Jet Washer
P-14669		Main Gas Channel Reducer
P-14670	P-12801	Main Discharge Jet Nut
P-14768	P-14768	Idle Needle Valve Spring
P-15346	P-15346	Ch Tube Holder Att Screw L'washer
*P-15584	P-12707	Main Discharge Jet (VAR)
P-15592	P-13013	Main Body
P-17280	P-17280	Float Needle Valve & Seat
P-20235	P-20235	Strainer Plug Gasket
	P-12006	Auxiliary Gas Channel Expan Plug
	P-6387	Auxiliary Feed Channel Plug

J-4193-G	UX 2	Complete Gasket Set—Die Cast
J 4536-G	UX 2	Complete Gasket Set—Cast Iron TV Body
J-4194 G	UX 3	Complete Gasket Set—Die Cast

*NOTE On parts marked (VAR) size must be specified when ordering

STANDARD SPECIFICATIONS

A-11872 UX-2 Carburetor

P-6454	Thro Valve (20°)
P-12661	Idle Tube No 68 Feed No 62 Top Hole
P-12698	1$\frac{1}{32}$' Venturi
P-12699	Thro Valve Body with No 56-70 Idle Holes Fl Tapped ⅜-16'
P-12768	047' By Pass Jet
P-12870	No 65 H S Bleeder
P-13137	No 68 Syr Reducer
P-15584	No 32 Main Disch Jet

A-11873 UX-3 Carburetor

P-5436	Thro Valve (20°)
P-12704	1⅛ Venturi
P-12707	A 30 B-28 Main Disch Jet
P-12744	Idle Tube, No 68 Feed No 62 Top Hole
P-12768	042' By Pass Jet
P-12810	Thro Valve Body with No 55-66 Idle Holes, Fl Tapped ⅜-16"
P-12870	No 56 H S Bleeder
P-13135	No 62 Syr Reducer

STANDARD SETTINGS FOR UX-2-3 CARBURETORS

Thro Valve Location Lower lip of Thro Valve to be flush, plus or minus 004 with top or lower idle hole

Pump Capacity {UX-2—10 to 14 CC per strokes
{UX 3—15 to 20 CC per 10 strokes

Economizer Needle To start to open when Thro Valve is cracked open with
UX-2—228 or No 1 drill
UX 3—11/32 drill

Aux Needle Valve Should start to open when choke valve is 10° to 15° from wide open position (Approx 3/32 lift)

SPECIFICATIONS OF STANDARD EQUIPPED PASSENGER CARS
PARTS AND SETTINGS EXCEPTIONS MODELS UX-2 AND UX-3 STANDARD CARBURETORS

DODGE VICTORY "6" 1928—STD "6" 1928-29 (42229)

3⅜' x 3⅞"—6 Cyl

No A-11942—UX-2 Carburetor (Code No 3 6)

Std Part No	Special Part	Used on Above Model Car
P-5845	P-7246	Throttle Lever
P-6454 -20°	P-6454	Throttle Valve—19½°
P-11969	P-12680	Choke Tube Holder
P-12512	P-12512	Metering Jet 055
P-12654	P-12981	Float Chamber Cover
P-12661	P-13078	Idle Tube 68 Feed, 60 Top Hole
P-12699	P-13178	Throttle Valve Body $\frac{15}{16}$ Venturi No 52-62 Idle Holes Fl Drilled $\frac{7}{16}$"
P-12768	P-12768	By-Pass Jet 046
P-12805	P-13051	Choke Lever with Stem
P-13132	P-12747	Throttle Lever Stem
P-13245	P 6893	Throttle Stop
P-14670	P-12801	Main Disch Jet Nut
P-15584	P-13580	Main Discharge Jet No 40
P-15592	P-12742	Main Body

DODGE SENIOR SIX 1928 29 (AB-202-819)

3⅜" x 4½"—6 Cyl

No A-11943—UX-3 Carburetor (Code No 3-9)

Std Part No	Special Part	Used on Above Model Car
P-5956	P-13425	Throttle Lever
P-12512	P-12512	Metering Jet 070
P-12701	P-12979	Float Chamber Cover
P-12707	P-13403	Main Discharge Jet A 30—B-28
P-12744	P-13717	Idle Tube 68 Feed Hole
P-12745	P-13036	Throttle Stem
P-12768	P-12768	By-Pass Jet 045'
P-12810	P-12722	Throttle Valve Body with No 54-66 Idle Holes Fl Drilled $\frac{7}{16}$', 1⅛" Venturi
P-12823	P-12854	Choke Tube Holder
P-13013	P-13423	Main Body No 56 H S Bleeder
P-13135	P-13588	Pump Reducer No 66

NOTE Pump Capacity 8 to 12 CC per 10 Strokes

MARMON "68" 1928-29 (AT-510-B)

2$\frac{13}{16}$" x 4¼"—8 Cyl

No A-11732—UX 2 Carburetor (Code No 55 2)

Std Part No	Special Part	Used on Above Model Car
P-5845	P-12841	Throttle Lever
P-6454	P-6454	Throttle Valve 19°
P-11969	P-12823	Choke Tube Holder
P-12538	P-7299	Fulcrum Screw
P-12658	P-13516	Auxiliary Control Lever
P-12699	P-12671	Thro Valve Body 1$\frac{1}{32}$ Venturi No 56-70 Idle Holes Fl Drilled 13/32"
P-12768	P-12768	By-Pass Jet 031"
P-13132	P-13519	Throttle Lever and Stem
P-13245	P-12964	Throttle Stop
P-15584	P-12663	Main Discharge Jet No 32
P-15592	P-12742	Main Body
None Shown	P-7336	Throttle Connecting Rod Nut
None Shown	P-13526	Throttle Connecting Rod
None Shown	P-10211	Air Horn Extension

NOTE Pump Capacity 12 CC per 10 Strokes

NOTE Thro Valve to be cracked open 060 to 070 when choke valve is closed

NOTE Thro Valve Location 006 to 014 above top of lower idle hole

MARMON "78" 1928-29 (N-510-A)

2$\frac{15}{16}$" x 4"—8 Cyl

No A-11632—UX 2 Carburetor (Code No 55-1)

Std Part No	Special Part	Used on Above Model Car
P-5845	P-13528	Throttle Lever
P-11969	P-12823	Choke Tube Holder
P-12538	P-7299	Fulcrum Screw
P-12658	P-13516	Auxiliary Control Lever
P-12699	P-12671	Throttle Valve Body 1$\frac{1}{32}$' Venturi No 56-68 Idle Holes Fl Drilled 13/32
P-12768	P-12768	By-Pass Jet 031
P-13132	P-12747	Throttle Lever Stem
P-15584	P-12750	Main Discharge Jet No 32
P-15592	P-12742	Main Body
None Shown	P-7336	Throttle Connecting Rod Nut
None Shown	P-13526	Throttle Connecting Rod
None Shown	P-10211	Air Horn Extension

NOTE Pump Capacity 3 to 6 CC per 10 Strokes

MARMON 1931 MODEL "70" (S-510) AND MODEL ROOSEVELT 1929

2$\frac{13}{16}$"x4¼ —8-Cylinder

A-13042 UX-2 Carburetor

Std Part No	Special Part	Used on Above Model
P-3222	P-3221	Elbow Union
P-5845	P-12841	Thro Lever Assembly on side toward
P-11969	P-12823	Tube Holder on Right Side
P-12538	P-7299	Aux Lever Fulcrum Screw
P-12658	P-13516	Aux Control Lever
P-12661	P-14045	Idle Tube with No 68 Feed Hole and No 60 Top Hole
P-12699	P-12670	Thro Valve Body with 1$\frac{1}{32}$' Venturi, 56-70 Idle Holes Fl 13/32' Drill
P-12768	P-12768	031 By Pass Jet
P-13132	P-13519	Thro Lever and Stem
P-13137	P-13313	No 70 Pump Gas Reducer
P-13245	P-16467	Throttle Stop
P-14196	P-12542	Idle Needle Valve
P-14670	P-12801	Main Disch Jet Nut
P-14768	P-12530	Idle Needle Valve Spring
P-15584	P-12663	No 32 Main Discharge Jet
P-15592	P-12742	Main Body with No 54 H S Bleeder
None Shown	P-14160	Idle Tube Cork Washer
None Shown	P-13520	Throttle Connecting Rod
None Shown	P-7336	Adjusting Nut
None Shown	P-10211	Air Horn Extension

NOTE Pump Capacity 12 CC per 10 Strokes

NOTE Thro Valve to be cracked open 046 to 055 when Choke Valve is closed

PEERLESS "81" 1928-29 (20218)

3⅜" x 4⅝"—6 Cyl

No. A-11882—UX-2 Carb

Std Part No	Special Part	Used on Above Model Car
P-3222	P-8425	Union
P-5845	P-13381	Throttle Lever with Screw
P-6454 -20°	P-6454	Throttle Valve—19°
P-12661	P-13078	Idle Tube 68 Feed, 60 Top Hole
P-12699	P-12671	Throttle Valve Body—1$\frac{1}{16}$ Venturi No 54 68 Idle Holes Fl Tap ⅜-16'
P-12768	P-12768	By-Pass Jet 040
P-12805	P-13385	Air Horn Lever with Stem
P-13137	P-13135	Pump Reducer No 62
P-15584	P-13500	Main Discharge Jet No 40
P-15592	P-13002	Main Body
None Shown	P-11961	Air Horn Lever Stop
None Shown	P-13383	Throttle Lever with Screw

NOTE Pump Capacity 14 to 17 CC with Adj H S Needle open 3 turns

NOTE Throttle Valve Location 018 plus or minus 004 above top of lower idle hole

PEERLESS '61" 1929 (21574)

3⅜" x 4'—6 Cyl

No A-12762—UX-2 Carb

Std Part No	Special Part	Used on Above Model Car
P-5845	P-11954	Throttle Lever
P-6454 -20°	P 6454	Throttle Valve—18½°
P-12654	P-12981	Float Chamber Cover
P-12699	P-12671	Throttle Valve Body—31/32 Venturi No 55-70 Idle Holes Fl Tap ⅜-16"
P-12768	P-12768	By-Pass Jet 031"
P-12805	P-13843	Air Horn Lever with Stem
P-13132	P-12747	Throttle Stem
P-15584	P-12750	Main Discharge Jet No 32
P-15592	P-12672	Main Body
None Shown	P-13364	Air Horn Lever Stop

NOTE Thro Valve Location 019 plus or minus 004 above top of lower idle hole

PARTS AND SETTINGS EXCEPTIONS MODELS UX-2 AND UX-3 STANDARD CARBURETORS (Continued)

(Passenger Cars)

PEERLESS "91" 1928 (18777)

3½" x 5"—6 Cyl

No A-11883—UX-3 Carburetor (Code No 58-1)

Std Part No	Special Part	Used on Above Model Car
P-5436	P-5436	Throttle Valve 19½°
P-5856	P-11832	Throttle Lever
P-12701	P-12979	Float Chamber Cover
P-12707	P-13020	Main Discharge Jet No 28
P-12719	P-13855	Economizer Push Rod
P-12745	P-13036	Throttle Lever Stem
P-12768	P-12768	By-Pass Jet 028
P-12810	P-12722	Throttle Valve Body with No 50-64 Idle Holes, Fl Tapped ⅜-16′
P-13009	P-13015	Choke Lever and Stem
P-13013	P-13023	Main Body
P-13135	P-13967	Pump Reducer No 55
None Shown	P-11961	Choke Lever Stop
None Shown	P-13017	Throttle Lever

NOTE Thro Valve Location 004 plus 006 minus 002 above top of lower idle hole

NOTE Economizer Setting 5/16" Drill

NOTE Pump Capacity 20 CC per 10 Strokes

STUDEBAKER COMMANDER—6 "GJ" 1929 (C-165525)

3⅜" x 4⅞ —6 Cyl

No A-12782—UX-2 Carb (Cast Iron Throttle Valve Body)

Std Part No	Special Part	Used on Above Model Car
P-5449	P-13778	Air Horn Valve with Spring (Upper)
	P-13895	Air Horn Valve (Lower)
P-5845	P-7246	Throttle Lever
P-11969	P-14275	Choke Tube Holder
P-12512	P-12512	Metering Jet 065′
P-12538	P-14645	Auxiliary Lever Fulcrum Screw
P-12673	P-12543	Pump Lever Spring
P-12698	P-14420	Venturi Tube 1 1/16"
P-12699	P-14441	Throttle Valve Body with No 55-64 Idle Holes Flange Drilled 13/32
P-12768	P-12768	By-Pass Jet 036
P-12805	P-14066	Air Horn Lever with Stem
P-12958	P-13438	Strainer
P-15584	P-14671	Main Discharge Jet No 32
P-15592	P-14692	Main Body
P-17280	P-18832	Float Needle & Seat
None Shown	P-11250	Pump Lever Washer
None Shown	P-11572	Strainer Stud Gasket
None Shown	P-13432	Strainer Body
None Shown	P-13434	Strainer Stud
None Shown	P-13435	Strainer Body Gasket
None Shown	P-15362	Float Lever Support Rivets
None Shown	P-13583	Float Lever Support

NOTE Throttle Valve Location flush plus 008, minus 000

STUDEBAKER "COM 6" MODEL "G J" 1929 (C-165525)

3⅜"x4⅝′ —6-Cylinder

A-12782 UX-2 Carburetor (Die Cast Thro Valve Body)

Std Part No	Special Parts	Used on Above Model Car
P-5449	P-13778	Choke Valve with Spring (Upper)
	P-13895	Choke Valve (Lower)
P-5845	P-7246	Throttle Lever
P-11969	P-12604	Choke Tube Holder
P-12512	P-12512	065 Main Metering Jet
P-12699	P-12671	Thro Valve Body 1 1/16 Venturi Idle Holes 55-64 Flange Drilled 13/32′
P-12768	P-12768	036 By-Pass Jet
P-12805	P-14066	Choke Lever and Stem
P-13132	P-12747	Thro Lever Stems
	P-13778	Choke Valve (Upper)
P-13245	P-6893	Throttle Stop
P-14196	P-12542	Idle Needle Valve
P-14669	P-14595	Reducer (Main Gas Chan)
P-14670	P-14596	Main Disch Jet Nut
P-14768	P-12530	Idle Needle Spring
P-15592	P-13862	Main Body No 58 H S Bleeder
P-15584	P-13846	No 32 Main Disch Jet

STUDEBAKER COMMANDER "8" 1928-29-30 (C167232)

3 1/16 x 4¼"—8 Cyl

No A-12792 UX 2 Carburetor (Cast Iron T V Body) (Code No 6-18)

Std Part No	Special Part	Used on Above Model Car
P-3157	P-1791	Main Body Attach Screw Lkwshr
P-5449	P-13895	Air Horn Valve (Lower)
	P-13778	Air Horn Valve with Spring
P-5845	P-7246	Throttle Lever
P-6454 20°	P-6454	Throttle Valve—19°
P-11969	P-14265	Choke Tube Holder
P-12538	P-14645	Auxiliary Lever Fulcrum Screw
P-12673	P-12543	Pump Lever Spring
P-12698	P-14420	Venturi Tube 1-3/32"
P-12699	P-14441	Throttle Valve Body No 55-66 Idle Idle Holes Flange Drilled 13/32
P-12768	P-12768	By-Pass Jet 034
P-12805	P-13303	Choke Lever with Stem
P-12958	P-13438	Strainer
P-13132	P-12747	Throttle Lever Stem
P-13137	P-13242	Pump Reducer No 60
P-15584	P-14671	Main Discharge Jet No 30
P-15592	P-14702	Main Body
P-17280	P-18832	Needle and Seat
None Shown	P-14374	Float Chamber Plug
None Shown	P-11250	Pump Lever Washer
None Shown	P-13583	Float Lever Support
None Shown	P-15362	Float Lever Support Rivets
None Shown	P-13432	Strainer Body
None Shown	P-13434	Strainer Body Stud
None Shown	P-13435	Strainer Body Gasket
None Shown	P-11572	Strainer Body Stud Gasket

NOTE Pump Capacity 9 to 13 CC per 10 strokes

NOTE Throttle Valve Location 015 plus or minus 004 above top of lower idle hole

STUDEBAKER "COM 8" 1928-30 (167232)

3"x4¼′ —8-Cylinder

A-12792 UX 2 Carburetor (Die Cast T V Body (Code No 6-18)

Std Part No	Special Parts	Used on Above Model Car
P-5845	P-7246	Thro Lever
P-6454	P-6454	(19°) Thro Valve
P-6454	P-13895	Choke Valve (lower)
	P-13778	Choke Valve (upper)
P-11969	P-12680	Choke Tube Holder
P-13132	P-12747	Thro Lever Stem
P-12512	P-12512	064 Main Metering Jet
P-12699	P-12671	Thro Valve Body with 1 3/32" Venturi, No 55-66 Idle Holes Flange Drilled 13/32′
P-12654	P-12981	Float Chamber Cover
P-12768	P-12768	034 By-Pass Jet
P-12805	P-13303	Choke Lever and Stem
P-14669	P-14569	Reducer Main Gas Channel
P-14670	P-14596	Main Disch Jet Nut
P-15584	P-13846	No 30 Main Disch Jet
P-15592	P 13852	Main Body No 65 H S Bleeder

NOTE Lower lip of Thro Valve to 015 plus or minus 004 above top of lower idle hole

STUDEBAKER DICTATOR—6 "GL" 1929 (168002)

3⅛" x 4⅜ —6 Cyl

No A-13282—UX-2 Carb with Cast Iron Throttle Valve Body.

Std Part No	Special Part	Used on Above Model Car
P-5449	P-13778	Air Horn Valve with Spring (Upper)
	P-13895	Air Horn Valve (Lower)
P-5845	P-14267	Throttle Lever
P-6454 -20°	P-6454	Throttle Valve 19½°
P-11969	P-14275	Choke Tube Holder
P-12512	P-12512	Metering Jet 063
P-12538	P-14645	Auxiliary Lever Fulcrum Screw
P-12673	P-12543	Pump Lever Spring
P-12698	P-14420	Venturi Tube 1-1/32
P-12699	P-14441	Throttle Valve Body with No 55-66 Idle Holes Flange Drilled 13/32′
P-12768	P-12768	By-Pass Jet 038
P-12805	P-14066	Choke Lever with Stem
P-12958	P-13438	Strainer
P-13132	P-14268	Throttle Lever Stem
P-13133	P-6249	Main Body Attaching Screw
P-13137	P-13134	Pump Reducer No 58
P-15584	P-14681	Main Discharge Jet No 32
P-15592	P-14692	Main Body with No 60 H S Bleeder
None Shown	P-11250	Pump Lever Washer
None Shown	P-11572	Strainer Stud Gasket
None Shown	P-13432	Strainer Body
None Shown	P-13434	Strainer Stud
None Shown	P-13435	Strainer Body Gasket
None Shown	P-13583	Float Lever Support
None Shown	P-15362	Float Lever Support Rivet

NOTE Throttle Valve Location 006 plus or minus 004 above top of lower idle hole

STUDEBAKER "DICT 6" MODEL "G L" 1929 (C-168002)

3⅜ x4⅛ —6-Cylinder

A-13282 UX-2 Carburetor (Die Cast Thro Valve Body)

Std Part No	Special Parts	Used on Above Model Car
P-5449	P-13778	Choke Valve (Upper)
	P-13895	Choke Valve (Lower)
P-5845	P-14267	Throttle Lever
P 6454	P-6454	(19°) Throttle Valve
P-11969	P-14275	Choke Tube Holder
P-12512	P-12512	063 Main Metering Jet
P-12699	P-12671	Throttle Valve Body 1 1/32 Venturi No 55-66 Idle Holes Fl Drilled 13/32′
P-12768	P-12768	038 By-Pass Jet
P-12805	P-14066	Choke Lever and Stem
P-13132	P-14268	Throttle Lever Stem
P-14669	P-14595	Reducer Main Gas Chan
P-14670	P-14596	Main Discharge Jet Nut
P 15584	P-14273	No 32 Main Discharge Jet
P-15592	P-13862	Main Body, No 60 H S Bleeder

NOTE Throttle Valve Location 006 plus or minus 004 above top of lower idle hole

PARTS AND SETTINGS EXCEPTIONS MODELS UX-2-3 STANDARD CARBURETORS (Continued)

(Passenger Cars)

STUDEBAKER "COMMANDER 6" 1928-29 (150945)

3⅞″ x 5″—6 Cyl

No A-11403—UX-3 Carburetor (Code No 6-11)

Std Part No	Special Part	Used on Above Model Car
P-5856	P-7887	Throttle Lever
P-12512	P-12512	Metering Jet 070′
P-12707	P-12707	Main Discharge Jet A-30—B-28
P-12768	P-12768	By-Pass Jet 058″
P-12810	P-12722	Throttle Valve Body with No 56-66 Idle Holes, Flange Drilled 13/32′
P-12823	P-12837	Choke Tube Holder
P-13009	P-12827	Choke Lever and Stem
P-13013	P-12723	Main Body
P-13138	P-12710	Pump Piston Valve
P-14196	P-12542	Idle Needle Valve

STUDEBAKER "GK" 1929 (136381)

3⅜′ x 4⅞ —6 Cyl

No A-13062—UX-2 Carb

Std. Part No	Special Part	Used on Above Model Car
P-5449	P-13778	Air Horn Valve with Spring (Upper)
	P-13895	Air Horn Valve (Lower)
P-5845	P-6120	Throttle Lever
P-11969	P-14275	Choke Tube Holder
P-12512	P-12512	Metering Jet 065′
P-12699	P-12671	Throttle Valve Body 1 1/16″ Venturi No 55-64 Idle Holes, Fl Drilled 13/32″
P-12768	P-12768	By-Pass Jet 036″
P-12805	P-12875	Choke Lever with Stem
P-13132	P-12869	Throttle Stem
P-15584	P-14671	Main Discharge Jet No 32
P-15592	P-14692	Main Body
None Shown	P-12857	Throttle Lever

NOTE Thro Valve Location Flush plus 008, minus 000

STUDEBAKER "DICTATOR 6" 1928 (128016)

3⅜″ x 4½″—6 Cyl.

No A-11402 UX-2 Carburetor (Code No. 6-26)

Std Part No	Special Part	Used on Above Model Car
P-5845	P-12857	Throttle Lever
P-5845	P-6120	Throttle Lever
P-6454 -20°	P-6454	Throttle Valve 18½°
P-11969	P-12604	Choke Tube Holder
P-12512	P-12512	Metering Jet 064
P-12699	P-12671	Throttle Valve Body 1 1/32″ Venturi No 53-64 Idle Holes, Fl Drilled 13/32″
P-12768	P-12768	By-Pass Jet 036′
P-12805	P-12875	Air Horn Lever with Stem
P-13132	P-12869	Throttle Lever Stem
P-15592	P-13002	Main Body

NOTE Throttle Valve Location, 014 to 022 above top of lower idle hole

STUDEBAKER DICTATOR—6 "GN" 1929 (C136657)

3⅜″ x 4⅛ —6 Cyl.

No A-13552—UX-2 Carburetor (Code No 6-22)

Std Part No	Special Part	Used on Above Model Car
P-5845	P-6120	Throttle Lever
P-6202	P-14595	Main Gas Channel Plug
P-6454	P-6454	Throttle Valve 18½°
P-11969	P-14275	Choke Tube Holder
P-12512	P-12512	Metering Jet 063″
P-12699	P-12671	Throttle Valve Body with 1 1/32″ Venturi, No 55-66 Idle Holes, Flange Drilled 13/32″
P-12768	P-12768	By-Pass Jet 038″
P-12800	P-14591	Main Discharge Jet Plug
P-13132	P-12869	Throttle Lever Stem
P-13137	P-13136	Pump Reducer No 65
P-15584	P-14273	Main Discharge Jet No 32
P-15592	P-13862	Main Body with No 60 High Speed Bleeder
None Shown	P-12857	Throttle Lever

NOTE Throttle Valve Location, 014 to 022 above top of lower idle hole

PARTS AND SETTINGS EXCEPTIONS MODELS UX-2-3 STANDARD CARBURETORS

(Trucks)

INDIANA 1929-'30 MODEL "300 C" (55936)

3⅜″x4⅝″ 6 Cyl

A-13722 UX-2 Carburetor

Std Part No	Special Part	Used on Above Model Truck
P-5845	P-13017	Thro Lever with Screw
P-6454	P-6454	18½° Thro Valve
P-12512	P-12512	055′ Meter Jet
P-12661	P-13078	Idle Tube, 68 Feed, 60 Top Hole
P-12699 P-12698	P-12671	Thro Valve Body with 1 1/32″ Venturi No 54-68 Idle Holes, Fl Tapped ⅜-16
P-12768	P-12768	040″ By Pass Jet
P-12870	P-12870	No 56 H S Bleeder
P-13132	P-12869	Thro Stem
P-13137	P-13135	No 62 Syr Reducer
P-15584	P-13500	No 40 M D Jet
None Shown	P-14714	Thro Lever with Screw
None Shown	P-6884	Air Horn Extension

NOTE Throttle Valve Location, 015 to 020 above top of lower idle hole

NOTE Pump Capacity, 14 to 17 CC per 10 strokes

REPLACEMENT EQUIPMENTS

PARTS AND SETTINGS EXCEPTIONS MODELS UX-2 AND UX-3 STANDARD CARBURETORS

(Passeng r Cars and Trucks)

GRAHAM PAIGE 1929 MODEL "6-12" PKG. EQUIPT.

3"x4½" 6 Cyl.

A-12882 UX-2 Carburetor (Code No. 9-8)

Std Part No	Special Parts	Used on Above Model Car
P-5845	P-7540	Thro Lever and Screw
P-12512	P-12512	038' Meter. Jet
P-12698	P-12698	29/32' Venturi
P-12699	P-12699	Thro Valve Body with No 55-64 Idle Idle Holes, Flange Drilled 13/32"
P-12768	P-12768	035" By Pass Jet
P-13132	P-14492	Thro Lever Stem
None Shown	P-5956	Loose Thro Lever
None Shown	P-5837	Loose Lever Stop

EQUIPMENT

P-4 Cotter Pin—P-3324 Cap Screws—J-3920-F Manifold Fittings—P-4752 Gaskets—P-6385 Studs—P-7428 Nuts—P-8716 Thro Rod 5¼' Long—P-8737 Ball Joints—P-14387 Thro Rod

GRAHAM TRUCK 1928-'29

MODELS "OE, GE, TE, RE, JE, YE, AND GB"

3⅜"x4½" 6 Cyl.

J-4058 UX-2 Carburetor and Equipment (Code No 9-16)

Std Part No	Special Parts	Used on Above Model Car
P-5845	P-7246	Thro Lever and Screw
P-11969	P-12680	Tube Holder
P-12512	P-12512	070' Meter Jet
P-12654	P-12981	Float Chamber Cover
P-12698	P-12698	1⅛' Venturi
P-12699	P-12699	Thro Valve Body with No 54-66 Idle Holes, Flange Drilled 11/32'
P-12768	P-12768	045" By Pass Jet
P-12805	P-13303	Air Horn Lever and Stem
P-12870	P-12870	No 56 H S Bleeder
P-13137	P-13137	No 66 Syr Reducer
P-15584	P-15584	A-30, B-28 Main Jet

NOTE Economizer Setting 11/32' Drill

NOTE Pump Capacity 8 to 12 CC per 10 strokes

EQUIPMENT

P-4752 Gasket

GRAHAM DODGE TRUCK 1928-'29

MODELS "BE, DE, IE, LE, ME, AND SE"

3⅜"x3⅞" 6 Cyl.

J-4055 UX-2 Carburetor and Equipment (Code No 3-17)

Std Part No	Special Parts	Used on Above Model Car
P-3222	P-3278	Union
P-5845	P-8217	Blank Thro Lever (Drill 7/32' on 1 3/16" Centers)
P-11969	P-12680	Tube Holder
P-12512	P-12512	056 Meter Jet
P 12654	P-12981	Float Chamber Cover
P-12661	P-13078	Idle Tube, 68 Feed, 60 Top Hole
P-12698	P-12698	13/16' Venturi
P-12699	P-12699	Thro Valve Body with No 52-62 Idle Holes, Flange Drilled 11/32'
P-12768	P-12768	027' By Pass Jet
P-12805	P-13303	Air Horn Lever and Stem
P-12870	P-12870	No 58 H S Bleeder

EQUIPMENT

P-4752 Gasket

GRAHAM PAIGE 1928 "619 AND 629"

3½ x5" 6 Cyl

J-3974 UX-3 Carburetor and Equipment (Code No 9-17)

Std Part No	Special Parts	Used on Above Model Car
P-3222	P-3221	Union Elbow
P-5856	P-7198	Thro Lever
P-12512	P-12512	063" Meter Jet
P-12701	P-12979	Fl Chamber Cover
P-12745	P-13036	Thro Stem
P-12768	P-12768	040 By Pass Jet
P-12810	P-12810	Thro Valve Body with No 54-60 Idle Holes Flange Drilled 13/32'
P-12823	P-12837	Tube Holder
P-13009	P-12827	Air Horn Lever and Stem
P-13013	P-13013	Main Body with Bell Crank Boss Tapped ⅜'-24
P-13135	P-13128	No 57 Syr Reducer
None Shown	P-9818	Bell Crank Stud
None Shown	J-3974	Manifold Fitting
None Shown	P-4753	Gasket
None Shown	P-12818	Bell Crank (Drill Short Arm 13/64')
None Shown	J-3885	Bell Crank Assembly

NOTE Throttle Valve Location 004 plus 006 minus 002 above top of lower idle hole

EQUIPMENT

P-4754 Gasket—P-4 Cotter Pins

GRAHAM TRUCK 1928

3⅜"x4½" 6 Cyl.

J-3993 UX-3 Carburetor and Equipment (Code No. 9-19)

Std Part No	Special Parts	Used on Above Model Car
P-3222	P-3221	Union Elbow
P-5856	P-13425	Thro Lever
P-12512	P-12512	063' Meter Jet
P-12701	P-12979	Float Chamber Cover
P-12707	P-13403	A-30, B-28 Main Disch Jet
P-12744	P-13717	Idle Tube
P-12768	P-12768	033" By Pass Jet
P-12810	P-12810	Thro Valve Body with No 54-66 Idle Holes Flange Drilled 7/16' .
P-12870	P-12870	No 60 H S Bleeder

EQUIPMENT

P-4753 Gasket

GRAHAM PAIGE 1928-'29 "6-21"

3½"x5" 6 Cyl

J-4070 UX-3 Carburetor and Equipment

Std Part No	Special Parts	Used on Above Model Car
P-3222	P-3221	Elbow Union
P-5856	P-7198	Thro Lever
P-12512	P-12512	063' Meter Jet
P-12701	P-12979	Float Chamber Cover
P-12745	P-13036	Thro Lever Stem
P-12768	P-12768	040' By Pass Jet
P-12810	P-12810	Thro Valve Body with No 54-60 Idle Holes Flange Drilled 13/32"
P-12823	P-12837	Tube Holder
P-13009	P-12827	Air Horn Lever and Stem
P-13013	P-13013	Main Body with Bell Crank Boss Tapped ⅜"-24
P-13135	P-13128	No 57 Syr Reducer
None Shown	J-4070	Bell Crank Assembly
None Shown	P-9818	Hex Hd Stud
None Shown	J-3974	Manifold Fittings
None Shown	P-4753	Gasket

NOTE Pump Capacity 18 to 22 CC per 10 strokes

NOTE Throttle Valve Location, 004 plus 006 minus 002 above top of lower idle hole

EQUIPMENT

P-4 Cotter Pin—P 4754 Gasket

PACKARD 1928 "526-533"

3½"x5" 6 Cyl

J-3962 A UX-3 Carburetor and Equipment (Code No 10-20)

Std Part No	Special Parts	Used on Above Model Car
P-5436	P-10753	Thro Valve with No 45 Holes
P-7041	P-7175	Thro Stop
P-12704	P-12704	1 1/16' Venturi
P-12745	P-15534	Thro Stem
P-12810	P-12810	Thro Valve Body with No 52-66 Idle Holes Flange Tapped ⅜-16"
P-13009	P-15608	Air Horn Stem
	P-9361	Air Horn Lever
	P-9940	Air Horn Lever Stop

EQUIPMENT

J 3962-F Manifold Fittings—P-4753 Gaskets—P-15208 Thro Rod—P-12225 Headless Set Screw—P-10001 Thro Lever—P-14737 Studs—P-7428 Nuts—P-10019 Rod—P-8737 Ball Joint—P-2290 Nuts

PACKARD 1929 "626-633"

3 3/16" x 5" 8 Cyl

J-4101 UX-3 Carburetor and Equipment (Code No 10-14)

Std Part No	Special Parts	Used on Above Model Car
P-3222	P-5026	Elbow Union
P-7041	P-7175	Thro Stop
P-12701	P-19810	Float Chamber Cover
P-12704	P-12704	1 3/16 Venturi
P-12745	P-15534	Thro Stem
P-12768	P-12768	047" By Pass Jet
P-12810	P-12810	Thro Valve Body with No 54-66 Idle Holes Flange Drilled 13/32"
P-13009	P-13480	Air Horn Lever Stem
	P-9940	Air Horn Lever Stop
	P-9361	Air Horn Lever
P-13135	P-13134	No 58 Syr Reducer

EQUIPMENT

P-4091-F Manifold Fitting—P-4753 Gaskets—P-14737 Studs—P-7428 Nuts—P-15208 Thro Rod—P-12225 Set Screw—P-10001 Thro Lever—P-8737 Ball Joint—P-2290 Nut—P-15595 Gas Line—P-3219 Union—P-10019 Rod

REPLACEMENT EQUIPMENTS
PARTS AND SETTINGS EXCEPTIONS MODELS UX-2 AND UX-3 STANDARD CARBURETORS (Continued)
(Passenger Cars and Trucks)

PACKARD 1930 "733" AND "726"
3 3/16"x5" 8 Cyl.

J-4091 UX-3 Carburetor and Equipment (Code No 10-12)

Std Part No	Special Part	Used on Above Model Car
P-3222	P-5026	Union Elbow
P-7041	P-7175	Thro Stop
P-12512	P-12512	045 Meter Jet
P-12701	P-19810	Float Chamber Cover
P-12704	P-12704	1 3/16" Venturi
P-12745	P-15534	Thro Stem
P-12768	P-12768	047" By Pass Jet
P-12810	P-12810	Thro Valve Body with No 54-66 Idle Holes Flange Drilled 13/32'
P-13009	P-15608 P-9940 P-9361	Air Horn Lever Stem Air Horn Lever Stop Air Horn Lever
P-13135	P-13134	No 58 Syr Reducer

EQUIPMENT

J-4091-F Manifold Fittings—P-15208 Thro Rod—P-12225 Set Screw—P-14737 Studs—P-7428 Nuts—P-10001 Thro Rod

PACKARD 1931 "826" "833"
3 1/16"x5" 8 Cyl.

J-4178 UX-3 Carburetor and Equipment

Std Part No	Special Part	Used on Above Model Car
P-7041	P-7175	Thro Stop
P-12512	P-12512	048" Meter Jet
P-12701	P-12979	Float Chamber Cover
P-12745	P-15534	Thro Stem
P-12768	P-12768	040' By Pass Jet
P-12810	P-12810	Thro Valve Body with No 55-63 Idle Holes Flange Drilled 13/32'
P-13009	P-15608 P-9361 P-9940	Air Horn Stem Air Horn Lever Air Horn Lever Stop
None Shown	P-17188	Thro Rod Adapter
None Shown	P-12225	Set Screw

EQUIPMENT

J-4091-F Fittings—P 4753 Gaskets—P-14737 Studs—P-7428 Nuts

PACKARD 1926 MODEL "326"
3½"x5'—6 Cylinder

J 4573 UX 2 Carburetor (Code No 10-22)

Std Part No	Special Parts	Used on Above Model Car
P-3222	P 4557	Elbow Union
P-5845	P-7679	Throttle Lever
P-11969	P-21097	Choke Lever Stop
P-12698	P-12698	1 1/16 Venturi
P-12768	P-12768	036 By Pass Jet
P-12802	P-12512	060 Metering Jet
P-12805	P 9342 P-12678	Choke Lever Choke Stem
P-12870	P-12870	No 60 H S Bleeder

Equipment

J-3779-F Fitting—P-12243 Throttle Lever—P-8954 Gas Line Extension—P-12237 Union Nut—P-12240 Choke Rod—P-12241 Throttle Rod

PAIGE "675" 1927 AND EARLY 1928
3⅜" x 5" 6 Cyl

J-3928 UX-3 Carburetor and Equipment

Std Part No	Special Part	Used on Above Model Car
P-3222	P-3221	Union Elbow
P-5856	P-11938	Thro Lever and Screw
P-7041	P-7175	Thro Stop
P-12512	P-12512	065' Meter Jet
P-12768	P-12768	028' By Pass Jet
P-12707	P-13020	No 28 M D Jet
P-12810	P-12810	Thro Valve Body with No 50-64 Idle Holes Flange Drilled 13/32'
P-12870	P-12870	No 60 H S Bleeder

NOTE Throttle Valve Location 004 plus 006 minus 002 above top of lower idle hole

EQUIPMENT

J-2921-F Manifold Fitting—P-4753 Gaskets—P-6385 Studs—P-7428 Nuts—P-7160 Control

REO "FLYING CLOUD" 1928-'29
3⅜" x 5" 6 Cyl

J-3999 UX-3 Carburetor and Equipment

Std Part No	Special Part	Used on Above Model Car
P-3222	P-8514	Union Elbow
P-5856	J-3858	Bell Crank Assem
P-12512	P-12512	069' Meter Jet
P-12701	P-12979	Float Cham Cover
P-12704	P-12704	1¼ Venturi
P-12707	P-13403	No 28 Main Disc Jet
P-12768	P-12768	052' By Pass Jet
P-12810	P-12810	Thro Valve Body with No 52-62 Idle Holes Flange Drilled 13/32'
P-12870	P-12870	No 70 H S Bleeder
P-13013	P-13023	Main Body

EQUIPMENT

P-6385 Stud Bolts—P-7428 Nuts—P-8496 Cotter Pin—P-12405 Air Cleaner—P-12407 Flex Tubing—P-4753 Gasket

REO "MASTER" AND "CLOUD" 1929
3⅜" x 5" 6 Cyl

J-4022 UX-3 Carburetor and Equipment

Std Part No	Special Part	Used on Above Model Car
P-3222	P-3278	Union
P-5856	J-4022	Bell Crank Assembly
P-12512	P-12512	070 Meter Jet
P-12701	P-12979	Float Cham Cover
P-12704	P-12704	1 3/16" Venturi
P-12707	P-19837	No 28 Main Disc Jet
P-12768	P-12768	043 By Pass Jet
P-12810	P-12810	Thro Valve Body with No 52-64 Idle Holes, Flange Tapped ⅜-16"
P-12870	P-12870	No 60 H S Bleeder
P-13135	P-13465	No 64 Syr Reducer

EQUIPMENT

P-4753 Gasket

STUDEBAKER "BIG 6", "EW" AND "COMMANDER"
1925-'26-'27-'28

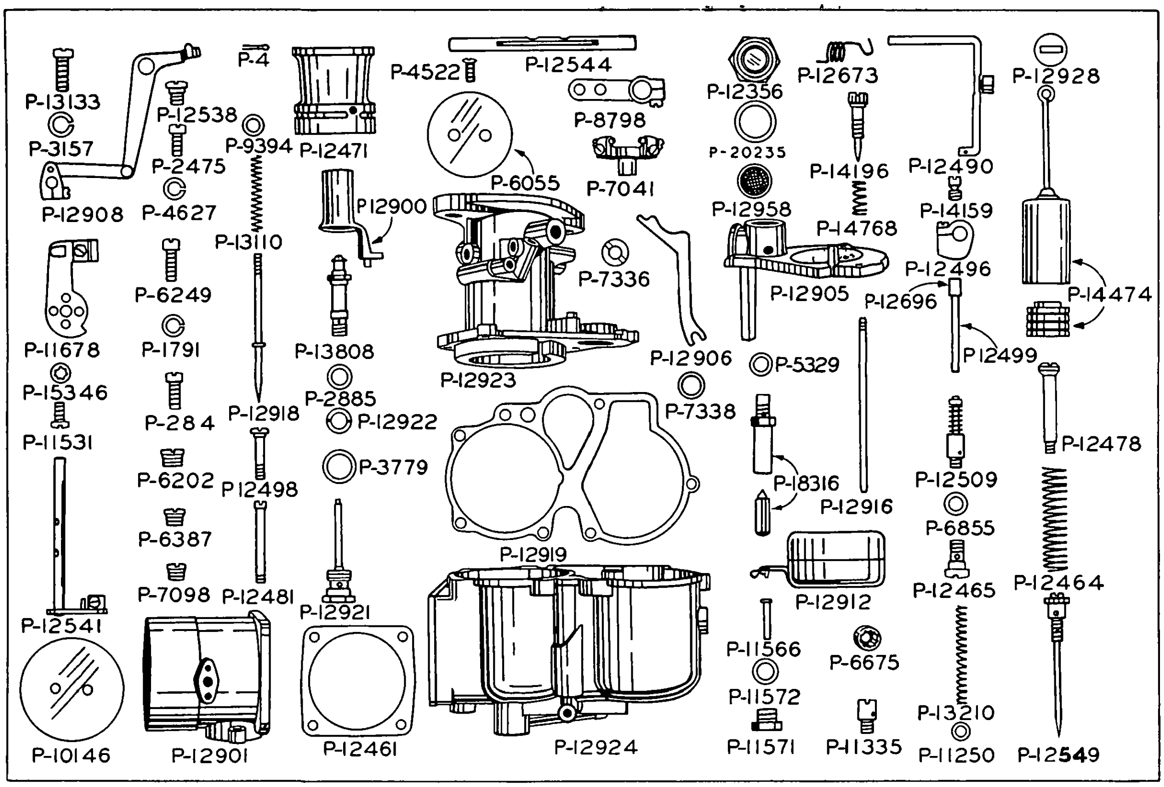
3⅞' x 5" 6 Cyl

J-3930 UX-3 Carburetor and Equipment (Code No 6-27)

Std Part No	Special Part	Used on Above Model Car
P-5856	P-7887	Thro Lever and Screw
P-12512	P-12512	065 Meter Jet
P-12704	P-12704	1 5/32 Venturi
P-12707	P-13403	A-30, B-28 Main Disc Jet
P-12823	P-12837	Tube Holder
P-12870	P-12870	No 60 H S Bleeder
P-13009	P-12827	Air Horn Lever and Stem
P-12810	P-12810	Throttle Valve Body, 56-66 Idle Holes, Flange Drilled 11/32
None Shown	P-12767	Thro Lever and Screw

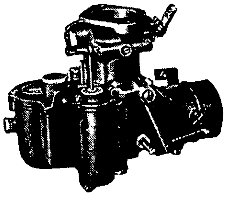
EQUIPMENT

P-4753 Gasket—P-13316 Thro Rod (Foot)—P-13315 Thro Rod (Hand)—P 2934 Cap Screws—P 7428 Hex Nuts—P-5364 Lock Washers—P-10311 Ball Joints—P-8514 Union Elbow—P-3221 Union Nipple



UX-4 N . A-11564
1¾" CARB SAE

U-4 N . A-13774
(Obsolete)
1¾" CARB SAE



Notes and References:

Parts UX-4 illustrated, corresponding U-4 parts shown in listing below

Car models having these carburetors with parts exceptions therefor are shown on back of this page

†These parts not illustrated

‡Indicates Sub-assembly part

PARTS LISTS STROMBERG MODELS UX-4 AND U-4 STANDARD CARBURETORS

UX 4 Part No	U-4 Part No	Name
P-4	P-4	Auxiliary Needle Valve Cotter Pin
P-4	P-4	Pump Lever Cotter Pin
P-284	P-284	Small Venturi Attaching Screw
P-1791	P-1791	Float Chamber Cover Sc L Washer
P-1791	P-6668	Air Horn Attaching Lock Washer
P-2475	P 2475	Air Horn Attaching Screw
P-2885	P-2885	Main Discharge Jet Gasket
P-3157	P-3157	Main Body Attach Screw L Wash
P-3222	P-3222	Gasoline Elbow Union
‡P-3221	‡P-3221	Union Elbow
‡P-3220	‡P-3220	Union Nut
P-3779	P-3779	Pump Discharge Nozzle Gasket
P-4522	P-4836	Choke Valve Screw
P-4522	P-4522	Throttle Valve Screw
P-4627	P-4627	Small Venturi Attach Sc L Wash
P-5329	P-5329	Float Needle Valve Seat Gasket
*P-6055	P-14812	Throttle Valve (VAR)
P-6202	P-6202	High Speed Needle Channel Plug
P-6202	P-12780	Idle Discharge Hole Plug
P-6202	P-6202	Main Gasoline Channel Plug
P-6249	P-6249	Float Chamber Cover Screw
P-6387	P-6387	Auxiliary Channel Plug
P-6387	P-6387	Pump Channel Plug
P-6387	P-6387	Idle Channel Plug
P-6675	P-6675	High Speed Needle Valve Adj
P-6855	P-6855	By Pass Jet Gasket
P-7041	P-12788	Throttle Stop with Screw
‡P-2266	‡P-47	Throttle Stop Clamp Screw
‡P-12375	‡P-2267	Throttle Stop Set Screw
P-7098	P-7098	Aux Needle Channel Plug (upper)
P-7098	P-7098	Idle Discharge Channel Plug
P-7336	P-7336	Aux Needle Valve Adj Nut
P-7338	P-7338	Main Discharge Jet Gasket (lower)
P-8493		Idle Channel Expansion Plug
P-8793	P-14246	Throttle Lever with Screw
‡P-3199	‡P-3199	Throttle Lever Clamp Screw
P-9394	P-9394	Aux Needle Valve Spg Washer
P-10146	P-14724	Choke Valve
P-11250	P-11250	Pump Lever Washer
*P-11335	P-11335	High Speed Needle Valve Seat (VAR)
P-11531		Choke Tube Holder Attach Screw
P-11566	P-11566	Float Fulcrum Pin
P-11571	P-11571	Float Chamber Drain Plug
P-11572	P-11572	Float Chamber Drain Plug Gasket
P-11678		Choke Tube Hldr with Sc (Comp)
‡P-11561		Choke Tube Clamp
‡P-284		Choke Tube Clamp Screw
‡P-8806		Choke Tube Clamp Screw Nut
P-11964		High Speed Needle Valve Cap
P-12356	P-12356	Strainer Plug
P-12461	P-12461	Air Horn Gasket
P-12464	P-14810	Pump Piston Spring
*P-12465	P-12465	By-Pass Jet (VAR.)
*P-12471	P-12471	Large Venturi Tube (VAR)
P-12478	P-12478	Pump Piston Valve
*P-12481	P-12481	High Speed Bleeder (VAR.)
P-12490	P-12728	Pump Lever (Comp)
P-12496	P-12496	Pump Cam with Screw
‡P-284	‡P-284	Pump Cam Clamp Screw
P-12498	P-12498	Auxiliary Gasoline Nozzle
P-12499	P-14749	Economizer Push Rod
P-12509	P-12509	Economizer Needle Valve (Comp)
‡P-10173	‡P-10173	Econ Needle Valve Washer
‡P-8344	‡P-8344	Econ Needle Valve Open Washer
‡P-12507	‡P-12507	Econ Needle Valve Spring
P-12538	P-14645	Aux Control Lever Fulcrum Screw
P-12541		Choke Lever with Stem (Comp)
‡P-13046		Choke Wire Clamp Screw
P-12544	P-14747	Throttle Lever Stem
P-12549	P-13125	High Speed Needle Valve
P-12673	P-13166	Pump Lever Spring
P-12696	P-12696	Economizer Push Rod Cap
P-12900	P-12900	Small Venturi Tube
P-12901	P-12902	Air Horn
P-12905	P-12905	Float Chamber Cover
P-12906	P-12906	Gasket Support
P-12908	P-12908	Aux Control Lever (Comp)
‡P-2266	‡P-2266	Aux Cont Chk Lever Clamp Sc
P-12912	P-12912	Float with Lever
†P-12915	P-14725	Air Horn with Valve (Comp)
P-12916	P-14748	Idle Tube
P-12918	P-12918	Auxiliary Needle Valve
P-12919	P-12919	Main Body Gasket
P-12921	P-14753	Pump Discharge Nozzle
P-12922	P-12922	Main Discharge Jet Nut
*P-12923	P-12727	Throttle Valve Body (VAR.)
‡P-10351		Throttle Stem Bushing
P-12924	P-12924	Main Body
P-12928	P-12928	Pump Piston Link Washer
P-12958	P-12958	Strainer
P-13110	P-13110	Auxiliary Needle Valve Spring
P-13133	P-13133	Main Body Attaching Screw
P-13210		High Speed Needle Valve Spring
*P-13808	P-14903	Main Discharge Jet (VAR)
P-14159	P-14159	Pump Cam Set Screw
P-14196	P-11555	Idle Needle Valve
P-14474	P-14474	Pump Piston and Sleeve
P-18316	P-18316	Float Needle Valve and Seat
P-20235	P-20235	Strainer Plug Gasket
None shown	P-1791	Large Venturi Set Screw Washer
None shown	P-9025	Large Venturi Set Screw
None shown	P-11531	Choke Stop Attaching Screw
None shown	P-13828	Choke Lever Stem Collar
None shown	P-14614	Choke Lever Stop
None shown	P-14656	Choke Valve Plate
None shown	P-14733	Choke Lever Stem
None shown	P-14763	Choke Stem Block
None shown	P-14776	Choke Lever with Screw
None shown	‡P-3199	Choke Lever Clamp Screw
None shown	P-15346	Choke Stop Attach Screw Washer
None shown	P-11554	Idle Needle Valve Washer

J-4195-G U-4 Complete Gasket Set
J-4195 G UX-4 Complete Gasket Set

*NOTE On parts marked (VAR) size must be specified when ordering

STANDARD SPECIFICATIONS

CHRYSLER "80-L" 1928 (77815)

3⅝" x 5"—6 Cyl

No A-11564—UX-4 Carburetor (Code No 4-28)

Special Part Used on Above Model Car	
P-6055	Throttle Valve (21°)
P-11335	No 41-H S N Valve Seat
P-12916	Idle Tube, No 60 Feed, No 52 Top Hole
P-12471	Venturi 1⅜"
P-12917	Main Discharge Jet A-30—B-4
P-12481	High Speed Bleeder No 60
P-12465	By-Pass Jet 040'
P-12923	Thro Valve Body with No 53-62 Idle Holes, Flange Tapped $\frac{7}{16}$-14"

PIERCE-ARROW "C" 1929 (734437)

3⅜" x 4¾"—8 Cyl.

No A-13774—U-4 Carburetor (Code No. 18-11)

Special Part Used on Above Model Car	
P-11335	No 41 H S N Valve Seat
P-12465	By-Pass Jet 046'
P-12471	Venturi 1⅜'
P-12481	High Speed Bleeder No 58
P-12727	Thro Valve Body with No 54-60 Idle Holes Drilled 15/32"
P-14748	Idle Tube, No 65 Feed, No 52 Top Hole
P-14812	Throttle Valve (21½°)
P-14903	Main Discharge Jet No 46 No 34-4

STANDARD SETTINGS FOR UX-4 AND U-4 CARBURETORS

Throttle Valve Location Lower idle hole to be exposed with valve closed UX-4— 044 to 050 or (No 57 drill go and No 54 drill no go gauge)

U-4— 036 plus or minus 004 or (No 67 drill go and No 60 drill no go gauge)

Pump Travel UX-4—21/32" U-4—½"

Auxiliary Needle Valve 3/32' lift

Economizer Needle To start to open when throttle valve is cracked open with UX-4—17/64 drill, U-4—No 6 drill

Pump Capacity U-4—22 to 28 CC per 10 strokes

REPLACEMENT EQUIPMENTS

PARTS AND SETTINGS EXCEPTIONS MODELS UX-4 and U-4 STANDARD CARBURETORS

(Passenger Cars and Trucks)

DODGE TRUCK 1930—3-TON

3⅜ x5"—6 Cylinder Chrysler "80-L" Engine

J 4402 UX-4 Carburetor

Std Part No	Special Part No	Used on Above Model Truck
None Shown	P-20843	Studs in Flange
None Shown	P-20841	Bell Crank Assembly

GRAHAM PAIGE 1928 "8-35"

3⅞" x 4½" 8 Cyl.

J-4007 UX-4 Carburetor and Equipment (Code No 9-10)

Std Part No	Special Part	Used on Above Model Carburetor
P-12915	P-15450	Air Horn with Valve
P-13808	P-13808	A-30 B-4 Main Disch Jet
P-12923	P-12923	Throttle Valve Body, 53-62 Idle Holes, Flange Drilled 13/32'
None Shown	P-15449	Gas Union Elbow
None Shown	J-4100	Bell Crank Assembly

EQUIPMENT

J-4007-F Manifold Fitting—P-4754 Gaskets—P-79 Cotter Pin

PACKARD 1927-'28 "443" Std. 8

3½" x 5" 8 Cyl

J-3931 UX-4 Carburetor and Equipment (Code No 10-19)

Std Part No	Part	Used on Above Model Car
P-7041	P-7175	Thro Stop
P-12465	P-12465	046" By Pass Jet
P-12471	P-12471	1¼" Venturi
P-12544	P-15589	Thro Stem
P-13808	P-19196	A-30 B-4 Main Disch Jet
P-12915	P-15590	Air Horn Assembly
P-12923	P-12923	Throttle Valve Body, 53 62 Idle Holes, Flange Tapped $\frac{7}{16}$-14
None Shown	P-9416	Air Horn Lever
None Shown	P-9940	Air Horn Lever Stop
None Shown	P-3221	Union Elbow

NOTE Throttle Valve Location, flush plus or minus 004

EQUIPMENT

J-3931-F Manifold Fittings—P-4754 Gaskets—P-15529 Studs—P-19808 Thro Conn Sleeve—P-15438 Nuts—P-12225 Headless Set Screw

PACKARD 1928-'29 "640", "645"

3½" x 5" 8 Cyl.

J-4077 UX-4 Carburetor and Equipment (Code No 10-15)

Std. Part No.	Special Part	Used on Above Model Car
P-7041	P-7175	Thro Stop
P-12471	P-12471	1¼ Venturi
P-12544	P-15589	Thro Stem
P-12905	P-15528	Float Chamber Cover
P-12915	P-15590	Air Horn Assembly
P-12923	P-12923	Throttle Valve Body, 53-62 Idle Holes, Flange Drilled 15/32"
None Shown	P-9940	Air Horn Lever Stop
None Shown	P-9361	Air Horn Lever

NOTE Pump Capacity, 27 to 32 CC per 10 strokes

EQUIPMENT

J 4077-F Manifold Fittings—P-15208 Thro Rod—P-8737 Ball Joints—P-4754 Gaskets—P-2290 Nuts—P-15595 Gas Line Extension—P-15529 Studs—P-15530 Choke Rod—P-15597 Nuts—P-3219 Union—P-12225 Headless Set Screw—P-10001 Thro Lever

PACKARD 1930 "740", "745"

3½" x 5" 8 Cyl

J-4104 UX-4 Carburetor and Equipment

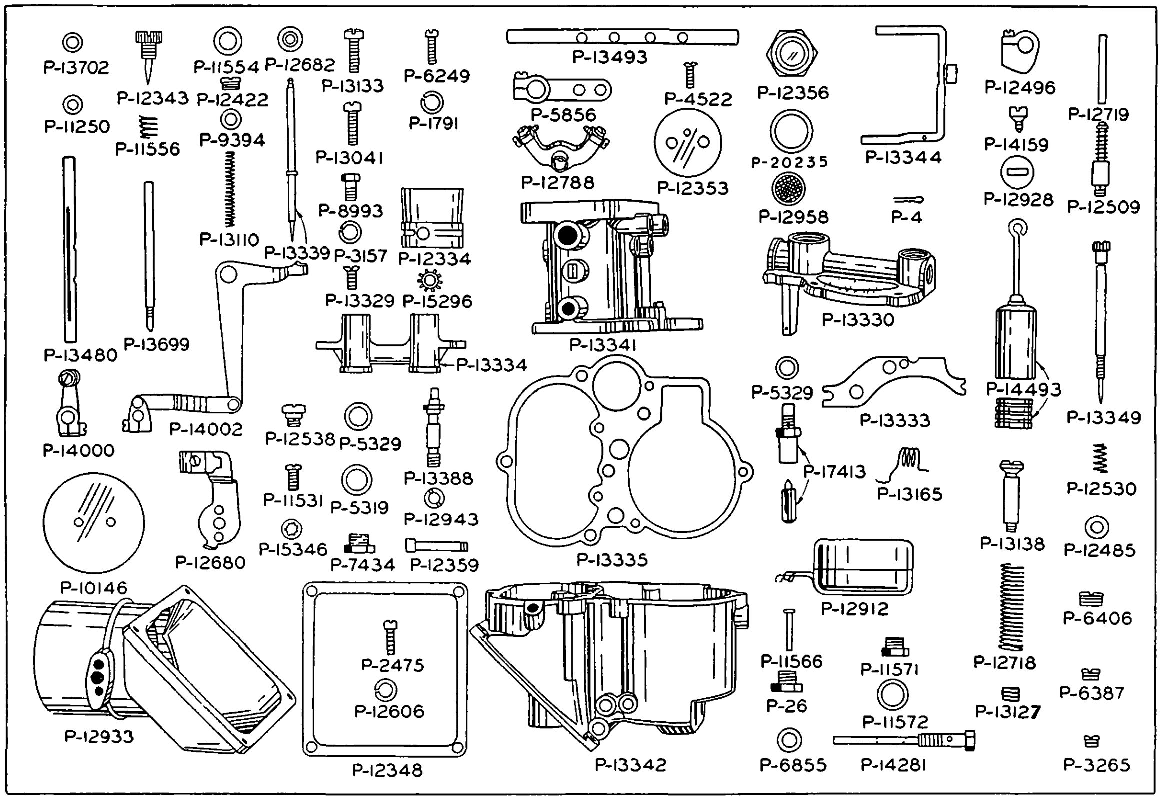
Std Part No	Special Part	Used on Above Model Car
P-7041	P-7175	Thro Stop
P-12471	P-12471	1¼" Venturi
P-12544	P-15589	Thro Stem
P-12905	P-15528	Float Chamber Cover
P-12915	P-15590	Air Horn Assembly
P-12923	P-12923	Throttle Valve Body, 53 62 Idle Holes, Flange Drilled 15/32"
None Shown	P-5026	Union Elbow
None Shown	P-9361	Air Horn Lever
None Shown	P-9940	Air Horn Lever Stop

NOTE Pump Capacity 27 to 32 CC per 10 strokes

NOTE Throttle Valve Location flush plus or minus 004

EQUIPMENT

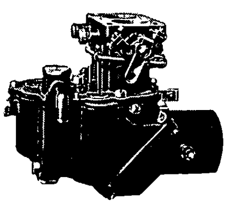
J-3931-F Manifold Fitting—P-4754 Gaskets—P-15208 Thro Rod—P-15595 Gas Line—P-3219 Union—P-8737 Ball Joint—P-10750 Nuts—P-10001 Thro Lever—P-15529 Studs—P-12225 Set Screws—P-15597 Nuts



UU-2 N . A-12692

(Obsolete)

1¼" DUAL CARB.



Notes and References:
Car models having this carburetor with parts exceptions therefor are shown on back of this page

†These parts not illustrated

‡Indicates Sub-assembly part

PARTS LIST STROMBERG MODEL "UU-2" STANDARD CARBURETOR (with Standard Ch ke Valv)

Part No	Name	
P-4	Pump Lever Cotter Pin	
P-26	Gasoline Connection Plug	
P-1791	Float Chamber Cover Screw Lock Washer	
P-2475	Air Horn Attaching Screw	
P-2475	Float Chamber Cover Screw	
P-3157	Large Venturi Tube Set Screw Lock Washer	
P-3157	Main Body Attaching Screw Lock Washer	
P-3222	Gasoline Elbow Union	
‡P-3221	Union Elbow	
‡P-3220	Union Nut	
P-3265	Auxiliary Channel Plugs	
P 3265	Economizer Feed Channel Plugs	
P-4522	Throttle Valve Screw	
P-5319	Main Discharge Plug Gasket	
P-5329	Float Needle Valve Seat Gasket	
P-5329	Main Discharge Jet Nut Gasket	
P-5856	Throttle Lever with Screw	
‡P-3199	Throttle Lever Clamp Screw	
P-6249	Float Chamber Cover Screw (long)	
P 6387	Idle Feed Channel Plug	
P 6387	Pump Channel Plug	
P-6406	Auxiliary Gas Channel Plug	
P 6406	Auxiliary Needle Valve Channel Plug	
P-6406	Economizer Gas Channel Plug	
P-6406	Idle Channel Hole Plug	
P-6855	Main Discharge Jet Gasket	
P-6855	Metering Jet Gasket	
P-7434	Main Discharge Plug	
P-8993	Large Venturi Tube Set Screw	
P-9394	Auxiliary Needle Valve Spring Washer	
P-11250	Idle Tube Washer	
P-11554	Idling Needle Valve Washer	
P-11556	Idling Needle Valve Spring	
P-11566	Float Fulcrum Pin	
P-11571	Float Chamber Gas Level Plug	
P-11572	Float Chamber Gas Level Plug Gasket	
*P-12334	Large Venturi Tube	(VAR)
P-12343	Idling Needle Valve	
P-12348	Air Horn Gasket	
*P-12353	Throttle Valve	(VAR)
P-12356	Strainer Plug	
*P-12359	High Speed Bleeder	(VAR)
P-12422	Idle Air Bleeder	
P-12485	Pump Needle Valve Spring Washer	
P-12496	Pump Cam with Screw	
‡P-284	Pump Cam Clamp Screw	
P-12509	Economizer Needle Valve (complete)	
‡P-10173	Economizer Needle Valve Washer	
‡P-8344	Economizer Needle Valve Open Washer	
‡P-12507	Economizer Needle Valve Spring	
P-12530	Pump Needle Valve Spring	
P-12538	Auxiliary Control Lever Fulcrum Screw	
P-12606	Air Horn Attaching Lock Washer	
P-12680	Choke Tube Holder with Screw	
‡P-284	Choke Tube Clamp Screw	
‡P-2267	Choke Tube Holder Clamp Screw	
P-12682	Auxiliary Needle Valve Lift Washer	
P-12718	Pump Piston Spring	
P-12719	Economizer Push Rod	
P-12788	Throttle Stop with Screw	
‡P-47	Throttle Stop Clamp Screw	
‡P-2267	Throttle Stop Set Screw	
P-12912	Float with Lever	
P-12928	Pump Piston Link Washer	
P-12943	Main Discharge Jet Nut	
P-12958	Strainer	
P-13041	Main Body Attaching Screw	
P-13110	Auxiliary Needle Valve Spring	
*P-13127	Economizer Gas Reducer (By-Pass Jet)	(VAR)
P-13133	Main Body Attaching Screw	
P-13138	Pump Piston Valve	
P-13165	Pump Lever Spring	
P-13329	Small Venturi Attaching Screw	
P-13330	Float Chamber Cover	
P-13333	Gasket Support	
P-13334	Small Venturi Tube	
P-13335	Main Body Gasket	
P-13339	Auxiliary Needle Valve	
*P-13341	Throttle Valve Body	(VAR)
‡P-14470	Throttle Stem Bushing	
P-13342	Main Body	
P-13344	Pump Lever	
P-13349	Pump Needle Valve	
*P-13388	Main Discharge Jet	(VAR.)
†P-13482	Sp Air Horn with Valve (complete)	
‡P-12933	Air Horn	
‡P-10146	Choke Valve	
‡P-4522	Choke Valve Screw	
‡P-13480	Choke Valve Stem	
P-13493	Throttle Lever Stem	
P-13699	Idle Tube	
P-13702	Idle Tube Gasket	
P 14000	Choke Lever with Wire Connector and Screw	
‡P-46	Choke Lever Clamp Screw	
‡P-9270	Choke Wire Clamp Screw	
P-14002	Auxiliary Control Lever (complete)	
‡P 2266	Auxiliary Control Air Horn Lever Clamping Screw	
P-14159	Pump Cam Set Screw	
*P-14281	Metering Jet	(VAR)
P-14493	Pump Piston and Sleeve	
P-15296	Small Venturi Attaching Screw Lock Washer	
P-17413	Float Needle Valve and Seat	
P-20235	Strainer Plug Gasket	

J-4196-G UU-2 Complete Gasket Set

*NOTE On parts marked (VAR.) size must be specified when ordering

STANDARD SPECIFICATIONS

A-12692 UU-2 Carburetor

P-12334	$1\frac{1}{32}$" Venturi
P-12353	Throttle Valve (19½°)
P-12359	No 70 H S Bleeders
P-12422	No 55 Idle Air Bleed
P-13127	No 70 Econ Reducer
P-13341	Thro Valve Body with No 56 Top, 2 No 56 Lower Idle Holes
P-13388	A-28 B 20 Main Dis Jet
P-13699	Idle Tube No 71 Feed (2 No 58 Bleed Holes)
P-14281	042′ Meter Jet

STANDARD SETTINGS FOR UU-2 CARBURETORS

Throttle Valve Location Exposure of lower idle holes when throttle valve is fully closed to be 024 to 035 or (No 73 drill go and No 65 drill no go gauge)

Economizer Needle To start to open when throttle valve is cracked open with $\frac{5}{32}$′ drill

Pump Capacity Set pump adjusting needle so as to pump 10 to 14 CC per 10 strokes

Pump Travel 21/32

Auxiliary Needle To start to open when choke valve is 10° to 15° from wide open position

PARTS AND SETTINGS EXCEPTIONS MODEL UU-2 STANDARD CARBURETOR

(Passenger Cars)

HUPP 'M" 1928 (72733)

3" x 4¾"—8 Cyl.

No A-12312—UU-2 Carburetor.

Std Part No	Special Part	Used on Above Model Car
P-12353	P-12353	Throttle Valve 19°
P-12933	P-13599	Air Horn
P-14281	P-13395	Metering Jet 043
P-13482	P-13600	Air Horn (Comp)
P-5856	P-12815	Throttle Lever
P-14000 P-13480	P-13598	Choke Lever and Stem
P-14002	P-13338	Auxiliary Control Lever
None Shown	P-11724	Fuemer Cover Attaching Screw
None Shown	P-12606	Fuemer Cover Attach Sc L washer
None Shown	P-13170	Fuemer Cover
None Shown	P-13171	Fuemer Cover Gasket
None Shown	P-13828	Choke Stem Bushing

NOTE Throttle Valve Location Set exposure of lower idle hole (new valves) 038 to 044 or No 62 drill go No 57 no go Then with throttle valve fully closed drill through each lower hole with No 60 drill (nicking each valve)

METEOR 1930

3⅜" x 4½′—8 Cyl

No A-15532—UU-2 Carburetor

Std Part No	Special Part	Used on Above Model Car
P-5856	P-13848	Throttle Lever
P-11556	P-14482	Idle Needle Valve Spring
P-12334	P-12334	Venturi Tube $1\frac{3}{32}$
P-12343	P-14444	Idle Needle Valve
P-12353	P-14478	Throttle Valve 18°
P 12496	P-13790	Pump Cam
P-12719	P-14497	Economizer Push Rod
P-13341	P-15791	Throttle Valve Body with No 55 Lower No 56 Top Idle Holes
P-13344	P-14491	Pump Lever
P-13388	P-13388	Main Discharge Jet A-30—B-20
P-13482	P-19880	Air Horn
P-13493	P-19882	Throttle Stem
P-13699	P-14479	Idle Tube 70 Feed (3-60 Bleed Holes)
P-14281	P-14281	Metering Jet 046′

NOTE Economizer setting No 12 drill

NOTE Pump Capacity 5 to 12 CC per 10 strokes

NOTE Set exposure of lower idle holes (new valves) 034 plus or minus 004 or No 68 drill go and No 62 drill no go Then with throttle valve fully closed drill through the inner lower holes with No 55 drill and with throttle valve cracked open 012 drill through the outer holes with No 55 drill (nicking valves)

PARTS AND SETTINGS EXCEPTIONS MODEL UU-2 STANDARD CARBURETOR
(Trucks)

"MACK" INTERNATIONAL MOTOR CO. (2-AL-353)
1929 MODELS "BK" & "BJ"
4½"x5½"—6 Cylinder

A-13032 UU-2 Carburetor (Brass)

Std. Part No.	Part Used on Above Model Truck	
P-3222	P-15277	Elbow Union
P-5856	P-8123	Throttle Lever on Right Side
P-12334	P-12334	1$\frac{1}{16}$" Venturi
P-12359	P-12359	No 56 H S Bleeder
P-12422	P-12422	No 60 Air Bleeder
P-12496	P-13790	Cam and Screw
P-12538	P-6202	Plug
P-12680	P-14882	Choke Tube Holder
P-12788	P-13282	Throttle Stop
P-13165	P-13328	Torsion Spring
P-13330	P-14032	Float Chamber Cover
P-13339	P-12343	Idle Needle Valve
P-13388	P-14033	No 32-20 Main Discharge Jet
P-13395	P-13395	047 Metering Jet
P-13341	P-14041	Throttle Valve Body with 2 No 56 Lower and 1 No 56 Top Idle Holes
P-13342	P-14042	Main Body
P-13480 P-14000	P-14238	Choke Lever and Stem
P-13479	P-14261	Air Horn
P-13482	P-14239	Air Horn Assembly
P-13493	P-13893	Throttle Stem
P-13699	P-12336	Idle Tube, No 72 Feed Hole, 2 No 58 Bleeder Holes
None Shown	P-12097	Torsion Spring
None Shown	P-7990	Air Horn Plug
None Shown	P-5015	Throttle Stop Set Screw
None Shown	P-5636	Gasket
None Shown	P-6335	Hex Hd Screw Plug

OPTIONAL EQUIPMENT

1 J-3905-F—Fitting
4 P-4359 —Cap Screws
4 P-9882 —Nuts
1 P-14038—Gasket
4 P-8836 —Lockwasher

"MACK" INTERNATIONAL MOTOR COMPANY (2-BC-34)
1929 "BC"
3¾" x5½"—6 Cylinder

A-13312 UU-2 Carburetor (Brass) (Code No 24-32)

Std Part No	Part Used on Above Model Truck	
P-3222	P-15278	Union
P-5856	P-8123	Throttle Lever on Right
P-12359	P-12359	No 60 High Speed Bleeder
P-12422	P-12422	No 60 Idle Air Bleeder
P-12538	P-6202	Plug
P-12680	P-14882	Choke Tube Holder
P-12788	P-13282	Throttle Stop
P-13127	P-13127	No 68 Gas Reducer
P-13165	P-13328	Torsion Spring
P-13330	P-14032	Float Chamber Cover
P-13339	P-12343	Idle Needle Valve
P-13341	P-14041	Throttle Valve Body with 2 No 56 Lower and 1 No 56 Top Idle Holes
P-13342	P-14042	Main Body
P-13388	P-13388	No 32-20 Main Discharge Jet
P-13395	P-13395	Metering Jet 1 042 and 1 043
P-13479 P-14000	P-14238	Choke Lever and Stem
P-13482	P-14239	Air Horn Assembly
P-13493	P-13893	Throttle Stem
P-12496	P-13790	Cam and Screw
P-13699	P-12336	Idle Tube, No 72 Feed Hole 2 No 58 Bleeder Holes
None Shown	P-12097	Torsion Spring
None Shown	P-7990	Air Horn Plug
None Shown	P-5015	Throttle Stop Set Screw
None Shown	P-5636	Gasket
None Shown	P-6335	Hex Hd Screw Plug

OPTIONAL EQUIPMENT

1 J-3905-F—Fitting
4 P-4359—Cap Screw
4 P-9882—Nut
1 P-14038—Gasket
4 P-8836 —Lockwasher

"MACK" INTERNATIONAL MOTOR CAR CO. 1929 (2-BC-36)
4"x5½"—6 Cylinder

A-13982 UU-2 Carburetor (Brass)

Std Part No.	Part Used on Above Model Truck	
P-3222	P-15278	Union
P-5856	P-8123	Throttle Lever on Right Side
P-12334	P-12334	1$\frac{1}{16}$" Venturi Tube
P-12339	P-12343	Idle Needle Valve
P-12359	P-12359	No 56 H S Bleeder
P-12422	P-12422	No 60 Idle Air Bleeder
P-12496	P-13790	Cam and Screw
P-12538	P-6202	Plug
P-12680	P-14882	Choke Tube Holder
P-12788	P-13282	Throttle Stop
P-13165	P-13328	Torsion Spring
P-13330	P-14032	Float Chamber Cover
P-13341	P-14041	Throttle Valve Body with 2 No 56 Lower and 1 No 56 Top Idle Hole
P-13342	P-14042	Main Body
P-13388	P-14033	No 32-20 Main Discharge Jet
P-13395	P-13395	042 Metering Jet
P-13479	P-14261	Air Horn
P-13480 P-14000	P-14238	Choke Stem and Lever
P-13482	P-14239	Air Horn Assembly
P-13493	P-13893	Throttle Stem
P-13699	P-12336	Idle Tube, No 72 Feed Hole, and 2 No 58 Bleeder Holes
None Shown	P-12097	Torsion Spring
None Shown	P-7990	Air Horn Plug
None Shown	P-5015	Throttle Stop Set Screw
None Shown	P-5636	Gasket
None Shown	P-6335	Hex Hd Screw Plug

OPTIONAL EQUIPMENT

1 J-3905-F—Fitting
4 P-4359 —Cap Screws
4 P-9882 —Nuts
1 P-14038—Gasket
4 P-8836 —Lockwasher

REPLACEMENT EQUIPMENTS

PARTS AND SETTINGS EXCEPTIONS MODELS UU-2 STANDARD CARBURETOR

(Passenger Cars and Trucks)

AUBURN 1928-'29 MODEL "115"

3¼" x 4½" 8 Cyl.

J-4084 UU-2 Carburetor

Std Part No.	Special Part	Used on Above Model Car
P-3222	P-8644	Elbow Union
P-5856	P-7887	Thro Lever
P-12334	P-12334	1 1/16' Venturi
P-12353	P-14478	19½° Thro Valve with No 50 Hole
P-12680	P-12677	Tube Holder
P-12718	P-13826	Pump Spring
P-13127	P-13127	No 62 Econ Reducer
P-13138	P-13784	Syringe Valve
P-13341	P-14401	Thro Valve Body with No 56 Idle Holes
P-13388	P-13829	No 30 M D Jet
P-13493	P-15463	Thro Lever Stem
P-13699	P-19779	Idle Tube, No 70 Feed Hole
P-14281	P-14281	028" Met Jet
P-14493	P-14494	Piston and Sleeve
None Shown	P-12428	Loose Thro Lever
None Shown	P-6123	Loose Lever Stop

NOTE Pump Capacity, 4 to 7 CC per 10 strokes

NOTE Throttle Valve Location Exposure of lower idle holes, 031 to 039 or (No 68 drill go, No 61 drill no go)

AUBURN 1928-'29 MODEL "120", "125"

3¼" x 4½" 8 Cyl.

J-4085 UU-2 Carburetor

Std Part No	Special Part	Used on Above Model Car
P-3222	P-8644	Elbow Union
P-5856	P-7887	Thro Lever
P-12334	P-12334	1 1/16 Venturi
P-12353	P-13849	19½° Thro Valve with No 50 Hole
P-13127	P-13127	No 62 Econ Reducer
P-13341	P-14401	Thro Valve Body with No 55 Idle Holes
P-13388	P-13388	A-30 B-20 Main Disch Jet
P-13493	P-15463	Thro Stem
P-13699	P-19779	Idle Tube No 70 Feed Hole
P-14281	P-14281	040' Meter Jet
None Shown	P-12428	Loose Thro Lever
None Shown	P-6123	Loose Lever Stop

NOTE Pump Capacity 5 5 CC per 10 strokes Pump needle 1 turn open

NOTE Throttle Valve Location Exposure of lower idles holes, 039 plus or minus 004 or (No 65 drill go No 57 drill no go)

AUBURN 1928-'29 "8-88" AND "8-90"

2⅞" x 4¾" 8 Cyl.

J-4086 UU-2 Carburetor

Std Part No	Special Part	Used on Above Model Car
P-3222	P-8644	Elbow Union
P-5856	P-7887	Thro Lever
P-12334	P-12334	1 Venturi
P-12353	P-14478	19½° Thro Valves with No 50 Hole
P-12680	P-8895	Tube Holder
P-12718	P-13826	Pump Spring
P-13127	P-13127	No 68 Econ Reducer
P-13138	P-13784	Syringe Valve
P-13341	P-14401	Thro Valve Body with No 55 Idle Holes
P-13342	P-14782	Main Body
P-13388	P-13829	No 30 Main Disch Jet
P-13482	P-13482	Spec Air Horn and Valve With
P-13480	P-15627	Air Horn Lever Stem
P-13493	P-14673	Thro Stem
P-13699	P-19779	Idle Tube No 70 Feed Hole
P-14000	P-8891	Air Horn Lever
P-14002	P-13484	Aux Control Lever
P-14281	P-14281	034" Meter Jet
P-14493	P-14494	Piston and Sleeve
None Shown	P-14771	No 76 Pump Gas Vents
None Shown	P-12428	Loose Lever
None Shown	P-6123	Loose Lever Stop

NOTE Pump Capacity, 5 5 CC per 10 strokes Pump needle 1¼ turn open

NOTE Throttle Valve Location Exposure of lower idle holes, 036 to 043 or (No 64 drill go, No 57 drill no go)

CORD 1930

3¼"x4½ — Cylinder Engine

J-4083-A UU-2 Carburetor and Equipment

Std Part No	Special Part	Used on Above Model Car
P-3222	P-8644	Union Elbow
P-5856	P-8221	Special Blank Throttle Lever (Tapped ¼-28 on ⅞ CC, and drilled No 30 on 1½ CC) on Right Side
P-12334	P-12334	1 1/16' Venturi
P-12680	P-15671	Choke Tube Holder
P-13127	P-13127	No 62 Econ Reducer
P-13341	P-13341	Throttle Valve Body, No 56 Top, 2 No 55 Lower, Idle Discharge Holes
P-13388	P-13388	No A-30, B-20 Main Discharge Jet with No 70 H S Bleeder
P-13493	P-15463	Throttle Stem
P-13699	P-13699	Special Idle Tube, No 71 Feed Hole, 2 No 58 Bleeder Holes
P-14281	P-14281	040" Main Metering Jet
None Shown	P-15784	Throttle Loose Lever
None Shown	P-6123	Throttle Loose Lever Stop

EQUIPMENT

P-12646 Gasket—P-2430 Stud

NOTE Throttle Valve Location, flush plus or minus 004

NOTE Pump Adj Needle open 1 turn

KISSEL 1929 "8-126"

3¼" x 4½" 8 Cyl.

J-4059 UU-2 Carburetor

Std Part No	Special Part	Used on Above Model Car
P-5856	P-5935	Thro Lever and Screw
P-12334	P-12334	1 1/16" Venturi
P-14281	P-14281	046' Meter Jet

KISSEL 1929 "8-95"

2⅞' x 4¾" 8 Cyl

J-4048 UU-2 Carburetor and Equipment

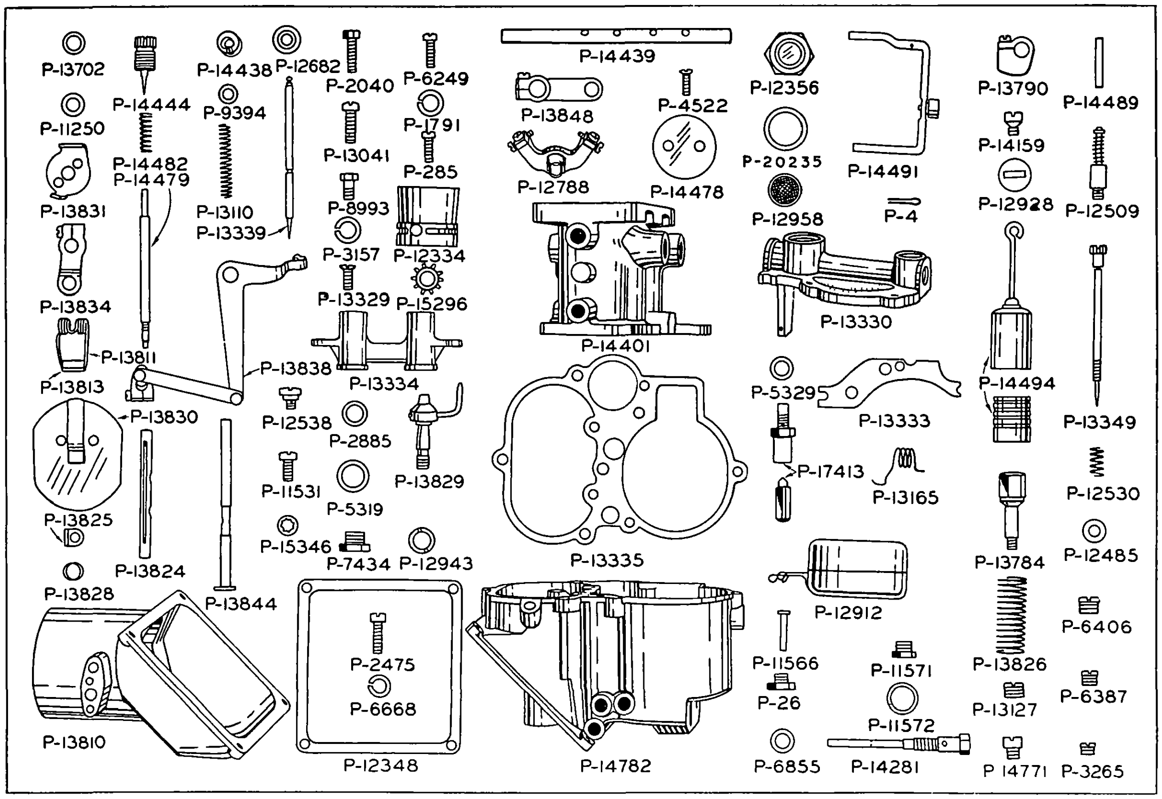
Std Part No	Special Part	Used on Above Model Car
P-5856	P-13892	Thro Lever and Screw
P-12334	P-12334	31/32 Venturi
P-12680	P-12677	Tube Holder
P-13388	P-12939	A-28 B-20 M D Jet
P-13480	P-13350	Air Horn Stem
P-13493	P-16282	Thro Stem
P-13699	P-14133	Idle Tube, 72 Feed, (2 58 Feed Holes)
None Shown	P-8779	Loose Thro Lever
None Shown	P-6123	Loose Lever Stop

EQUIPMENT

P-12646 Gaskets—P-9886 Gas Line 21" Long

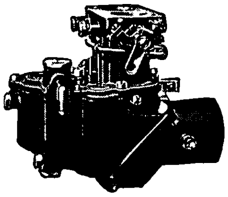
NOTE Pump Capacity, 7 to 10 CC per 10 strokes

NOTE Throttle Valve Location Exposure of lower idle holes, 023 to 031 or (No 74 drill go No 68 drill no go)



UU-2

N . A-12712X2
(Obsolete)
1¼" DUAL CARB.



Notes and References:

Car models having this carburetor with parts exceptions therefor are shown on back of this page.

†These parts not illustrated

‡Indicates Sub-assembly part

PARTS LIST STROMBERG MODEL "UU-2" STANDARD CARBURETOR (Cast Iron Thro. Body and Flexibl Choke Valve

Part No	Name	
P-4	Pump Lever Cotter Pin	
P-26	Gasoline Connection Plug	
P-285	Choke Valve Spring Clamp Screw	
P-1791	Float Chamber Cover Screw Lock Washer	
P-2040	Main Body Attaching Screw	
P-2475	Air Horn Attaching Screw	
P-2475	Float Chamber Cover Screw	
P-2885	Main Discharge Jet Gasket	
P-3157	Main Body Attaching Screw Lock Washer	
P-3157	Large Venturi Tube Set Screw Lock Washer	
P-3265	Economizer Feed Channel Plug	
P-4522	Choke Valve Screw	
P-4522	Throttle Valve Screw	
P-5319	Main Discharge Plug Gasket	
P-5329	Float Needle Valve Seat Gasket	
P-5329	Main Discharge Jet Nut Gasket	
P-6249	Float Chamber Cover Screw (long)	
P 6387	Idle Feed Channel Plug	
P-6387	Pump Channel Plug	
P 6406	Auxiliary Needle Valve Channel Plug	
P-6406	Auxiliary Gas Channel Plug	
P 6406	Economizer Gas Channel Plug	
P-6668	Air Horn Attaching Lock Washer	
P-6855	Metering Jet Gasket	
P-7434	Main Discharge Plug	
P-8993	Large Venturi Tube Set Screw	
P-9394	Auxiliary Needle Valve Spring Washer	
P-11250	Idle Tube Washer	
P-11250	Pump Lever Washer	
P-11531	Choke Lever Stop Attaching Screw	
P-11566	Float Fulcrum Pin	
P-11571	Float Chamber Gas Level Plug	
P-11572	Float Chamber Gas Level Plug Gasket	
*P-12334	Large Venturi Tube	(VAR)
P-12348	Air Horn Gasket	
P-12356	Strainer Plug	
P-12485	Pump Needle Valve Spring Washer	
P-12509	Economizer Needle Valve (complete)	
‡P-10173	Economizer Needle Valve Washer	
‡P-8344	Economizer Needle Valve Open Washer	
‡P-12507	Economizer Needle Valve Spring	
P-12530	Pump Needle Valve Spring	
P-12538	Auxiliary Control Lever Fulcrum Screw	
P-12682	Auxiliary Needle Valve Lift Washer	
P-12788	Throttle Stop with Screw	
‡P-47	Throttle Stop Clamp Screw	
‡P-2267	Throttle Stop Set Screw	
P-12912	Float with Lever	
P-12928	Pump Piston Link Washer	
P-12943	Main Discharge Jet Nut	
P-12958	Strainer	
P-13041	Main Body Attaching Screw	
P-13110	Auxiliary Needle Valve Spring	
*P-13127	Economizer Gas Reducer (By-Pass Jet)	(VAR)
P-13165	Pump Lever Spring	
P-13329	Small Venturi Attaching Screw	
P-13330	Float Chamber Cover	
P-13333	Gasket Support	
P-13334	Small Venturi Tube	
P-13335	Main Body Gasket	
P-13339	Auxiliary Needle Valve	
P-13349	Pump Needle Valve	
P-13702	Idle Tube Gasket	
P-13784	Pump Piston Valve	
P-13790	Pump Cam with Screw	
‡P-284	Pump Cam Clamp Screw	
P-13811	Choke Valve Spring	
P-13813	Choke Valve Spring Block	
†P-13816	Air Horn with Valve (Complete)	
‡P-13810	Air Horn	
P-13824	Choke Lever Stem	
P-13825	Choke Valve Spring Washer	
P-13826	Pump Piston Spring	
P-13828	Choke Lever Stem Bushing	
*P-13829	Main Discharge Jet	(VAR.)
P-13830	Choke Valve (Complete)	
P-13831	Choke Lever Stop	
P-13834	Choke Lever with Screw	
‡P-3199	Choke Lever Clamp Screw	
P-13838	Auxiliary Control Lever (complete)	
‡P-2266	Auxiliary Control Lever Clamping Screw	
P-13844	Choke Lever Stem with Washer	
P-13848	Throttle Lever with Screw	
‡P-3199	Throttle Lever Clamp Screw	
P-14159	Pump Cam Set Screw	
*P-14281	Metering Jet	(VAR)
*P-14401	Throttle Valve Body	(VAR)
P-14438	Idle Channel Hole Washer	
P-14439	Throttle Lever Stem	
P-14444	Idle Needle Valve	
*P-14478	Throttle Valve	(VAR)
P-14479	Idle Tube	
P-14482	Idle Needle Valve Spring	
P-14489	Economizer Push Rod	
P-14491	Pump Lever	
P-14494	Pump Piston and Sleeve	
*P-14771	Pump Channel Gas Vent	(VAR)
P 14782	Main Body	
P-15296	Small Venturi Attaching Screw Lock Washer	
P-17413	Float Needle Valve and Seat	
P-20235	Strainer Plug Gasket	

J-4196-G UU-2 Complete Gasket Set

*NOTE On parts marked (VAR.) size must be specified when ordering

STANDARD SPECIFICATION

STUDEBAKER 1928-'29 FE-FH (158210)

3½"x4⅜" 8 Cyl.

A-12712 UU-2 Carburetor (Code No 6-13)

(Cast Iron Thro. Body, Die Cast Main Body)

P-12334	1⅛" Venturi
P-13127	No 63 Econ Reducer
P-13829	No 30 Main Disch Jet with No 70 H S Bleeder
P-14281	035' Meter Jets
P-14401	Thro Valve Body with No 56 Top, 2 No 56 Lower Idle Holes
P-14771	No 65 Reducer (Pump Gas Channel Vent)
P-14478	19° Thro Valve
P-14479	Idle Tube, No 70 Feed, (3 No 60 Bleed Holes)

STANDARD SETTINGS FOR UU-2 CARBURETOR

Throttle Valve Location Exposure of lower idle holes (new valves) 034 plus or minus 004 or (No 68 drill go and No 62 drill no go gauge) Then with throttle valve closed run drill through inner idle holes with No 56 drill and with throttle valve cracked open 012 drill through the outer idle holes with No 56 drill (Nicking valves)

Economizer Needle To start to open when throttle valve is cracked open with No 35 drill

Pump Adj Needle 1½ turns open

Pump Capacity 5½ CC per 10 strokes

Auxiliary Needle To start to open when choke valve is 10° to 15° from wide open position

PARTS AND SETTINGS EXCEPTIONS MODEL UU-2 STANDARD CARBURETOR

(Passenger Cars)

PIERCE ARROW "125" AND "126" 1929 (123583)

3½"x4¾" 8 Cyl

A-12722 UU-2 Carburetor (Code No 18-5)

(With Cast Iron Thro Body and Die Cast Main Body)

Stdt Part No	Special Part	Used on Above Model Car
P-12788	P-13282	Thro Stop
P-13127	P-13127	No 70 Econ Reducer
P-13816	P-13836	Air Horn with Valve (Comp)
P-13826	P-14593	Pump Spring
P-13831	P-13888	Air Horn Lever Stop
P-13834	P-13890	Air Horn Lever
P-13848	P-5935	Thro Lever
P-14281	P-14281	046" Meter Jet
P-14439	P-13893	Thro Stem
P-14782	P-13832	Main Body
None Shown	P-3221	Union Elbow

NOTE Throttle Valve Location Exposure of lower idle holes 034 plus or minus 004 or (No 69 drill go and No 62 drill no go gauge)

NOTE Pump Capacity, 5 to 10 CC per 10 strokes with adj needle open 1 turn

STUDEBAKER FE—FH 1928-29 (C-158210)

3½x4⅜—8 Cylinders

No A-14462 UU 2 Carburetor

Std Part No	Special Part No	Used on Above Model Car
P-4522	P-14836	Air Horn Valve Screw
P-13810	P-15288	Air Horn
P-13816	P 15290	Air Horn Assy
P-13828	P-14073	Choke Lever Stem Bushing
P-13830	P-14724	Air Horn Valve
P-13834	P-14936	Choke Lever With Screw
None Shown	P-8806	Choke Tube Clamp Screw Nut
None Shown	P-11531	Choke Tube Holder Attach Screw
None Shown	P-11561	Choke Tube Holder Clamp
None Shown	P-14935	Choke Tube Clamp Screw
None Shown	P-15289	Choke Tube Holder

NOTE Auxiliary Needle To Start To Open When Choke Valve is 6° to 10° from Wide Open Position

NOTE Pump Adjustment Needle ½ Turn Plus or Minus ¼ Turn

STUDEBAKER "DICTATOR" & "COMMANDER" 61-70 1930 (168639)

3 1/16" x 4¼" 8 Cyl

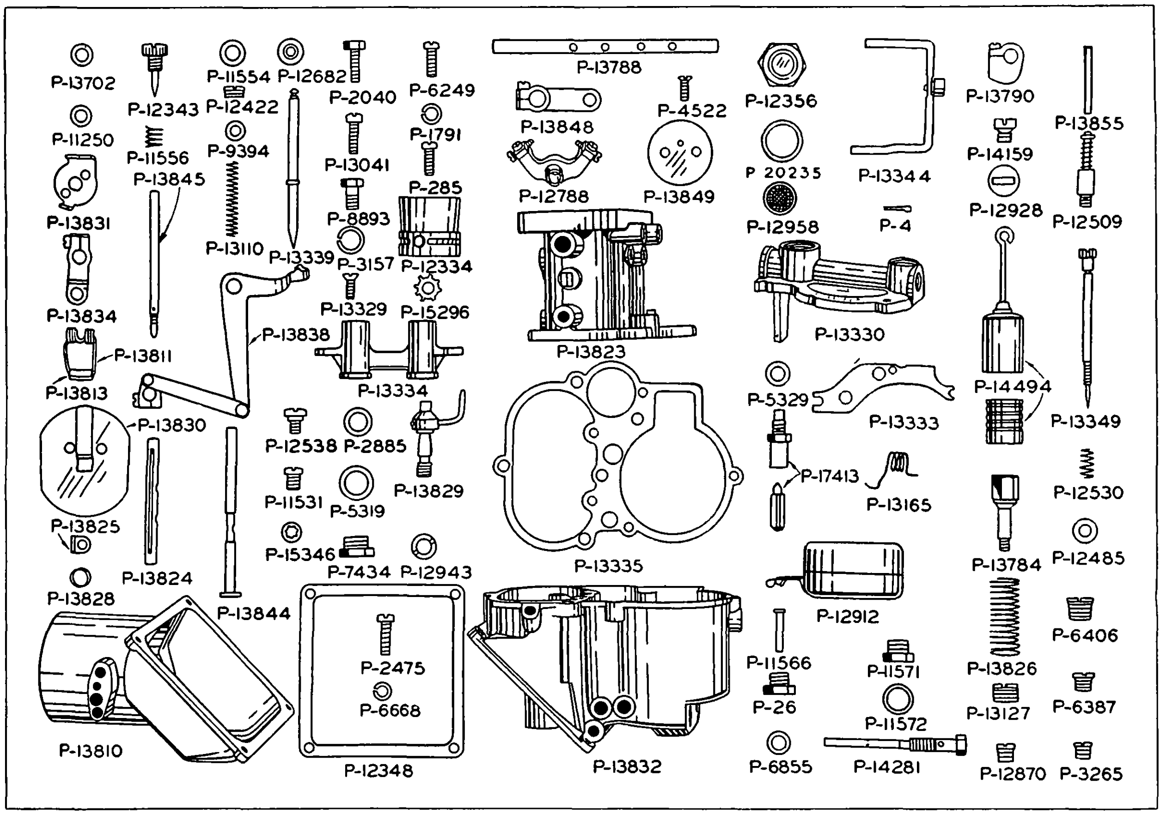
A 14022 UU-2 Carburetor (Code No 6-20)

(With Cast Iron Thro Body and Die Cast Main Body)

Stdt Part No	Special Part	Used on Above Model Car
P-4522	P-14836	Air Horn Valve Screws
P-12334	P-12334	1-3/32 Venturi
P-13127	P-13127	No 68 Econ Reducer
P-13330	P-15453	Float Chamber Cover
P-13810	P-15288	Air Horn
P-13816	P-15290	Air Horn and Valve (Complete)
P-13824	P-14934	Air Horn Stem
P-13826	P-12718	Pump Spring
P-13828	P-14073	Bushing
P-13830	P-14724	Air Horn Valve
P-13834	P-14936	Air Horn Lever
P-14281	P-14281	033' Meter Jet
P-14478	P-14958	Thro Valves 20½°
P-14489	P-14497	Econ Push Rod
P-14491	P-14957	Syringe Lever
P-14494	P-15305	Piston and Sleeve
None Shown	P-14959	Syr Valve Sleeve
None Shown	P-5359	No 40 Float Chamber Vent
None Shown	P-15289	Tube Holder
None Shown	P-14656	Air Horn Valve Plate

NOTE Pump Capacity 6 CC per 10 strokes with pump needle open ½ turn

NOTE Throttle Valve Location Set exposure of lower idle holes (new valves) 020 to 033 or (No 76 drill go No 66 drill no go) Then with both valves closed run No 56 drill through the outer idle holes and No 66 drill through the inner idle holes (nicking valves)

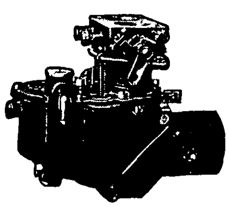


UU-2

N . A-12712X1

(Obsolete)

1¼" DUAL CARB.



Notes and References:

Car models having this carburetor with parts exceptions therefor are shown on back of this page.

†These parts not illustrated

‡Indicates Sub-assembly part

PARTS LIST STROMBERG MODEL "UU-2" STANDARD CARBURETOR (Die Cast Thro. Body & Fl x.Ch. Valv)

Part No	Name	
P-4	Pump Lever Cotter Pin	
P-26	Gasoline Connection Plug	
P-285	Choke Valve Spring Clamp Screw	
P-1791	Float Chamber Cover Screw Lock Washer	
P-2040	Main Body Attaching Screw	
P-2475	Float Chamber Cover Screw	
P-2475	Air Horn Attaching Screw	
P-2885	Main Discharge Jet Gasket	
P-3157	Large Venturi Tube Set Screw Lock Washer	
P-3157	Main Body Attaching Screw Lock Washer	
P-3265	Economizer Feed Channel Plug	
P-4522	Choke Valve Screw	
P-4522	Throttle Valve Screw	
P-5319	Main Discharge Plug Gasket	
P-5329	Float Needle Valve Seat Gasket	
P-5329	Main Discharge Jet Nut Gasket	
P-6249	Float Chamber Cover Screw (long)	
P-6387	Idle Feed Channel Plug	
P-6387	Pump Channel Plug	
P 6406	Auxiliary Gas Channel Plug	
P-6406	Auxiliary Needle Valve Channel Plug	
P-6406	Economizer Gas Channel Plug	
P-6406	Idle Channel Hole Plug	
P-6668	Air Horn Attaching Lock Washer	
P-6855	Metering Jet Gasket	
P-7434	Main Discharge Plug	
P-8993	Large Venturi Tube Set Screw	
P-9394	Auxiliary Needle Valve Valve Spring Washer	
P-11250	Idle Tube Washer	
P-11531	Choke Lever Stop Attaching Screw	
P-11554	Idling Needle Valve Washer	
P-11556	Idling Needle Valve Spring	
P-11566	Float Fulcrum Pin	
P-11571	Float Chamber Gas Level Plug	
P-11572	Float Chamber Gas Level Plug Gasket	
*P-12334	Large Venturi Tube	(VAR)
P-12343	Idling Needle Valve	
P-12348	Air Horn Gasket	
P-12356	Strainer Plug	
*P-12422	Idle Air Bleeder	(VAR.)
P-12485	Pump Needle Valve Spring Washer	
P-12509	Economizer Needle Valve (complete)	
‡P-10173	Economizer Needle Valve Washer	
‡P-8344	Economizer Needle Valve Open Washer	
‡P-12507	Economizer Needle Valve Spring	
P-12530	Pump Needle Valve Spring	
P-12538	Auxiliary Control Lever Fulcrum Screw	
P-12682	Auxiliary Needle Valve Lift Washer	
P-12788	Throttle Stop with Screw	
‡P-47	Throttle Stop Clamp Screw	
‡P-2267	Throttle Stop Set Screw	
*P-12870	Pump Channel Gas Vent	(VAR)

Part No	Name	
P 12912	Float with Lever	
P-12928	Pump Piston Link Washer	
P-12943	Main Discharge Jet Nut	
P 12958	Strainer	
P-13041	Main Body Attaching Screw	
P-13110	Auxiliary Needle Valve Spring	
*P-13127	Economizer Gas Reducer (By Pass Jet)	(VAR)
P-13165	Pump Lever Spring	
P-13329	Small Venturi Attaching Screw	
P-13330	Float Chamber Cover	
P-13333	Gasket Support	
P-13334	Small Venturi Tube	
P-13335	Main Body Gaskets	
P-13339	Auxiliary Needle Valve	
P-13344	Pump Lever	
P-13349	Pump Needle Valve	
P-13702	Idle Tube Gasket	
P-13784	Pump Piston Valve	
P-13788	Throttle Lever Stem	
P-13790	Pump Cam with Screw	
‡P-284	Pump Cam Clamp Screw	
P-13810	Air Horn	
P-13811	Choke Valve Spring	
P-13813	Choke Valve Spring Block	
†P-13816	Air Horn with Valve (Complete)	
*P-13823	Throttle Valve Body	(VAR)
‡P-14470	Throttle Stem Bushing	
P-13824	Choke Lever Stem	
P-13825	Choke Valve Spring Washer	
P-13826	Pump Piston Spring	
P-13828	Choke Lever Stem Bushing	
*P-13829	Main Discharge Jet	(VAR)
P 13830	Choke Valve (complete)	
P-13831	Choke Lever Stop	
P-13832	Main Body	
P-13834	Choke Lever with Screw	
‡P-3199	Choke Lever Clamp Screw	
P-13838	Auxiliary Control Lever (complete)	
‡P-2266	Auxiliary Control Lever Clamping Screw	
P-13844	Choke Lever Stem with Washer	
P-13845	Idle Tube	
P-13848	Throttle Lever with Screw	
‡P-3199	Throttle Lever Clamp Screw	
*P-13849	Throttle Valve	(VAR)
P-13855	Economizer Push Rod	
P-14159	Pump Cam Pin Set Screw	
*P-14281	Metering Jet	(VAR.)
P-14494	Pump Piston & Sleeve	
P-15296	Small Venturi Attaching Screw Lock Washer	
P-17413	Float Needle Valve & Seat	
P-20235	Strainer Plug Gasket	

J-4196-G UU-2 Complete Gasket Set

*NOTE On parts marked (VAR) size must be specified when ordering

STANDARD SPECIFICATION

STUDEBAKER 1928 "FE-FH" (158210)
3½"x4⅜"—8 Cylinder
A-12712X1 UU-2 Carburetor (Code No 6-13)
Die Cast Thro Body and Flex Choke Valve

P-12334	1⅛" Venturi
P-12422	No 60 Idle Air Bleed
P-12870	No 65 Pump Channel Vents
P-13127	No 63 Econ Reducer
P-13823	Thro Valve Body with No 56 Top, 2 No 55 Lower Idle Holes
P-13829	No 30 Main Dis Jet with No 70 H S Bleeder
P-13845	Idle Tube, No 69 Feed Hole (2 No 58 Bleeder holes)
P-13849	19½° Thro Valves with No 50 Hole
P-14281	035" Meter Jet

STANDARD SETTINGS FOR UU-2 CARBURETOR

Throttle Valve Location Exposure of lower idle holes when throttle valve is fully closed to be 032 to 042 or (No 67 drill go and No 58 drill no go gauge)

Economizer Needle To start to open when throttle valve is cracked open with No 35 drill.

Pump Capacity Set pump adj needle so as to pump 5½ CC per 10 strokes

Auxiliary Needle To start to open when choke valve is 10° to 15° from wide open position

PARTS AND SETTINGS EXCEPTIONS MODEL UU-2 STANDARD CARBURETOR
(Die Cast Thro. Body & Flexible Ch. Valve)
(Passenger Cars)

HUPP "C" 1929-30-31 (73143)
3' x 4¼"—8 Cyl.
No A-13402—UU-2 Carburetor (No Economizer)

Std Part No	Special Part	Used on Above Model Car
P-12334	P-12334	Venturi Tube 1 1/32
P-12422	P-12422	Idle Air Bleeder No 55
P-13788	P-13493	Throttle Lever Stem
P-13810	P-15009	Air Horn
P-13816	P-14608	Air Horn (Comp)
P-13823	P-13341	Throttle Valve Body with No 56 Top 2 No 56 Lower Idle Holes
P-13829	P-13388	Main Discharge Jet A-28—B-20
P-13831	P-14607	Choke Lever Stop
P-13832	P-13342	Main Body
P-13848	P-12815	Throttle Lever
P-13849	P-12353	Throttle Valve 18½°
P-14281	P-14281	Metering Jet 043
None Shown	P-3647	Throttle Stop Pin
None Shown	P-12359	High Speed Bleeder No 70

NOTE Pump Capacity 10 to 14 CC per 10 strokes with adj needle open 1 turn

NOTE Throttle Valve Location, flush plus or minus 004

NOTE Economizer needle valve omitted

NOTE Pump Travel 21/32

HUPP "L" 1930-31 (78460)
2⅞" x 4⅝"—8 Cyl
No A-14542—UU-2 Carburetor (No Economizer)

Std Part No	Special Part	Used on Above Model Car
P-12334	P-12334	Venturi Tube 31/32'
P-12422	P-12422	Idle Air Bleeder No 55
P-13788	P-13493	Throttle Lever Stem
P-13790	P-12496	Pump Cam
P-13810	P-15009	Air Horn
P-13816	P-14608	Air Horn (Comp)
P-13823	P-13341	Throttle Valve Body with No 56 Top 2 No 56 Lower Idle Holes
P-13829	P-13388	Main Discharge Jet A-28—B-20
P-13831	P-14607	Choke Lever Stop
P-13832	P-13342	Main Body
P-13848	P-12815	Throttle Lever
P-13849	P-12353	Throttle Valve 18½°
P-14281	P-14281	Metering Jet 039"
None Shown	P-3647	Throttle Stop Pin
None Shown	P-12359	High Speed Bleeder No 70

NOTE Pump Travel 21/32'

NOTE Economizer needle valve omitted

METEOR 1929
3" x 4¾"—8 Cyl.
No. A-13692—UU-2 Carburetor

Std Part No	Special Part	Used on Above Model Car
P-5856	P-12115	Throttle Lever
P-12334	P-12334	Venturi Tube 1'
P-12422	P-12422	Idle Air Bleeder No 55
P-13816	P-14703	Air Horn (Comp)
P-13823	P-13341	Throttle Valve Body with No 56 Top 2 No 56 Lower Idle Holes
P-13829	P-13388	Main Discharge Jet A-28—B-20
P-13834	P-14072	Choke Lever
P-13838	P-14149	Auxiliary Control Lever
P-13844	P-14075	Choke Stem with Washer
P-13849	P-13849	Throttle Valve 19½°
P-14281	P-14281	Metering Jet 042"
P-14494	P-14493	Piston and Sleeve
None Shown	P-12359	High Speed Bleeder No 70
None Shown	P-14073	Choke Stem Bushing
None Shown	P-14701	Choke Tube Holder (Comp)

NOTE Exposure of lower idle hole 022 to 029 or (No 74 drill go and No 69 drill no go gauge) Then with valve closed run No 60 drill through both holes (Nicking valves)

NOTE Pump Capacity, 7 to 10 CC per 10 strokes

NOTE Economizer to open with throttle valves cracked with 5/32" drill

PEERLESS "125" 1929 (22326)
3⅜" x 4½"—8 Cylinder
No A-13082—UU-2 Carburetor

Std Part No	Special Part	Used on Above Model Car
P-13790	P-12496	Cam and Screw
P-13816	P-14094	Air Horn and Valve (Comp)
P-13829	P-13388	Main Discharge Jet A-30—B-20
P-13831	P-13888	Choke Lever Stop
P-13832	P-13342	Main Body
P-13834	P-14168	Choke Lever
P-13838	P-14002	Auxiliary Control Lever
P-13844	P-14093	Choke Lever Stem & Washer
P-13848	P-14096	Throttle Lever
P-13849	P-13849	Throttle Valve 18½°
P-14281	P-13395	Metering Jet 046"
P-14494	P-14493	Piston and Sleeve
None Shown	P-12359	High Speed Bleeder No 70

NOTE Throttle Valve Location flush plus or minus 004

NOTE Pump Capacity 4 to 8 CC per 10 strokes

NOTE Economizer to open with throttle valve cracked with a 5/32" drill

PIERCE ARROW 1929 MODELS "125" & "126" (123583)
3½"x4¾'—8 Cylinder Engine
A-12722 UU-2 Carburetor (Die Cast Throttle Valve Body)

Stdt Part No	Special Part	Used on Above Model Car
P-13165	P-13328	Syringe Lever Torsion Spring
P-13788	P-13893	Throttle Lever Stem
P-13816	P-13836	Air Horn (Complete)
P-13826	P-13827	Syringe Helical Spring
P-13831	P 13888	Choke Stop
P-13834	P-13890	Choke Lever
P-13845	P-13966	Idle Tube
P-13848	P-5935	Throttle Lever
P-13849	P-12353	Throttle Valve (18°)
P-14281	P-14281	046 Main Metering Jet
P-17788	P-13282	Throttle Stop with Screw
None Shown	P-5015	Throttle Stop Set Screw
None Shown	P-3221	Elbow Union

NOTE Pump Capacity 5 to 10 CC per 10 strokes Pump adj needle open 1 turn

NOTE Exposure of lower idle holes 034 plus or minus 004 or (No 69 drill go and No 62 drill no go gauges)

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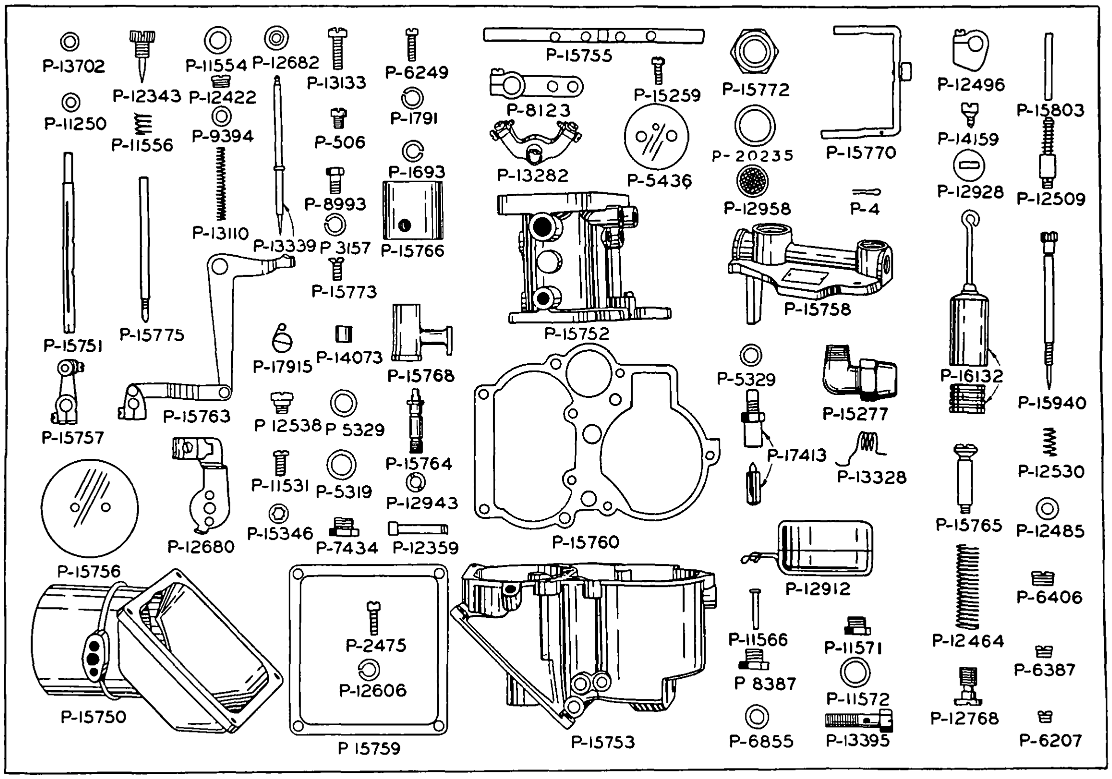
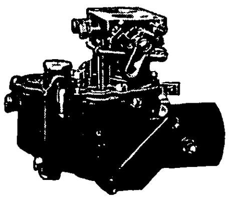


UU-3 N . 13313
1½ DUAL CARB



Notes and References.

Car models having this carburetor with parts exceptions therefor are shown on back of this page

†These parts not illustrated

‡Indicates Sub-assembly part

PARTS LIST STROMBERG MODEL "UU-3" CARBURETOR (as used on Mack "AP" Truck)

Part No	Name	
P-4	Pump Lever Cotter Pin	
P-506	Choke Valve Screw	
P-506	Choke Valve Return Spring Screw	
P-1693	Choke Valve Return Spring Screw Lockwasher	
P-1693	Choke Valve Screw Lockwasher	
P-1693	Throttle Valve Screw Lockwasher	
P-1791	Float Chamber Cover Screw Lockwasher	
P-2475	Air Horn Attaching Screw	
P-3157	Main Body Attaching Screw Lockwasher	
P-3157	Small Venturi Tube Set Screw Lockwasher	
P-5015	Throttle Stop Set Screw	
P-5319	Main Discharge Plug Gasket	
P-5329	Float Needle Valve Seat Gasket	
P-5329	Main Discharge Jet Nut Gasket	
*P-5436	Throttle Valve	(VAR)
P-5674	Small Venturi Att Screw	
P-6207	Economizer Gas Channel Plug	
P-6207	Auxiliary Channel Plug	
P-6249	Float Chamber Cover Screw	
P-6387	Auxiliary Feed Channel Plug	
P-6387	Idle Feed Channel Plug	
P-6387	Pump Channel Plug	
P-6406	Auxiliary Needle Channel Plug	
P-6406	Float Chamber Drain Plug	
P-6406	Idle Channel Hole Plug	
P-6668	Air Horn Attaching Lockwasher	
P-6855	Metering Jet Gasket	
P-6855	Main Discharge Jet Gasket	
P-7434	Main Discharge Plug	
P-8387	Float Chamber Pipe Plug	
P-8993	Small Venturi Tube Set Screw	
P-9394	Auxiliary Needle Valve Spring Washer	
P-11250	Idle Tube Washer	
P-11531	Choke Tube Holder Attach Screw	
P-11554	Idle Needle Valve Washer	
P-11556	Idle Needle Valve Spring	
P-11566	Float Fulcrum Pin	
P-11571	Float Chamber Gas Level Plug	
P-11572	Float Chamber Gas Level Plug Gasket	
P-12343	Idle Needle Valve	
*P-12359	High Speed Bleeder	(VAR)
*P-12422	Idle Air Reducer	(VAR)
P-12464	Pump Piston Spring	
P-12485	Pump Needle Valve Spring Washer	
P-12496	Pump Cam with Screw	
‡P-284	Pump Cam Clamp Screw	
P-12509	Economizer Needle Valve (Complete)	
‡P-10173	Economizer Needle Valve Washer	
‡P-8344	Economizer Needle Valve Open Washer	
‡P-12507	Economizer Needle Valve Spring	
P-12530	Pump Needle Valve Spring	
P-12538	Auxiliary Control Lever Fulcrum Screw	

Part No	Name	
P-12680	Choke Tube Holder with Screw	
‡P-8806	Choke Tube Clamp Screw Nut	
‡P-11561	Choke Tube Holder Clamp	
‡P-12868	Choke Tube Clamp Screw	
P-12682	Auxiliary Needle Valve Washer	
*P-12768	By-Pass Jet	(VAR)
P-12912	Float	
P-12928	Pump Piston Link Washer	
P-12943	Main Discharge Jet Nut	
P-12958	Strainer	
P-13110	Auxiliary Needle Valve Spring	
P-13133	Main Body Attaching Screw	
P 13282	Throttle Stop with Screw	
‡P-47	Throttle Stop Clamp Screw	
‡P-2267	Throttle Stop Set Screw	
P-13328	Pump Lever Spring	
P-13339	Auxiliary Needle Valve	
*P-13395	Metering Jet	(VAR)
P-13702	Idle Tube Cork Gasket	
P-14073	Choke Lever Stem Bushing	
P-14159	Pump Cam Pin	
P-15259	Throttle Valve Screw	
P-15277	Gasoline Union Elbow	
P-15346	Choke Tube Holder Att Screw Lockwasher	
P-15750	Air Horn	
P-15751	Choke Lever Stem	
*P-15752	Throttle Valve Body	(VAR)
‡P-14470	Throttle Stem Bushing	
P-15753	Main Body	
†P-15754	Air Horn with Valve (Complete)	
P-15755	Throttle Lever Stem	
‡P-8123	Throttle Lever with Screw	
‡P 3199	Throttle Lever Clamp Screw	
P-15756	Choke Valve	
P-15757	Choke Lever (Complete)	
‡P-506	Choke Lever Wire Clamp Screw	
‡P-46	Choke Lever Clamp Screw	
P-15758	Float Chamber Cover	
P-15759	Air Horn Gasket	
P-15760	Main Body Gasket	
P-15763	Auxiliary Control Lever	
*P-15764	Main Discharge Jet	(VAR)
P-15765	Pump Piston Valve	
P-15766	Small Venturi Tube	
P-15768	Small Venturi Tube	
P-15770	Pump Lever	
P-15772	Strainer Plug	
P-15773	Small Venturi Tube Dowel Pin	
P-15775	Idle Tube	
P-15803	Economizer Push Rod	
P-15940	Pump Needle Valve	
P-16132	Pump Piston and Sleeve	
P-17915	Choke Valve Return Spring	
P-17413	Float Needle Valve and Seat	
P-20235	Strainer Plug Gasket	

J 4493 G UU 3 Complete Gasket Set

*NOTE On parts marked (VAR) size must be specified when ordering

STANDARD SPECIFICATION

MACK "AP" FIRE TRUCK & RAIL CAR (2-AP-316)
5" x 6" 6 Cyl.
A-13313 UU-3 Carburetor

P-5436	20° Throttle Valve
P-12359	No 54 H S Bleeder
P-12422	No 60 Idle Air Bleed
P-12768	045 By Pass Jet
P-13395	055 Meter Jet
P-15752	Thro Valve Body with No 56 Top 2 No 55 Lower Idle Holes
P-15764	A-26 B-18 Main Disch Jet
P-15766	1 5/32 Venturi
P-15775	Idle Tube No 68 Feed (2 No 58 Bleed Holes)

STANDARD SETTINGS FOR UU-3 CARBURETORS

Throttle Valve Location 004 to 008 above top of lower idle hole with throttle valve fully closed

Economizer Needle To start to open when throttle valve is cracked open with 5/32 drill

PARTS AND SETTINGS EXCEPTIONS MODEL UU-3 STANDARD CARBURETOR

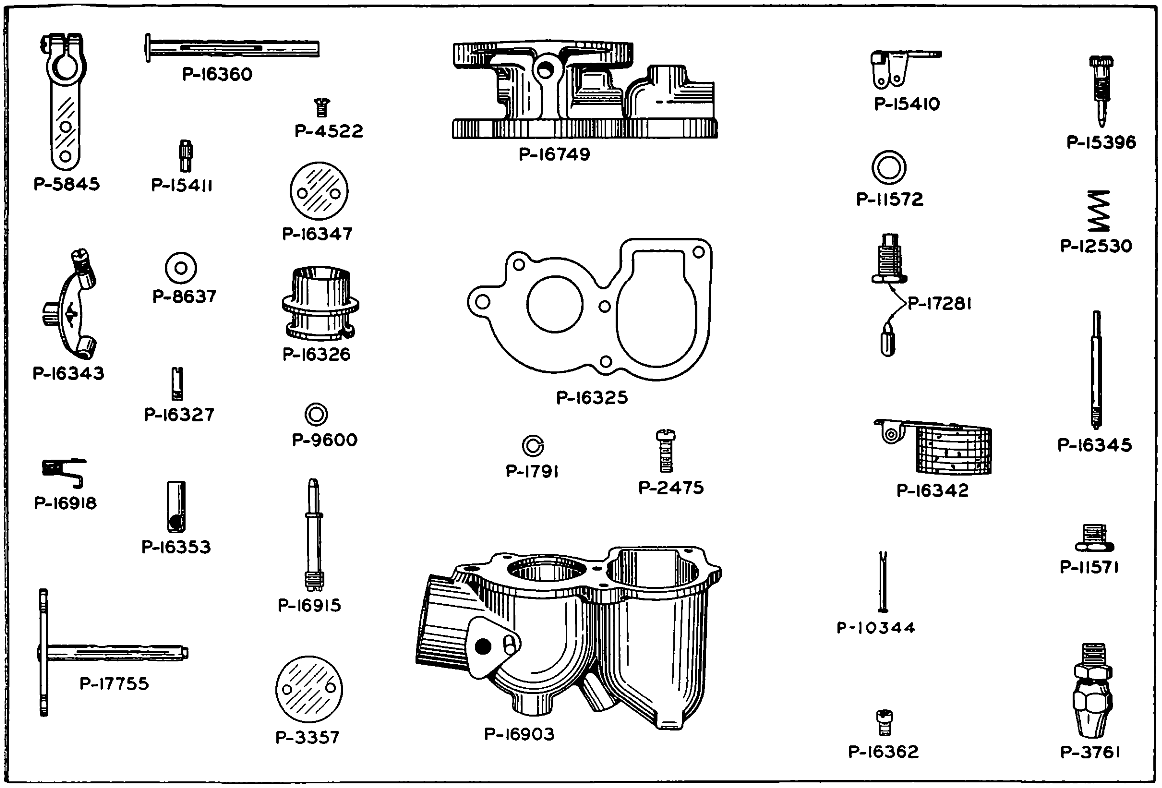
(Passenger Cars and Trucks)

DUESENBERG MODEL "J"
3¾" x 4¾" 8 Cyl
A-17083 UU-3 Carburetor (Code No 59-1)

Std Part No	Special Part	Used on Above Model Car
P-5436	P-5436	22° Thro Valve
P-8123	P-5856-L	Thro Lever
P-12422	P-12422-L	No 45 Idle Air Bleed
P-12464	P-18171	Pump Spring
P-12606	P-6668-L	Lock Washers
P-13395	P-13395-L	060 Meter Jet
P-15752	P-18182	Thro Valve Body with No 56 Top, 2 No 55 Lower Idle Holes
P-15753	P-18183	Main Body
P-15754	P-18184	Air Horn and Valve
P-15755	P-18187-L	Thro Stem
P-15758	P-18185	Float Cham Cover
P-15766	P-18188	1⅜ Venturi (Right)
	P-18189	1⅜' Venturi (Left)
P-15772	P-12356 L	Plug
P-15773	P-17623	Groove Pin
P-15750	P-18181	Air Horn (Casting)
None Shown	P-15491	No 65 Pump Disch
None Shown	P-15488	Screw
None Shown	P-15505	Gasket
None Shown	P-8387-L	Plug
None Shown	P-8223 L	Thro Lever and Screw

NOTE Exposure of lower idle holes 023 plus or minus 004 or (No 76 drill go and No 70 no go gauge)

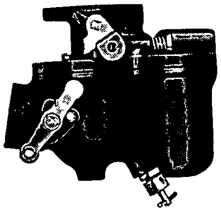
Note All external parts on this carburetor are polished nickel plate When ordering same, be sure to specify accordingly



UR-3/4

NO. A-14770

¾" CARB SAE



Notes and References: Car models having this carburetor with parts exceptions therefor are shown on back of this page

‡Indicates Sub-assembly part

PARTS LIST STROMBERG MODEL "UR-3/4" STANDARD CARBURETOR

Part No	Name
P-1791	Main Body Attaching Screw Lockwasher
P-2475	Main Body Attaching Screw
P-3357	Air Horn Valve
P-3761	Gas Union
‡P-3759	Gas Union Nipple
‡P-3760	Gas Union Nut
P-4522	Throttle Valve Screw
P-4522	Air Horn Valve Screw
P-5845	Throttle Lever with Screw
‡P-3199	Throttle Lever Clamp Screw
P-8637	Air Horn Lever Stem Washer
P-9600	Main Discharge Jet Gasket
P-10344	Float Fulcrum Pin
P-11571	Main Discharge Jet Plug
P-11572	Float Hanger Gasket
P-11572	Float Needle Valve Seat Gasket
P-11572	Main Discharge Jet Plug Gasket
P-12530	Idle Needle Valve Spring
P-15396	Idle Needle Valve
P-15410	Float Hanger

Part No.	Name	
P-15411	Float Hanger Pin	
P-16325	Main Body Gasket	
*P-16326	Venturi Tube	(VAR)
*P-16327	High Speed Bleeder	(VAR)
P-16342	Float with Lever (Comp)	
P-16343	Throttle Stop with Screws	
‡P-10594	Throttle Stop Set Screw	
‡P-15301	Throttle Stop Set Screw Spring	
P-16345	Idle Tube	
*P-16347	Throttle Valve	(VAR)
P-16353	Vent Tube	
P-16360	Throttle Stem (Comp)	
*P-16362	Main Metering Jet	(VAR)
P-16749	Throttle Valve Body	
P-16903	Main Body	
*P-16915	Main Discharge Jet	(VAR)
P-16918	Air Horn Lever Spring	
P-17281	Float Needle Valve and Seat	
P-17755	Air Horn Lever with Stem (Comp)	

J-4494 G UR-¾ Complete Gasket Set

*NOTE On parts marked (VAR) size must be specified when ordering

STANDARD SPECIFICATIONS

A-14770 UR¾ Carburetor (Code No. 1-3)

P-16326	¾' Venturi
P-16327	No 60 H S Bleeder
P-16345	Idle Tube, No 72 Feed Hole
P-16362	048" Meter Jet
P-16749	Thro Valve Body with No 72 Idle Hole Flange Tapped 5/16-18 on 2¼" CC
P-16915	No 52 Main Dis Jet

SPECIFICATIONS OF STANDARD EQUIPPED INDUSTRIAL ENGINES PARTS AND SETTINGS EXCEPTIONS MODEL UR-¾ STANDARD CARBURETOR

HERCULES MOTOR "IXB" (27624)

3¼"x4" 4 Cyl

A-16690 UR-¾ Carburetor (Code No 27-1)

Std. Part No	Special Part	Used on Above Model
P-5845	P-17757	Thro Lever
P-16749	P-17758	Thro Valve Body with No 72 Idle Holes, Fl Tapped 5/16-18' on 2¼ CC
P-16903	P-17760	Main Body

HERCULES MOTOR IXP, IXPU (27628-BS)

2½ x 4—4 Cylinder Engine

F-1899 UR-¾ Carburetor (Code No 27-2)

Std Part No	Special Parts	Used on Above Model
P-5845	P-17757	Throttle Lever
P-16326	P-16326	⅝ Venturi
P-16362	P-16362	040" Metering Jet
P-16749	P-17758	Throttle Valve Body with No 72 Idle holes Flange Tapped 5/16'—18 on 2¼ CC
P-16903	P-17760	Main Body

UNIVERSAL 1932 "AF" FLEXI-FOUR MOTOR

3"x3½" 4 Cyl

A-14240 UR-¾ Carburetor (Code No 39-1)

Std Part No	Special Part	Used on Above Model
P-4522	P-16717	Thro Valve Screws
P-5845	P-11424	Thro Lever and Screw
P-16347	P-8863	Thro Valve
P-16360	P-17827	Thro Stem
P-16362 P-11571	P-16355	Adj Meter Jet
P-16749	P-17892	Thro Valve Body with No 72 Idle Holes Fl Tapped 5/16-18 on 1 3/16' CC
P-16903	P-16234	Main Body
P-16915	P-16346	No 48 Main Disch Jet
P-17755	P-16357 P-14072	Air Horn Stem Air Horn Lever with Wire Connector
None Shown	P-13828	Bushing
None Shown	P-3316	Cap Screws

UNIVERSAL MOTOR (W 213)

A-17610 UR ¾ Carburetor

Std Part No	Special Part	Used on Above Model
P-5845	P-11424	Thro Lever and Screw
P-16343	P-19337	Thro Stop
P-16347	P-8863	Thro Valve
P-16360	P-17827	Thro Stem
P-16362	P-16355	Adj Needle
P-16749	P-17892	Thro Valve Body with No 72 Idle Dis Holes, Fl Tap 5/16-18 on 1 3/16" CC
P-16903	P-19340	Main Body
P-16915	P-16346	No 48 Main Disch Jet
P-17281	P-19866	Needle and Seat
P-17755	P-16357 P-19599	Air Horn Stem A H Lever and Wire Conn
None Shown	P-26	Pipe Plug
None Shown	P-13828	Bushing

EQUIPMENT

P-3316 Cap Screws

WAUKESHA MOTOR (51016)

A-17540 UR-¾ Carburetor (Code No 26-2)

Std Part No	Special Part	Used on Above Model
P-4522	P-16717	Thro Valve Screws
P-5845	P-8958	Thro Lever
P-16326	P-16326	11/16' Venturi
P-16327	P-16327	No 55 H S Bleeder
P-16343	P-13245	Thro Stop
P-16360	P-17827	Thro Stem
P-16362	P-16362	054" Meter Jet
P-17755	P-16914	Air Horn Lever and Stem

WAUKESHA MOTOR "FLJ" (51010)

3"x4" 4 Cyl

A-16020 UR-¾ Carburetor (Code No 26-1)

Std Part No	Special Part	Used on Above Model
P-5845	P-16913	Loose Thro Lever (Left)
P-16326	P-16326	11/16 Venturi
P-16327	P-16327	No 55 H S Bleeder
P-16343	P-16916	Thro Stop
P-16360	P-16917	Thro Stem
P-16362	P-16362	054' Meter Jet
P-16749	P-16902	Thro Valve Body with No 72 Idle Holes, Fl Tapped 5/16-18" on 2¼"CC
P-17755	P-16914	Air Horn Lever and Stem
None Shown	P-19304	Loose Thro Lever (Right)
None Shown	P-20648	Spring
None Shown	P-16487	Loose Lever Stop
None Shown	P-16916	Pin (Thro Stop)

WAUKESHA MOTOR "FL"—"FK" (51025)

3 -3¼"x4 —4 Cyl

F-3011 UR-¾ Carburetor (Code No 26-3)

Std Part No	Special Part	Used on Above Model
P-5845	P-16913	Loose Thro Lever (Left)
P-16326	P-16326	11/16 Venturi
P-16327	P-16327	No 55 H S Bleeder
P-16343	P-16916	Thro Stop
P-16360	P-16917	Thro Stem
P-16362	P-16362	064 Auxiliary Metering Jet
P-16749	P-16902	Thro Valve Body with No 72 Idle Holes Fl Tapped 5/16-18' on 2¼ CC
P-17755	P-16914	Air Horn Lever and Stem
None Shown	P-19304	Loose Thro Lever (Right)
None Shown	P-20648	Spring
None Shown	P-16487	Loose Lever Stop
None Shown	P-16916	Pin (Thro Stop)
None Shown	P-16355	Adjustable Metering Jet

WISCONSIN MOTOR "AF" AND "AG" 1932 (L-16-2)

3¼"x4" 1 Cyl and 3½"x4 1 Cyl

A-17120 UR-¾ Carburetor (Code No 25-3B)

Std Part No	Special Part	Used on Above Model	
P-3357	P-18204	Air Horn Valve	
P-5845	P-22890	Thro Lever and Stop	
P-8637	P-12400	Washer	
P-16345	P-18339	Idle Tube, No 68 Feed (1 No 65 Bleed Hole)	
P-16360	P-18196	Thro Stem	
P-16362 P-11571	P-18921	Adj Meter Jet	
P-16749	P-18191	Thro Valve Body with No 66 Idle Holes Fl Tapped ¼-20 on 1 3/16" CC	
P-16903	P-18190	Main Body	
P-16915	P-18340	No 48 Main Disch Jet	
P-16918	P-18341	Spring (Redesigned)	(A)
P-17281	P-21371	Float Needle Valve and Seat	(B)
P-17755	P-18202	Air Horn Lever and Stem	
None Shown	P-17187	Pin	
None Shown	P-6249	Fil Hd Screw	
None Shown	P-9182	Pin	
None Shown	P-18194	Clip	
None Shown	P-18206	Lever	
None Shown	P-2290	Hex Nut	

WISCONSIN MOTOR "AD" 1932 (L-16)

2¾"x3¼" 1 Cyl

A-17100 UR-¾ Carburetor (Code No 25-1B)

Std Part No	Special Parts	Used on Above Model Car	
P-3357	P-18204	Air Horn Valve	
P-5845	P-22890	Thro Lever and Stop	
P-8637	P-12400	Washer	
P-16326	P-16326	9/16 Venturi	
P-16345	P-18339	Idle Tube No 68 Feed (1 No 65 Bleed Hole)	
P-16360	P-18196	Thro Stem	
P-16362 P-11571	P-18921	Adj Meter Jet	
P-16749	P-18191	Thro Valve Body with No 66 Idle Holes Fl Tapped ¼-20 on 1 3/16' CC	
P-16903	P-18190	Main Body	
P 16915	P-18340	No 48 Main Disch Jet	
P-16918	P 18341	Spring (A)	
P-17281	P-21371	Float Needle Valve and Seat	(B)
P-17755	P-18202	Air Horn Lever and Stem	
None Shown	P-17187	Pin	
None Shown	P-6249	Fil Hd Screw	
None Shown	P-9182	Pin	
None Shown	P-18194	Clip	
None Shown	P-18206	Lever	
None Shown	P 2290	Hex Nut	

WISCONSIN MOTOR "AE" 1932 (L-16-1)

3"x3¼" 1 Cyl

A-17110 UR ¾ Carburetor (Code No 25-2B)

Std Part No	Special Parts	Used on Above Model Car	
P-3357	P-18204	Air Horn Valve	
P-5845	P-22890	Thro Lever and Stop	
P-8637	P-12400	Washer	
P 16326	P-16326	⅝" Venturi	
P-16345	P-18339	Idle Tube, No 68 Feed (1 No 65 Bleed Hole)	
P-16360	P-18196	Thro Stem	
P-16362 P-11571	P-18921	Adj Meter Jet	
P-16749	P-18191	Thro Valve Body with No 66 Idle Holes Fl Tapped ¼-20 on 1 3/16" CC	
P 16903	P-18190	Main Body	
P 16915	P-18340	No 48 Main Disch Jet	
P-16918	P-18341	Spring (A)	
P-17281	P-21371	Float Needle Valve and Seat	(B)
P-17755	P-18202	Air Horn Lever and Stem	
None Shown	P-17187	Pin	
None Shown	P-6249	Fil Hd Screw	
None Shown	P-9182	Pin	
None Shown	P-18194	Clip	
None Shown	P-18206	Lever	
None Shown	P-2290	Hex Nut	

SPECIFICATIONS OF STANDARD EQUIPPED INDUSTRIAL ENGINES

PARTS AND SETTINGS EXCEPTIONS MODEL UR-¾ STANDARD CARBURETOR

WISCONSIN MOTOR (L-16-5)

2⅞"x3¼"—4 Cylinder Own "AC-4" Eng.

A-17740 UR-¾ Carburetor (Code No 25-5A)

Std Part No.	Special Parts	Used on Above Model Car
P-3357	P-18204	Choke Valve
P-5845	P-22912	Throttle Lever and Stop on Right Side
P-8637	P-12400	Choke Washer
P-16326	P-16326	⅝ Venturi
P-16345	P-18339	Idle Tube
P-16360	P-18196	Throttle Stem
P-16362	P-18921	Adjustable Metering Jet
P-16749	P-18191	Throttle Valve Body With No 72 Idle Hole and Flange Tapped ¼-20 on 1-13/16CC
P-16903	P-18190	Main Body
P-16915	P-18340	No 48 Main Discharge Jet
P-16918	P-18341	Choke Return Spring
P-17281	P-21371	Fl Needle Valve & Seat
P-17755	P-18202	Choke Lever With Stem
None Shown	P-17187	Throttle Stop Pin
None Shown	P-2290	Nut
None Shown	P-18194	Choke Clip

WISCONSIN MOTOR 'AC-4" (L-16-15)

2⅞" x 3¼"—4 Cyl Engine

A-17770 UR ¾ Carburetor (Code No 25-70)

Std Part No	Special Parts	Used on Above Model Car
P-3357	P-18204	Air Horn Valve
P-5845	P-22890	Thro Lever and Stop
P-8637	P-6986	Washer
P-16326	P-16326	⅞ Venturi
P-16345	P-18339	Idle Tube No 68 Feed (1 No 65 Bleed Hole)
P-16360	P-18196	Thro Stem
P-16749	P-18191	Thro Valve Body with No 72 Idle Holes Fl Tapped ¼-20 on $1\frac{13}{16}$" CC
P-16903	P-18190	Main Body
P-16915	P-18340	No 48 Main Disch Jet
P-16918	P-18207	Spring
P-17755	P-18202	Air Horn Lever and Stem
None-Shown	P-17187	Pin
None Shown	P-6249	Fil Hd Screw
None Shown	P-9182	Pin
None Shown	P-18194	Clip
None Shown	P-18206	Lever
None-Shown	P-2290	Hex Nut

WISCONSIN MOTOR (L-16-17)

2⅞ x 3¼"—4 Cyl Own "AC-4" Eng

F-4320 UR-¾ Carburetor (Code No 25-72)

Std Part No	Special Parts	Used on Above Model
P-3357	P-18204	Choke Valve
P-5845	P-21091	Throttle Lever on Right Side
P-8637	P-12400	Choke Washer
P-16326	P-16326	½' Venturi
P-16343	P-18199	Throttle Stop
P-16345	P-18339	Idle Tube
P-16360	P-18196	Throttle Stem
P-16362	P-16362	034 Metering Jet
P-16749	P-18191	Throttle Valve Body with No 72 idle Hole and Flange Tapped ¼-20 on $1\frac{13}{16}$ CC
P-16903	P-18190	Main Body
P-16915	P-18340	No 48 Main Discharge Jet
P-16918	P-18341	Choke Return Spring
P-17281	P-21371	Fl Needle Valve & Seat
P-17755	P-18202	Choke Lever with Stem
None Shown	P-17187	Throttle Stop Pin
None Shown	P-2290	Nut
None Shown	P-18194	Choke Clip

WISCONSIN MOTOR "AES" (L-16-13)

3' x 3¼"—1 Cyl

F-3854 UR-¾ Carburetor (Code No 25-56)

Std Part No	Special Parts	Used on Above Model
P-3357	P-18204	Air Horn Valve
P-5845	P-22890	Throttle Lever and Stop
P-8637	P-12400	Washer
P-16326	P-16326	$\frac{11}{16}$' Venturi
P-16345	P-18339	Idle Tube No 68 Feed (1 No 65 Bleed Hole)
P-16360	P-18196	Thro Stem
P-16362 P-11571	P-18921	Adj Meter Jet
P-16749	P-18191	Thro Valve Body with No 66 Idle Holes Fl Tapped ¼-20 on $1\frac{13}{16}$" CC
P-16903	P-18190	Main Body
P-16915	P-18340	No 48 Main Disch Jet
P-16918	P-18341	Spring
P-17281	P-21371	Float Needle Valve and Seat
P-17755	P-18202	Air Horn Lever and Stem
None Shown	P-17187	Pin
None Shown	P-6249	Fil Hd Screw
None Shown	P-9182	Pin
None Shown	P-18194	Clip
None Shown	P-18206	Lever
None Shown	P-2290	Hex Nut

SPECIFICATIONS OF STANDARD EQUIPPED TRUCKS

PARTS AND SETTINGS EXCEPTIONS MODEL UR-¾ STANDARD CARBURETOR

STUTZ MOTOR 1935 PACKAGE CAR (40013)

3"x4"—4 Cylinder Herc. 1XA Eng.
A-17700 UR-¾ Carburetor (Code No. 56-6)

Std. Part No.	Special Parts Used on Above Model Car	
P-3357	P-21904	Choke Lever on Right Side
P-5845	P-21907	Throttle Lever on Right Side
P-16326	P-16326	11/16" Venturi
P-16343	P-21999	Throttle Stop
P-16360	P-21909	Throttle Stem
P-16362	P-16362	.045" Metering Jet
P-16749	P-21910	Throttle Valve Body With No 72 Idle Hole & Flange Tapped 5/16-18 or 2¼"CC
P-16903	P-21903	Main Body
P-17281	P-21371	Fl. Needle Valve and Seat
P-17755	P-5815	Choke Stem
	P-21905	Choke Lever on Right Side
None Shown	P-17187	Choke Valve Stop Pin
None Shown	P-17081	Choke Stem Collar
None Shown	P-16161	Choke Stem Collar Set Screw

(Resale Equipment)

PARTS AND SETTINGS EXCEPTIONS MODEL UR-¾ STANDARD CARBURETOR

AMERICAN AUSTIN MODEL "BANTAM"

2.2"x3"—4 Cylinder Continental Engine
J-4169 UR-¾ Carburetor (Code No. 73-1)

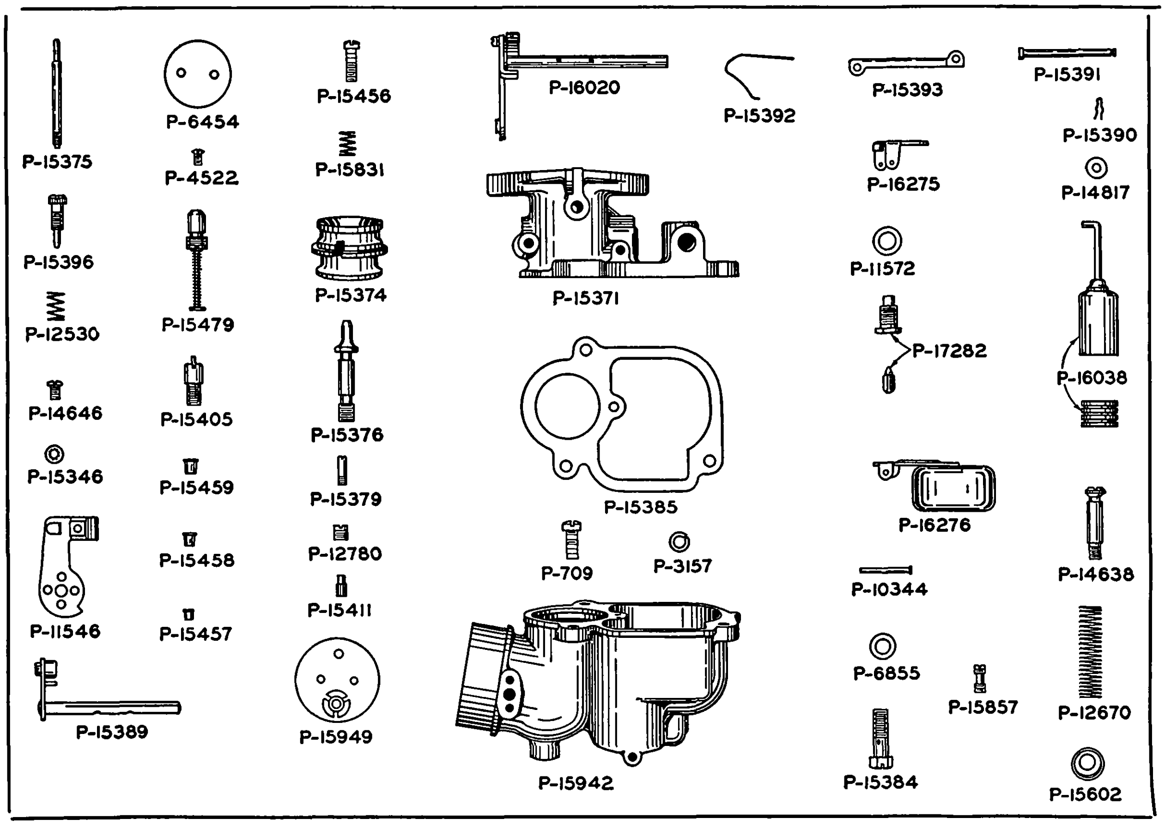
Std. Part No.	Special Part No. Used on Above Model Car	
P-3761	P-13466	Union Elbow
P-5845	P-12695	Throttle Lever (3/16" on 1" CC.) on Left Side
P-15396	P-16738	Idle Needle Valve
P-16343	P-13245	Throttle Lever Stop
P-16362	P-16355	Adjustable Main Metering Jet
P-16479	P-16737	Throttle Valve Body, No. 60-72 Idle Holes, Fl. Tapped 5/16-18" on 1 3/16" CC.
P-16903	P-16740	Main Body
P-16915	P-16739	No. 48 Main Discharge Jet
P-16918	P-16736	Choke Lever Torsion Spring
P-17755	P-16741	Choke Lever (On Right Side)

NOTE: Throttle Valve Location, flush plus or minus .004.

CLARK

3⅛"x4¼"—4 Cylinder Le Roi 2-C Eng.
J-4286 UR¾ Carburetor (Code No. 121-1)

Std. Part No.	Special Parts Used on Above Model Car	
P-3761	P-3278	Union
P-16326	P-16326	11/16" Venturi
P-16327	P-16327	No. 55 High Speed Bleeder
P-16343	P-19337	Throttle Stop
		EQUIPMENT
P-3735	Choke Control (1¾" Clamp)	

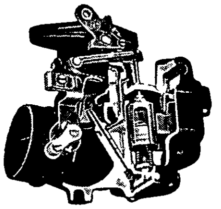


OLD STYLE

(Obsolete)

URO-1
N . A-14771
SPEC 1⅛" CARB
1' SAE FLANGE

UR-2 N . A-14772
1¼ CARB SAE



Notes and References.

Parts UR-2 illustrated corresponding URO-1 parts shown in listing below

Car models having these carburetors with parts exceptions therefor are shown on back of this page

‡Indicates Sub assembly part

PARTS LISTS STROMBERG MODEL "UR" STANDARD CARBURETORS

URO 1 Part No	UR 2 Part No	Name	
P-709	P-709	Main Body Attaching Screws	
P-3157	P-3157	Main Body Attch Screws L-Washers	
P-3222	P-3222	Elbow Union	
‡P-3220	‡P-3220	Union Nut	
‡P-3221	‡P-3221	Union Elbow	
P-3316	P-3324	Carb Attach Cap Screws	
P-4522	P-4522	Choke Valve Screws	
P-4522	P-4522	Throttle Valve Screw	
*P14367	*P-6454	Throttle Valve	(VAR)
P-6855	P-6855	Main Discharge Jet Gasket	
P-6855	P-6855	Metering Jet Gasket	
P-10344	P-10344	Float Fulcrum Pin	
P-11546	P-11546	Choke Tube Hldr with Screw (Comp)	
‡P-11561	‡P-11561	Choke Tube Clamp	
‡P-284	‡P-284	Choke Tube Clamp Screw	
‡P-8806	‡P-8806	Choke Tube Clamp Screw Nut	
P-11572	P-11572	Float Hanger Gasket	
P-11572	P-11572	Float Needle Valve Seat Gasket	
P-12530	P-12530	Idling Needle Valve Spring	
P-12670	P-12670	Pump Piston Spring	
P-12780	P-12780	Idling Discharge Channel Plug	
P-14638	P-14638	Pump Piston Valve	
P-14646	P-14646	Choke Tube Holder Attach Screws	
P-14817	P-14817	Pump Piston Link Washer	
P-15346	P-15346	Choke Tube Holder Attach Screws Lockwasher	
*P-15460	*P-15371	Throttle Valve Body	(VAR)
*P-15562	*P-15374	Large Venturi Tube	(VAR)
P-15375	P-15375	Idle Tube	
*P-15376	*P-15376	Main Discharge Jet	(VAR)
*P-15379	*P-15379	High Speed Bleeder	(VAR)
*P-12802	*P-15384	Metering Jet	(VAR)
P-15385	P-15385	Main Body Gasket	

URO 1 Part No	UR 2 Part No	Name	
P-15389	P-15389	Choke Lever with Stem (Complete)	
‡P-12867	‡P-12867	Choke Wire Clamp Screw	
P-15390	P-15390	Pump Fulcrum Pin Cotter Pin	
P-15391	P-15391	Pump Fulcrum Pin	
P-15392	P-15392	Pump Lever Spring	
P-15393	P-15393	Pump Lever	
P-15396	P-15396	Idling Needle Valve	
*P-15405	*P-15405	By-Pass Jet	(VAR)
P-15411	P-15411	Float Hanger Pin	
P-15456	P-15456	Throttle Stop Screw	
P-15457	P-15457	High Speed Bleeder Channel Plug	
P-15458	P-15458	Economizer Channel Plug	
P-15459	P-15459	Idle Channel Plugs	
P-15479	P-15479	Vacuum Economizer (Complete)	
P-15602	P-15602	Pump Piston Spring Washer	
P-15831	P-15831	Throttle Stop Screw Spring	
P-15870	P-15857	Pump Valve Gas Reducer	
P-15942	P-15942	Main Body	
P-15378	P-15949	Choke Valve (Complete)	
‡P-15377	‡P-15947	Choke Valve	
‡P-15261	‡P-15261	Choke Valve Plate	
‡P-15263	‡P-15263	Choke Valve Plate Spring	
‡P-15845	‡P-15845	Choke Valve Washer	
‡P-15266	‡P-15266	Choke Valve Bushing	
‡P-8344	‡P-8344	Choke Valve Open Washer	
‡P-15264	‡P-15264	Choke Valve Pin	
P-15951	P-16020	Throttle Lever with Stem	
‡P-506	‡P-506	Pump Adj Screw	
‡P-1693	‡P-1693	Pump Adj Screw Lock Washer	
P-16038	P-16038	Pump Piston and Sleeve (Complete)	
P-16275	P-16275	Float Hanger	
P-16276	P-16276	Float with Lever	
P-17282	P-17282	Float Needle Valve and Seat	

J 4223-G	URO-1	Complete Gasket Set
J-4223-G	UR-2	Complete Gasket Set

*NOTE On parts marked (VAR.) size must be specified when ordering

STANDARD SPECIFICATIONS

A-14771 URO-1 Carburetor

P-12802	Adj. Metering Jet
P-14367	Throttle Valve, 20°
P-15375	Idle Tube, No. 68 Feed, No. 62 Top Hole
P-15376	No. 32 Main Dis. Jet
P-15379	No. 65 H. S. Bleeder
P-15405	.028" By Pass Jet
P-15460	Thro. Valve Body with No. 56-70 Idle Holes, Flange 5/16-18"
P-15562	15/16" Venturi
P-15870	No. 68 Pump Reducer

A-14772 UR-2 Carburetor

P-6454	Throttle Valve, 20°
P-15371	Thro. Valve Body with No. 56-70 Idle Holes, Flange 3/8-16"
P-15374	1" Venturi
P-15375	Idle Tube, No. 68 Feed, No. 62 Top Hole
P-15376	No. 32 Main Disch. Jet
P-15379	No. 65 H. S. Bleeder
P-15384	.054" Meter. Jet
P-15405	.036" By Pass Jet
P-15857	No. 70 Pump Reducer

STANDARD SETTINGS FOR URO-1 AND UR-2 CARBURETORS

Throttle Valve Location: Lower lip of throttle valve to be flush plus or minus .004 with top of lower idle holes.

Pump Travel: Maximum (Bottom hole in pump cam).

Pump Capacity: URO-1—8 to 10 CC per 10 strokes. UR-2—10 to 14 CC per 10 strokes.

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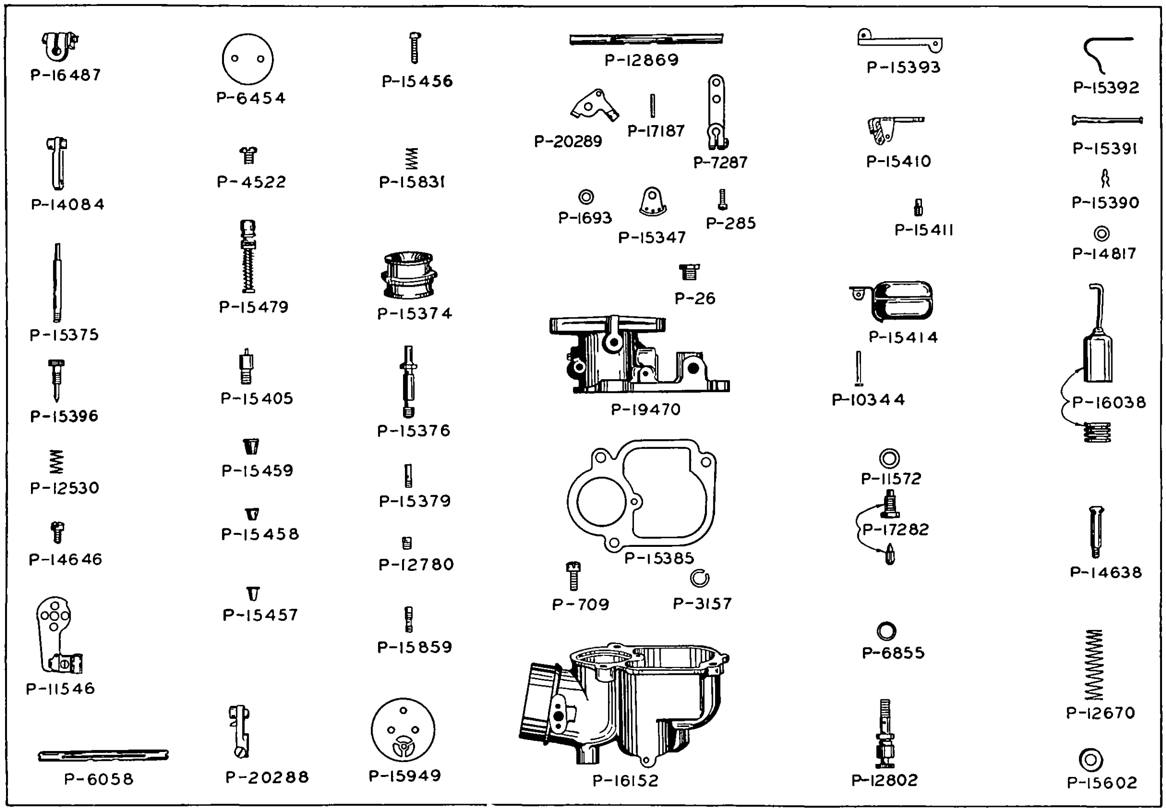

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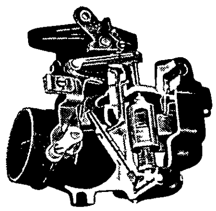


Notes and References:

Parts for UR-2 Illustrated, corresponding URO-1 and URO-2 parts shown in listing below

Car models having this carburetor with parts exceptions therefor are shown on back of this page

‡Indicates Sub-assembly part

A-14771 URO-1
SPEC 1⅛" CARB
1" SAE TAPPED FLANGE

A-14772 UR-2
1¼" CARB
1¼" SAE TAPPED FLANGE

A-18072 URO-2
SPEC 1⅜" CARB
1½" SAE TAPPED FLANGE

A-17951 URO-1
SPEC 1⅛" CARB
1 SAE DRILLED FLANGE

A-17952 UR-2
1¼" CARB
1¼" SAE DRILLED FLANGE

A-18082 URO-2
SPEC 1⅜" CARB
1½" SAE DRILLED FLANGE

PARTS LISTS STROMBERG MODEL "UR" STANDARD CARBURETORS

URO-1 Part No.	UR-2 Part No	URO-2 Part No	Name
P-26	P-26	P-26	Pipe Plug
P-285	P-285	P-285	Pump Cam Fill Head Screw
P-709	P-709	P-709	Main Body Attaching Screw
P-1693	P-1693	P-1693	Pump Cam Scr Lockwasher
P-3157	P-3157	P-3157	Main Body At Scr Lkwshr
P-16717	P-4522	P-4522	Throttle Valve Screw
P-4522	P-4522	P-4522	Choke Valve Screw
P-6058	P-6058	P-6058	Air Horn Stem
*P-14367	P-6454	P-14428	Throttle Valve (VAR)
P-6855	P-6855	P-6855	Main Disch Jet Gasket
P-6855	P-6855	P-6855	Adj Metering Jet Gasket
P-7287	P-7287	P-7287	Throttle Lever
‡P-46	‡P-46	‡P-46	Thro Lever Clamp Screw
P-10344	P-10344	P-10344	Float Fulcrum Pin
P-11546	P-11546	P-11546	Choke Tube Holder
‡P-11562	‡P-11561	‡P-11561	Choke Tube Clamp
‡P-284	‡P-284	‡P-284	Choke Tube Clamp Screw
‡P-8806	‡P-8806	‡P-8806	Choke Tube Clamp Scr Nut
P-11572	P-11572	P-11572	Float Hanger Gasket
P-11572	P-11572	P-11572	Float Ndl Valve Seat Gasket
P-12530	P-12530	P-12530	Idle Needle Valve Spring
P-12670	P-12670	P-12670	Pump Piston Helical Spring
P-12780	P-12780	P-12780	Idling Disch Channel Plug
P-12802	P-12802	P-12802	Adjustable Metering Jet
‡P-12803	‡P-12803	‡P-12803	Adj Met Jet Packing Nut
‡P-1503	‡P-1503	‡P-1503	Adj Met Jet Packing
P-17702	P-12869	P-20862	Throttle Stem
P-14084	P-14084	P-14084	Throttle Loose Lever
‡P-9270	‡P-9270	‡P-9270	Loose Lvr Wire Conn Scr
P-14638	P-14638	P-14638	Pump Piston Valve
P-14646	P-14646	P-14646	Choke Tube Hold At Screw
P-14817	P-14817	P-14817	Pump Piston Link Washer
P-15347	P-15347	P-15347	Pump Lever Cam
*P-15562	P-15374	P-17115	Venturi Tube (VAR)
P-15375	P-15375	P-15375	Idle Tube
*P-15376	P-15376	P-15376	Main Discharge Jet (VAR)
*P-15379	P-15379	P-15379	High Speed Bleeder (VAR)
P-15385	P-15385	P-17118	Main Body Gasket

URO-1 Part No.	UR-2 Part No.	URO-2 Part No	Name
P-15390	P-15390	P-15390	Pump Fulcrum Cotter Pin
P-15391	P-15391	P-15391	Pump Fulcrum Pin
P-15392	P-15392	P-15392	Pump Lever Spring
P-15393	P-15393	P-15393	Pump Lever
P-15396	P-15396	P-15396	Idle Needle Valve
*P-15405	P-15405	P-15405	By Pass Jet (VAR.)
P-15410	P-15410	P-15410	Float Hanger
P-15411	P-15411	P-15411	Float Hanger Pin
P-15414	P-15414	P-15414	Float with Lever
P-15456	P-15456	P-15456	Throttle Stop Screw
P-15457	P-15457	P-15457	High Speed Bleeder Channel Drive Plug (No 6)
P-15458	P-15458	P-15458	Econ Chan Dr Plug(No 10)
P-15459	P-15459	P-15459	Idle Chan Dr Plug (¼")
P-15479	P-15479	P-15479	Vacuum Economizer Comp
P-15602	P-15602	P-15602	Pump Piston Spring Washer
P-15831	P-15831	P-15831	Throttle Stop Spring
*P-15857	P-15859	P-17144	Gas Reducer (VAR)
P-15839	P-15949	P-15949	Choke Valve Assembly
‡P-15377	‡P-15947	‡P-15947	Choke Valve
‡P-15261	‡P-15261	‡P-15261	Choke Valve Plate
‡P-15838	‡P-15263	‡P-15263	Choke Valve Plate Spring
‡P-15262	‡P-15845	‡P-15845	Choke Valve Washer
‡P-15266	‡P-15266	‡P-15266	Choke Valve Bushing
‡P-8344	‡P-8344	‡P-8344	Choke Valve Open Washer
‡P-15264	‡P-15264	‡P-15264	Choke Valve Pin
P-16038	P-16038	P-16038	Pump Piston & Sleeve Assy
P-16152	P-16152	P-16152	Main Body
P-16487	P-16487	P-16487	Loose Lever Stop
‡P-9025	‡P-9025	‡P-9025	Loose Lever Stop Screw
‡P-4517	‡P-4517	‡P-4517	Loose Lever Stop Nut
P-17187	P-17187	P-17187	Throttle Stop Pin
P-17282	P-17282	P-17282	Float Ndl Vlve & Seat Assy
*P-17591	P-19470	P-20863	Throttle Valve Body (VAR.)
P-20288	P-20288	P-20288	Choke Lever
‡P-46	‡P-46	‡P-46	Choke Lever Clamp Screw
‡P-9270	‡P-9270	‡P-9270	Choke Lvr Wire Conn Scr
P-20289	P-20289	P-20289	Throttle Stop

J-4223-G	URO-1	Complete Gasket Set
J-4223-G	UR-2	Complete Gasket Set
J-4224-G	URO-2	Complete Gasket Set

*NOTE On parts marked (VAR) size must be specified when ordering

STANDARD SPECIFICATIONS

A-14771, URO-1 Carburetor (Code No 14)
A-17951, URO-1 Carburetor

P-12802	Adjustable Metering Jet
P-14367	(20°) Throttle Valve
P-15375	Idle Tube No 58 Feed No 62 Top Holes
P-15376	No 32 Main Discharge Jet
P-15379	No 65 High Speed Bleeder
P-15405	030 By-Pass Jet
P-15562	31/32′ Venturi
P-15857	No 70 Pump Gas Reducer
P-17591	Thro Valve Body No 56-70 Idle Holes, Flange Tapped 5⁄16-18 (A-17951 Flange Drilled 11/32)

A-14772, UR-2 Carburetor (Code No 1-7)
A-17952, UR-2 Carburetor (Code No 1-39)

P-6454	(20°) Throttle Valve
P-12802	Adjustable Metering Jet
P-15374	1′ Venturi
P-15375	Idle Tube, No 68 Feed, No 62 Top Holes
P-15376	No 32 Main Discharge Jet
P-15379	No 65 High Speed Bleeder
P-15405	036 By-Pass Jet
P-15859	No 66 Pump Gas Reducer
P-19470	Thro Valve Body No 56 70 Idle Holes Flange Tapped ⅜-16 (A-17952 Flange Drilled 13-32)

A-18072, URO-2 Carburetor (Code No 1-37)
A-18082, URO-2 Carburetor (Code No 1-38)

P-12802	Adjustable Metering Jet
P-14428	(20°) Throttle Valve
P-15375	Idle Tube No 68 Feed No 63 Top Holes
P-15376	No 26 Main Discharge Jet
P-15379	No 70 High Speed Bleeder
P-15405	030′ By-Pass Jet
P-17115	1⅛" Venturi
P-17144	No 59 Pump Gas Reducer
P-20863	Thro Valve Body, No 56-70 Idle Dis Holes, Flange Tapped ⅜-16′ (A-18082 Flange Drilled 13/32")

STANDARD SETTINGS FOR URO-1-2 AND UR-2 CARBURETORS

Throttle Valve Location Lower lip of throttle valve to be flush plus or minus 004 with top of lower idle hole

Pump Travel Maximum (Bottom hole in pump cam)

Pump Capacity URO 1—8 to 10 CC per 10 strokes UR 2 and URO-2 10 to 14 CC per 10 strokes

PARTS AND SETTINGS EXCEPTIONS MODELS URO-1-2 AND UR-2 STANDARD CARBURETORS
(Passenger Cars and Trucks)

AUBURN 1932 MODEL "8-100" (J-10010))
3"x4¾"—8 Cylinder Engine
A-16192 URO-2 Carburetor (Code No 17-8)

Std Part No	Special Part No	Used on Above Model Car
P-4522	P-16717	Throttle Valve Screw
P-6058 P-10288	P-17114	Choke Lever and Stem
P-285 P-1693 P-7287 P-17187 P-20289 P-20862	P 17109	Throttle Lever and Stem on Left Side
P-11546	P-11969	Choke Tube Holder
P-12802	P-12512	063′ Metering Jet
P-14084	P-15561	Throttle Loose Lever on Right Side
P-14428	P-17117	Throttle Valve with Screw
P-15949	P-15378	Choke Valve
P-16152	P-15942	Main Body
P-17144	P-17144	No 59 Gas Reducer
P-20863	P-17112	Throttle Valve Body No 54-66 Idle Holes Flange Tapped ⅜-16
None Shown	P-6385	Flange Stud
None Shown	P-17116	Idle Discharge Plug
None Shown	P-17147	Idle Discharge Plug Nut
None Shown	P-17146	Throttle Stem Block
None Shown	P-17119	Throttle Link (Upper)
None Shown	P-17120	Throttle Link (Lower)
None Shown	P-16436	Throttle Link Fulcrum Screw
None Shown	P-11724	Throttle Link Fillister Head Screw
None Shown	P-14813	Throttle Link Fill Head Screw Washer
None Shown	P-15346	Tube Holder Attach Screw Lockwasher
None Shown	P-9284	Hexagon Nut

BROCKWAY MODEL "80"
3⅜"x4"—6 Cylinder (Cont 25-A & 25-B Eng)
F-3183 UR-2 Carburetor (Code No 49-3)

Std Part No	Special Part No	Used on Above Model Truck
P-6058	P-11203	Choke Stem
P-7287	P-13237	Throttle Lever on Right Side
P-11546	P-12680	Choke Tube Holder
P-12802	P-15384	053 Main Metering Jet
P-15859	P-15870	No 68 Pump Discharge Nozzle
P-17282	P-17281	Float Needle Valve and Seat Assembly
P-19470	P-19470	Throttle Valve Body No 56 68 Idle Holes Flange Tapped ⅜-16
P-20288	P-14072	Choke Lever
P-20289	P-13445	Pump Economizer
P-20289	P-13245	Throttle Stop
None Shown	P-15935	Pump Sleeve
None Shown	P-20925	Studs (Flange)
None Shown	P-14073	Choke Stem Bushing

CHRYSLER 1931 MODEL "C M" (320914)
3¼"x4⅜"—6 Cylinder
A-14942 UR-2 Carburetor (Code No 4-20)

Std Part No	Special Part No	Used on Above Model Car
P-285 P-1693 P-7287 P-12869 P-17187 P-20289	P-15951	Throttle Lever and Stem on Left Side
P-6058 P-20288	P-15941	Choke Lever and Stem
P-11546	P-12680	Choke Tube Holder
P-12802	P-15384	055 Main Metering Jet
P-15405	P-15405	038 By-Pass Jet
P-15410	P-16275	Float Hanger
P-15414	P-16276	Float with Lever
P-15479	P-15960	Vacuum Economizer (Complete)
P-16152	P-15942	Main Body
P-19470	P-15371	Throttle Valve Body, 54-66 Idle Holes, Flange Tapped ⅜-16
None Shown	P-15935	Pump Sleeve
None Shown	P-15346	Tube Holder Attach Screw Lockwasher

H H FRANKLIN 1932-33 MODEL "16 & 18" (58486)
3½"x4¾ —6 Cylinder Engine
A-17032 URO-2 Carburetor (Code No 20-5)

Std Part No	Special Part No	Used on Above Model Car
P-285 P-1693 P-7287 P-17187 P-20289 P-20862	P-18400	Throttle Lever and Stem on Left Side
P-4522	P-16717	Throttle Valve Screw
P-6058 P-20288	P-18406	Choke Lever and Stem
P-11546	P-12837	Choke Tube Holder
P-12802	P-12512	064 Main Metering Jet
P-14084	P-5845	Throttle Lever Stop
P-14646	P-15779	Choke Tube Holder Attach Screw
P-15376	P-15376	No 24 Main Discharge Jet
P-15410	P-16275	Float Hanger
P-15414	P-16276	Float with Lever
P-15949	P-18407	Choke Valve
P-16152	P-15372	Main Body
P-17115	P-19871	1⅛ Venturi
P-17144	P-15749	No 60 Gas Reducer
P-20863	P-18403	Throttle Valve Body No 54-66 Idle Holes Flange Tapped ⅜-16
None Shown	P-19715	Venturi Spring
None Shown	P-17380	Pump Packing
None Shown	P-14834	Pump Spring Clip
None Shown	P-9802	Pump Spring Clip Drive Screw
None Shown	P 14737	Flange Stud
None Shown	P-11083	Flange Stud Nut
None Shown	P-11084	Flange Stud Washer
None Shown	P-18404	Float Chamber Vent Tube
None Shown	P-17337	Float Chamber Vent Tube
None Shown	P-17337	Float Chamber Vent Tube Bushing
None Shown	P-15346	Tube Holder Screw Lockwasher
None Shown	P-13244	Throttle Lever Stop
None Shown	P-15280	Choke Stem Spring

PARTS AND SETTINGS EXCEPTIONS MODELS URO-1-2 AND UR-2 STANDARD CARBURETORS (Continued)
(Passenger Cars and Trucks)

GRAHAM 1934 MODEL "67" (80195)
3⅛"x4' —8 Cylinder
A-17742 URO-2 Carburetor (Code No. 9-1)

Std Part No	Special Part No	Used on Above Model Car
P-6058 P-20288	P-19786	Choke Lever and Stem
P-7287 P-20289 P-20862	P-19516	Throttle Lever and Stem on Left Side
P-11546	P-19514	Choke Tube Holder
P-12802	P-15384	061 Metering Jet
P-14084	P-19594	Throttle Loose Lever
P-15376	P-19513	No 30 Main Discharge Jet
P-15379	P-15379	No 56 H S Bleeder
P-15393	P-19531	Pump Lever
P-15405	P-15405	056 By-Pass Jet
P-15949	P-19561	Choke Valve
P-16152	P-19562	Main Body
P-17115	P-17115	1¼" Venturi
P-17144	P-19515	No 56 Gas Reducer
P-20863	P-19512	Throttle Valve Body No 57-70 Idle Holes Flange Drilled 13/32'
None Shown	P-19831	Union Elbow
None Shown	P-17119	Throttle Link (Upper)
None Shown	P-17120	Throttle Link (Lower)
None Shown	P-16436	Throttle Link Fulcrum Screw
None Shown	P-11724	Throttle Link Fill Head Screw
None Shown	P-14813	Throttle Link Washer
None Shown	P-13453	Throttle Link Screw
None Shown	P-15346	Tube Holder Screw Lockwasher
None Shown	P-9284	Hexagon Nut

NOTE When choke valve is closed throttle valve should crack open No 58 drill go gauge No 54 drill no go gauge

NOTE Pump Capacity 13 to 17 CC per 10 strokes

ROCKNE 1932 MODELS "65" (510619)
3⅛"x4⅛"—6 Cylinder
A-16342 UR-2 Carburetor (Code No 53-1)

Std Part No	Special Part	Used on Above Model Car
P-285 P-1693 P-7287 P-12869 P-17187 P-20289	P-17293	Throttle Lever and Stem on Left Side
P-6058 P-20288	P-15941	Choke Lever and Stem
P-11546	P-14265	Choke Tube Holder
P-12802	P-15384	054' Main Metering Jet
P-15410	P-16275	Float Hanger
P-15414	P-16276	Float with Hanger
P-15859	P-15857	No 70 Gas Reducer
P-15949	P-15378	Choke Valve
P-16152	P-15942	Main Body
P-19470	P-17292	Throttle Valve Body 56-68 Idle Holes, Flange Drilled 13/32"
None Shown	P-15346	Tube Holder Attach Screw Lockwasher

NOTE Pump Capacity 7 to 10 CC per 10 strokes with maximum pump travel

SCHRAMM (UB-80)
F-2667 URO-1 Carburetor (Code No 33-9)

Std Part No	Special Part No	Used on Above Model
P-6058	P-21088	Choke Stem
P-11546	P-21104	Lock Plunger Holder
P-12802	P-15384	045 Metering Jet
P-14646	P-15841	Lock Plunger
P-15562	P-15562	1$\frac{5}{16}$" Venturi
P-17591	P-21090	Throttle Valve Body with No 56-70 Idle Holes and Flange Tapped $\frac{5}{16}$-18"
P-17702	P-21089	Throttle Stem
P-20288	P-21125	Choke Lever on Left Side
None Shown	P-1120	Lock Plunger
None Shown	P-1122	Lock Plunger
None Shown	P-3222	Elbow Union in Top F C Cover

NOTE Pump Assembly, Econ Piston and By Pass Jet omitted and plugged

NOTE P-7098 Plug Assem in upper vac suction hole in barrel

SCHRAMM (W-80-A)
F-2673 URO-1 Carburetor (Code No 33-8)

Std Part No	Special Part No	Used on Above Model
P-6058	P-21088	Choke Stem
P-11546	P-21104	Lock Plunger Holder
P-12802	P-15384	045" Metering Jet
P-14646	P-15841	Lock Plunger Holder Attach Screw
P-15562	P-15562	1$\frac{5}{16}$' Venturi
P-17591	P-21090	Throttle Valve Body with No 56-70 Idle Holes and Flange Tapped $\frac{5}{16}$-18"
P-17702	P-21089	Throttle Stem
P-20288	P-21125	Choke Lever on Left Side
None Shown	P-1120	Lock Plunger
None Shown	P-1122	Lock Plunger
None Shown	P-3222	Elbow Union in Top F C Cover

NOTE Pump Assembly, Econ Piston and By-Pass Jet omitted and plugged

NOTE P-7098 Plug Assem in upper vac suction hole in barrel

STUDEBAKER 1931 MODEL "55" AND ROCKNE 1932 MODEL '72 (173744)
3¼ x 4⅝"—6 Cyl Engine
A-15672 UR 2 Carburetor

Std Part No	Special Part No	for Above Model
P-6058 P-20288	P-15941	Air Horn Lever with Stem
P-11546	P-14265	Choke Tube Holder
P-12802	P-15384	054 Metering Jet
P-12869	P-15383	Throttle Lever and Stem
P-15410	P-16275	Float Hanger
P-15414	P-16276	Float with Lever
P-15859	P-15857	No 70 Pump Gas Reducer
P-15949	P-15378	Choke Valve
P-16152	P-15942	Main Body
P-19470	P-15371	Throttle Body No 56-66 Idle Holes Flange Tapped ⅜ -16 on 2$\frac{11}{16}$ Centers
None Shown	P 16324	Flange Studs
None Shown	P-15346	Choke Tube Holder Screw Lockwasher

STUDEBAKER 1931-32 "S-40-50-60" TRUCKS (631463)
(With Governors)
3¼"x4⅛"—6 Cylinder Engine
A-15062 UR-2 Carburetor

Std Part No	Special Part No	Used on Above Model Trucks
P-6058 P-20288	P-15389	Choke Lever and Stem
P-7287	P-7085	Throttle Lever on Right Side
P-11546	P-16044	Tube Holder
P-12769	P-16049	Throttle Lever Stem
P-12802	P-15384	054' Main Metering Jet
P-14084	P-14899	Thro Lever with Wire Conn Left Side
P-15410	P-16275	Float Hanger
P-15414	P-16276	Float with Hanger
P-15859	P-15857	No 70 Gas Reducer
P-15949	P-15378	Choke Valve
P-16152	P-15942	Main Body
P-16487	P-5837	Throttle Loose Lever Stop
P-19470	P-15371	Throttle Valve Body No 56-66 Idle Holes, Flange Tapped ⅜-16"
P-20289	P-6893	Throttle Lever Stop
None Shown	P-13445	Pump Lever with Roller
None Shown	P-15852	Pump Lever Roller Washer
None Shown	P-15599	Flange Stud
None Shown	P-15346	Tube Holder Attach Screw Lockwasher

NOTE Pump Capacity 7 to 10 per 10 strokes with maximum setting pump travel (Bottom Hole)

STUDEBAKER TRUCKS 'S-20-30" 1931-32 (631406)
(Without Governor)
PASSENGER CARS MODEL "54"
3¼' x4⅛"—6 Cylinder
A-14752 UR-2 Carburetor

Std Part No	Special Part No	Used on Above Model Cars and Trucks
P-6058 P-20288	P-15389	Choke Lever and Stem
P-7287	P-7085	Throttle Lever on Right Side
P-11546	P-16044	Choke Tube Holder
P-12802	P-15384	054 Main Metering Jet
P-12869	P-16049	Throttle Lever Stem
P-14084	P-14899	Throttle Loose Lever with Wire Conn on Left Side
P-15347	P-13445	Pump Lever and Roller
P-15410	P-16275	Float Hanger
P-15414	P-16276	Float with Lever
P-15859	P-15857	No 70 Gas Reducer
P 15949	P-15378	Choke Valve
P-16152	P-15942	Main Body
P-16487	P-5837	Throttle Loose Lever Stop
P-19470	P-15371	Throttle Valve Body No 56-66 Idle Holes Flange Tapped ⅜-16"
P-20289	P-6893	Throttle Lever Stop
None Shown	P-15852	Pump Lever Washer
None Shown	P-16324	Flange Stud
None Shown	P-15346	Tube Holder Attach Screw Lockwasher

NOTE Pump Capacity 7 to 10 CC per 10 strokes (Max pump travel)

STUDEBAKER 1934 DICTATOR MODEL "A REGULAR" (511141)
3⅛"x4⅛ —6 Cylinder
A-17252 UR-2 Carburetor (Code No 6-1)

Std Part No	Special Part No	Used on Above Model Car
P-285 P-1693 P-7287 P-12869 P-17187 P-20289	P-17293	Throttle Lever and Stem on Left Side
P-4522	P-16716	Choke Valve Screws
P-6058 P-20288	P-15941	Choke Lever and Stem
P-11546	P-14265	Choke Tube Holder
P-12802	P-15384	054 Main Metering Jet
P-15859	P-15870	No 68 Gas Reducer
P-15949	P-15378	Choke Valve
P-16152	P-15942	Main Body
P-17282	P-17281	Float Needle Valve & Seat (Assem)
P-19470	P-17292	Throttle Valve Body 56-68 Idle Holes, Flange Drilled 13/32"
None Shown	P-15935	Pump Sleeve
None Shown	P-15346	Tube Holder Attach Screw Lockwasher

NOTE Pump Capacity 7 to 10 CC per 10 strokes with middle adj on pump cam

REPLACEMENT EQUIPMENTS
PARTS AND SETTINGS EXCEPTIONS MODELS URO-1-2 AND UR-2 STANDARD CARBURETORS
(Passenger Cars and Trucks)

CHEVROLET 1929 INTERNATIONAL (PKG EQUIPT.)
1930 UNIVERSAL
1931 INDEPENDENCE
3 5/16"x3¾"—6 Cylinder
A-15401 URO-1 Carburetor (Code No 14-4)

Std Part No	Special Part No	Used on Above Model Car
P-285 P-1693 P-7287 P-17187 P-17702 P-20289	P-15570	Throttle Lever and Stem
P-6058 P-20288	P-15568	Choke Lever and Stem
P-11546	P-14070	Choke Tube Holder
P-12802	P-15384K	051 Main Metering Jet
P-14084	P-16372	Throttle Loose Lever
P-15410	P-16275	Float Hanger
P-15414	P-16276	Float with Lever
P-15456	P-7668	Throttle Stop Screw
P-15562	P-15562	13/16" Venturi
P-15831	P-14482	Throttle Stop Screw Spring
P-15839	P-15378	Choke Valve
P-16152	P-15372	Main Body
P-16487	P-5837	Throttle Loose Lever Stop
P-16717	P-4522	Throttle Valve Screw
P-17281	P-17282	Float Needle Valve and Seat Assem
P-17591	P-15460	Throttle Valve Body, 56-70 Idle Holes, Flange Drilled 11/32'
None Shown	P-15346	Tube Holder Attach Screw Lockwasher

EQUIPMENT
P-4751 Gasket—J-4094-F Fitting—P-13233 Cap Screw—P-14088 Cotter Pin—P-15022 Gasket—P-15856 Air Cleaner—P-16459 Vent Connection—P-14636 Bushing—P-16363 Elbow—P-16364 Breather Connection—P-17278 Vent Connection

CHRYSLER 1930 MODEL "CJ" PKG EQUIPT.
3⅛"x4⅛"—6 Cylinder
A-15691 URO-1 Carburetor (Code No 4-17)

Std Part No	Special Part No	Used on Above Model Car
P-285 P-1693 P-7287 P-17187 P-17702 P-20289	P-76551	Throttle Lever and Stem on Left Side
P 6058 P-20288	P-15941	Choke Lever and Stem
P-11546	P-12680	Choke Tube Holder
P-15379	P-15379	No 56 High Speed Bleeder
P-15405	P-15405	022" By-Pass Jet
P-15410	P-16275	Float Hanger
P-15414	P-16276	Float with Lever
P-15839	P-15378	Choke Valve
P-16152	P-15942	Main Body
P-16717	P-4522	Throttle Valve Screw
P-17281	P-17282	Float Needle Valve and Seat Assembly
P-17591	P-15460	Throttle Valve Body, 56-66 Idle Holes Flange Tapped 13/16-18"
None Shown	P-15346	Tube Holder Attach Screw Lockwasher

CHRYSLER "C M" 1931 (PKG EQUIPT)
3¼' x4¼"—6 Cylinder
A-12632 UR-2 Carburetor (Code No 4-18)

Std Part No	Special Part No	Used on Above Model Car
P-285 P-1693 P-7287 P-12869 P-17187 P-20289	P-15951	Throttle Lever and Stem on Left Side
P-6058 P-20288	P-15941	Choke Lever and Stem
P 11546	P-12680	Choke Tube Holder
P-15405	P-15405	038 By-Pass Jet
P-15410	P-16275	Float Hanger
P-15414	P-16276	Float with Lever
P-15479	P-15960	Vacuum Economizer (Complete)
P-16152	P-15942	Main Body
P-19470	P-15371	Throttle Valve Body No 56-70 Idle Holes Flange Tapped ⅜-16"
None Shown	P-15935	Pump Sleeve
None Shown	P-6385	Flnage Stud
None Shown	P-15346	Tube Holder Attach Screw Lockwasher

EQUIPMENT
P-11083 Hex Nuts—P-5364 Lockwasher—P-15856 Air Cleaner—P-4752 Flange Gasket—P-79 Cotter Pin

CHRYSLER 1932 PKG EQUIPT.
3¼"x4½"—6 Cylinder
A-16632 UR-2 Carburetor (Code No 4-22)

Std Part No	Special Part No	Used on Above Model Car
P-285	P-3196	Fillister Head Screw
P-6058 P-20288	P-15389	Choke Lever and Stem
P-7287	P-7194	Throttle Lever on Left Side
P-12802	P-15384	054" Main Metering Jet
P-12869	P-13298	Throttle Stem
P-15376	P-17471	No 32 Main Discharge Jet
P-15410	P-16275	Float Hanger
P-15414	P-16276	Float with Lever
P-16152	P-15942	Main Body
P-19470	P-15371	Throttle Valve Body, No 56-70 Idle Holes Flange Tapped ⅜-16"
P-20289	P-17290	Throttle Stop
None Shown	P-15935	Pump Sleeve
None Shown	P-15418	Flange Stud
None Shown	P-3221	Union Elbow
None Shown	P-15346	Tube Holder Attach Screw Lockwasher

EQUIPMENT
P-4752 Gasket—P-17266 Throttle Rod—P-17265 Gas Line

DE SOTO MODEL "CK" 1930 (PKG. EQUIPT)
3⅛' x4⅛"—6 Cylinder
A-15691 URO-1 Carburetor

See Chrysler "CJ" for specification

DE SOTO 1931 (PKG EQUIPT)
3¼"x4¼"—6 Cylinder
A-12632 UR-2 Carburetor

See Chrysler "CM" for specification

DE SOTO 1932 (PKG EQUIPT)
3¼"x4½'—6 Cylinder
A-16632 UR-2 Carburetor

See Chrysler 1932 for specification

DE VAUX 1931
3⅜"x4"—6 Cylinder Engine
J-4171-A UR-2 Carburetor and Equipment

Std Part No	Special Part No	Used on Above Model Car
P-285 P-1693 P-17187 P-20289	P-6893	Throttle Stop
P-6058 P-20288	P-15389	Choke Lever and Stem
P-7287	P-7833	Throttle Lever (13/64' on 1⅛' CC) on Right Side
P-12802	P-15384	057" Main Metering Jet
P-14084	P-15561	Throttle Loose Lever on Left Side
P-15347	P-12534	Pump Lever with Roller
P-15374	P-15374	1 1/16" Venturi
P-15405	P-15405	038" By-Pass Jet
P-15859	P-15870	No 68 Gas Reducer
P-19740	P-19740	Throttle Valve Body No 56-70 Idle Holes, Flange Drilled 13/32"
None Shown	P-15852	Pump Lever Collar

NOTE Pump Capacity 11 to 13 CC per 10 strokes

EQUIPMENT
P-4752 Flange Gasket—P-17326 Air Cleaner

DODGE MODEL "DD-6" 1930 (PKG. EQUIPT)
3⅛"x4⅛"—6 Cylinder
A-15691 URO-1 Carburetor

See Chrysler "CJ" for specification

DODGE MODEL "D H" 1931 (PKG EQUIPT)
3¼"x4¼"—6 Cylinder
A-12632 UR-2 Carburetor

See Chrysler "CM" for specification

DODGE 1932 PKG EQUIPT
3¼' x4⅜"—6 Cylinder Engine
A-16532 UR-2 Carburetor (Code No 3-12)

Std Part No	Special Part No	Used on Above Model Car
P-285	P-3196	Screw
P-6058 P-20288	P-15389	Choke Lever and Stem
P-7287	P-7194	Throttle Lever (Comp) on Left Side
P-12802	P-15384	054" Main Metering Jet
P-12869	P-13298	Throttle Stem
P-15376	P-17471	No 32 Main Discharge Jet
P-15405	P-15405	038" By-Pass Jet
P-15410	P-16275	Float Hanger
P-15414	P-16276	Float with Hanger
P-16152	P-15942	Main Body
P-19470	P-15371	Throttle Valve Body No 56-80 Idle Holes, Flange Tapped ⅜-16"
P-20289	P-17290	Throttle Lever Stop
None Shown	P-15935	Pump Sleeve
None Shown	P-15418	Flange Stud
None Shown	P-15346	Tube Holder Attach Screw Lockwasher

EQUIPMENT
P-16389 Air Cleaner—P-4752 Flange Gasket—P-79 Cotter Pin—P-5558 Hexagon Nut—P-5364 Lockwasher

REPLACEMENT EQUIPMENTS
PARTS AND SETTINGS EXCEPTIONS MODELS URO-1-2 AND UR-2 STANDARD CARBURETORS (Continued)
(Passenger Cars and Trucks)

ERSKINE 1928-29 MODEL "52"
2¾"x4½'—6 Cylinder Continental "9-F" Motor
J-4133 URO-1 Carburetor and Equipment (Code No 62-2)

Std Part No	Special Part No	Used on Above Model Car
P-285 P-1693 P-7287 P-17187 P-17702 P-20289	P-16475	Throttle Lever and Stem on Left Side
P-6058 P-20288	P-15568	Choke Lever and Stem
P-11546	P-11969	Choke Tube Holder
P-14084	P-8901	Throttle Loose Lever (13/64" on 1½" CC) on Right Side
P-15562	P-15562	⅞" Venturi
P-16152	P-15372	Main Body
P-16487	P-5837	Throttle Loose Lever Stop
P-17591	P-17591	Throttle Valve Body, No 56-66 Idle Holes Flange Tapped 5/16-18"
None Shown	P-8514	Union Elbow

EQUIPMENT

P-15022 Gasket—P-79 Cotter Pin

ESSEX 1930 CHALLENGER 1931 "SUPER SIX" (PKG. EQUIPT)
2¾"x4½"—6 Cylinder
A-14632 UR-2 Carburetor

Std Part No	Special Part No	Used on Above Model Car
P-6058 P-10288	P-15389	Choke Lever and Stem
P-7287	P-11783	Throttle Lever on Right Side
P-12869	P-13126	Throttle Lever Stem
P-14084	P-9418	Throttle Lever on Left Side
P-15347	P-13445	Pump Lever and Roller
P-15405	P-15405	034' By-Pass Jet
P-15410	P-16275	Float Hanger
P-15414	P-16276	Float with Lever
P-15859	P-15870	No 68 Gas Reducer
P-16152	P-15942	Main Body
P-19470	P-15371	Throttle Valve Body 56-66 Idle Holes, Flange Drilled 13/32"
P-20289	P-13245	Throttle Stop
None Shown	J-4128	Manifold Fitting
None Shown	P-4752	Manifold Fitting Gasket
None Shown	P-8515	Union Elbow
None Shown	P-15346	Tube Holder Attach Screw Lockwasher
None Shown	P-15882	Pump Lever Roller Washer

NOTE Pump Capacity, 9 to 12 CC per 10 strokes with maximum pump travel

EQUIPMENT

P-15367 Gasket—P-15349 Taper Plug—P-16042 Throttle Rod—P-16043 Hot Spot Rod—P-11250 Washer—P-6068 Washer—P-79 Cotter Pin—P-15856 Air Cleaner

FORD 1928-31 MODEL "A" PKG EQUIPT
3⅞"x4¼"—4 Cylinder
A-15101 URO-1 Carburetor

Std Part No	Special Part No	Used on Above Model Car
P-6058 P-20288	P-15941	Choke Lever and Stem
P-7287 P-17702 P-20289	P-16092	Throttle Lever and Stem
P-11546	P-12680	Choke Tube Holder
P-15405	P-15405	028' By-Pass Jet
P-15410	P-16275	Float Hanger
P-15414	P-16276	Float
P-15562	P-15562	15/16' Venturi
P-15839	P-15378	Choke Valve
P-15857	P-15870	No 68 Pump Reducer
P-16152	P-15942	Main Body
P-17281	P-17282	Float Needle Valve and Seat
P-17591	P-15460	Throttle Valve Body with 56-70 Idle Holes Flange Tapped 5/16-18

EQUIPMENT

P-15022 Gasket—P-16602 Dash Control—P-16603 Air Cleaner—P-3260 Gasket—P-16627 Hose—P-16625 Hose Clamp—P-16623 Hose Elbow—P-16606 Bushing—P-16624 Hose Elbow—P-16626 Hose Nipple

FORD MODEL "B" 1932 (PKG. EQUIPT)
3⅞"x4¼"—4 Cylinder
A-16871 URO-1 Carburetor

Std Part No	Special Part No.	Used on Above Model Car
P-285 P-1693 P-7287 P-17187 P-17702 P-20289	P-16092	Throttle Lever and Stem
P-6058 P-20288	P-15389	Choke Lever and Stem
P-12802	P-15384	052' Main Metering Jet
P-15405	P-15405	028" By-Pass Jet
P-15410	P-16275	Float Hanger
P-15414	P-16276	Float with Lever
P-15562	P-15562	1 Venturi
P-15839	P-15378	Choke Valve
P-16152	P-15942	Main Body
P-16717	P-4522	Throttle Valve Screw
P-17591	P-15460	Throttle Valve Body 56-70 Idle Holes, Flange Tapped 5/16-18"
None Shown	P-15346	Tube Holder Attach Screw Lockwasher
None Shown	P-8514	Union Elbow

EQUIPMENT

P-17886 Gas Line (complete)—P-17885 Choke Control (complete)—P-16603 Air Cleaner—P-15022 Flange Gasket

GRAHAM 1931 STANDARD "6" & SPECIAL "6"
3¼"x4½"—6 Cylinder Engine (3400 R P M)
J-4216 UR-2 Carburetor and Equipment

Std Part No	Special Part No	Used on Above Model Car
P-285	P-3196	Pump Cam Screw
P-6058 P-20288	P-17233	Choke Lever and Stem
P-7287	P-7246	Throttle Lever (13/64" on 1¼" CC) on Left Side
P-11546	P-12677	Choke Tube Holder
P-12802	P-15384	054" Main Metering Jet
P-12869	P-13298	Throttle Stem
P-15376	P-17471	No 32 Main Discharge Jet
P-15859	P-15857	Gas Reducer
P-19470	P-19470	Throttle Valve Body, No 56-70 Idle Holes, Flange Drilled 13/32"
P-20289	P-17290	Throttle Stop
None Shown	P-3221	Union Elbow

NOTE Pump Capacity, 8 to 10 CC per 10 strokes

EQUIPMENT

P-16389 Air Cleaner—P-16550 Air Horn Elbow—P-8714 Throttle Rod, 6¼' long—P-5762 Ball Joint—P-13470 Clamp Lever—P-4752 Gasket—P-7170 Cotter Pin

GRAHAM 1931-32 MODEL "PROSPERITY '6'"
3⅛'x4¼"—6 Cylinder Engine
J-4218 UR-2 Carburetor and Equipment

Std Part No.	Special Part No	Used on Above Model Car
P-285	P-3196	Pump Cam Screw
P-6058 P-20288	P-15568	Choke Lever and Stem
P-7287	P-17477	Double Arm Throttle Lever (7/32" and 'H' Drill on 1¼" CC) on Left Side
P-11546	P-11969	Choke Tube Holder
P-12802	P-15384	054 Main Metering Jet
P-12869	P-13298	Throttle Stem
P-15376	P-17471	No 32 Main Discharge Jet
P-15859	P-15857	No 70 Gas Reducer
P-17187 P-20289	P-17290	Throttle Stop
P-19470	P-19470	Throttle Valve Body, No 56-70 Idle Holes, Flange Drilled 13/32"
None Shown	P-3221	Union Elbow
None Shown	P-9961	Throttle Lever Sliding Block
None Shown	P 6986	Throttle Lever Sliding Block Washer
None Shown	P-7170	Thro Lever Sliding Block Cotter Pin

NOTE Pump Capacity 8 to 10 CC per 10 strokes

EQUIPMENT

P 16603 Air Cleaner—P-4752 Gasket—P-7170 Cotter Pin

REPLACEMENT EQUIPMENTS

PARTS AND SETTINGS EXCEPTIONS MODELS URO-1-2 AND UR-2 STANDARD CARBURETORS (C ntinued)

(Passenger Cars and Trucks)

GRAHAM 1932 MODEL "BLUE STREAK"

3⅛"x4"—8 Cylinder Engine

J-4245 URO-2 Carburetor and Equipment (Code No 9-14)

Std Part No	Special Part No	Used on Above Model Car
P-6058 P-20288	P-17233	Choke Lever and Stem
P-7287	P-15854	Throttle Lever (Wire Conn on 1⅛ CC) on Left Side
P-11546	P-12677	Choke Tube Holder
P-12802	P-15384	058' Main Metering Jet
P-15376	P-15376	No 32 Main Discharge Jet
P-15393	P-12534	Pump Lever
P-15405	P-15405	044' By-Pass Jet
P-20289	P-7370	Throttle Stop
P-20862	P-13132	Throttle Lever Stem
None Shown	P-3222	Union Elbow
None Shown	P-7196	Throttle Lever (7/32' on 1½ CC) on Left Side
None Shown	P-15852	Pump Lever Collar

EQUIPMENT

P-4753 Gasket (Flange)—P-79 Cotter Pin—P-16550 Air Horn Elbow

GRAHAM 1932-33 BLUE STREAK & GREATER '6" "65"

3⅛'x4½"—6 Cylinder Engine

J-4266 UR-2 Carburetor and Equipment

Std Part No.	Special Part No	Used on Above Model Car
P-285	P-3196	Pump Cam Screw
P-6058 P-20288	P-17233	Choke Lever and Stem
P-7287	P-7679	Throttle Lever (¼-20 on 1½" CC) on Left Side
P-11546	P-12677	Choke Tube Holder
P-12802	P-15384	053' Main Metering Jet
P-12869	P-13298	Throttle Lever Stem
P-15859	P-15857	No 70 Gas Reducer
P-15405	P-15405	034' By-Pass Jet
P-17187 P-20289	P-17290	Throttle Lever Stop
P-19470	P-19470	Throttle Valve Body No 56-70 Idle Holes Flange Drilled 13/32
None Shown	P-3278	Union Elbow
None Shown	P-13150	Throttle Lever Ball Joint Connector

NOTE Pump Capacity, 8 to 10 CC per 10 strokes

EQUIPMENT

P-18170 Fuel Line—P-4752 Gasket—P-18168 Adapter

HUDSON 1930 "GREAT 8" & 1931 "GREATER 8" (PKG EQUIPT)

2¾' x4½"—2⅞"x4½'—8 Cylinder

A-16422 UR-2 Carburetor

Std Part No	Special Part No	Used on Above Model Car
P-6058 P-20288	P-17306	Choke Lever and Stem
P-7287	P-10591	Throttle Lever on Right Side
P-11546	P-12837	Choke Tube Holder
P-12802	P-15384	058 Main Metering Jet
P-14084	P-9428	Throttle Lever on Left Side
P-15347	P-12534	Pump Lever with Roller
P-15374	P-15374	1⅛ Venturi
P-15379	P-15379	No 60 H S Bleeder
P-15405	P-15405	044' By-Poss Jet
P-15410	P-16275	Float Hanger
P-15414	P-16276	Float with Lever
P-15859	P-15836	No 62 Gas Reducer
P-16152	P-15942	Main Body
P-19470	P-15371	Throttle Valve Body, No 56-70 Idle Disc Holes Flange Drilled 13/32"
P-20289	P-13245	Throttle Stop
None Shown	P-15852	Pump Stem Collar
None Shown	P-3221	Union Elbow
None Shown	P-15346	Tube Holder Attach Screw Lockwasher

EQUIPMENT

J-4177-F Fitting—P-16389 Air Cleaner—P-16550 Air Horn Elbow —P-4752 Flange Gasket—P-7428 Nut—P-5364 Lockwasher—P-17125 Rod—P-15578 Gas Line—P-4 Cotter Pin

HUDSON 1932 "NEW GREATER EIGHT" (PKG EQUIPT.)

3"x4½'—8 Cylinder

A-16452 URO-2 Carburetor (Code No 22-1)

Std Part No	Special Part No	Used on Above Model Car
P-4522	P-16717	Throttle Valve Screws
P-6058 P-20288	P-17366	Choke Lever and Stem
P-7287	P-10581	Throttle Lever on Right Side
P-11546	P-12837	Choke Tube Holder
P-12802	P-15384	057' Metering Jet
P-15347	P-12534	Pump Lever with Roller
P-15379	P-15379	No 65 High Speed Bleeder
P-15405	P-15405	038 By-Pass Jet
P-15410	P-16275	Float Hanger
P-15414	P-16276	Float with Lever
P-16152	P-15942	Main Body
P-17144	P-15836	No 62 Gas Reducer
P-20289	P-13245	Throttle Lever Stop
P-20862	P-17346	Throttle Lever Stem
P-20863	P-17112	Throttle Valve Body 56-70 Idle Holes, Flange Drilled 13/32'
None Shown	P-15852	Pump Lever Collar
None Shown	P-17481	Union Elbow

EQUIPMENT

J-4213-F Fitting—P-16389 Air Cleaner—P-16550 Air Horn Elbow —P-4753 Gasket—P-5364 Lockwasher—P-7428 Nut—P-17316 Gas Line —P-7170 Cotter Pin—P-8954 Vacuum Line Extension

NASH 1931 MODEL "6-60"

3⅛' x4⅜"—6 Cylinder Engine

J-4167 URO-1 Carburetor and Equipment

Std Part No	Special Part No	Used on Above Model Car
P-285 P-1693 P-7287 P-17187 P-17702 P-20289	P-16551	Throttle Lever and Stem on Left Side
P-6058 P-20288	P-15941	Choke Lever and Stem
P-11546	P-12680	Choke Tube Holder
P-15379	P-15379	No 56 High Speed Bleeder
P-15405	P-15405	034" By-Pass Jet
P-15857	P-15870	No 68 Gas Reducer
P-17591	P-17591	Throttle Valve Body, No 54-66 Idle Holes, Flange Drilled 11/32"

EQUIPMENT

P-16261 Air Cleaner—J-4094-F Fitting—P-15022 Gasket—P-4751 Gasket—P-13233 Cap Screw

OLDSMOBILE 1928-30 MODEL "F" PKG EQUIPT

3 3/16"x4⅛"—6 Cylinder

A-16731 URO-1 Carburetor

Std Part No	Special Part No	Used on Above Model Car
P-285 P-1693 P-17187 P-20289	P-13245	Throttle Lever Stop
P-6058 P-20288	P-15389	Choke Lever and Stem
P-7287	P-7833	Throttle Lever on Right Side
P-12802	P-15384	054" Main Metering Jet
P-15347	P-12534	Pump Lever with Roller
P-15405	P-15405	034" By-Pass Jet
P-15410	P-16276	Float with Lever
P-15410	P-16275	Float Hanger
P-15414	P-16276	Float with Lever
P-15562	P-15562	1" Venturi
P-15839	P-15378	Choke Valve
P-15857	P-15870	No 68 Gas Reducer
P-16152	P-15942	Main Body
P-16717	P-4522	Throttle Valve Screw
P-17591	P-15460	Throttle Valve Body with 56-70 Idle Holes, Flange Tapped 5/16-18'
P-17702	P-14268	Throttle Stem
None Shown	P-15346	Tube Holder Attach Screw Lockwasher
None Shown	P-15852	Pump Lever Collar
None Shown	P-14898	Flange Stud
None Shown	P-8515	Union Elbow

NOTE Pump Capacity 10 to 12 CC per 10 strokes

EQUIPMENT

P-16120 Hex Nut—P-6592 Lockwasher—P-7170 Cotter Pin—P-2714 Street Elbow—P-14086 Gas Line—P-14219 Washer—P-3759 Union Nipple—P-15022 Flange Gasket—P-16603 Air Cleaner

PLYMOUTH (PKG EQUIPT)

1930 (After Serial No 1,500,000) & 1931

3⅞"x4¾"—4 Cylinder Engine

A-15491 URO-1 Carburetor

Std Part No	Special Part No	Used on Above Model Car
P-285 P-1693 P-7287 P-17187 P-17702 P-20289	P-16551	Throttle Lever and Stem on Left Side
P-6058 P-20288	P-15941	Choke Lever and Stem
P-11546	P-12680	Choke Tube Holder
P-15379	P-15379	No 56 High Speed Bleeder
P-15405	P-15405	034' By-Pass Jet
P-15410	P-16275	Float Hanger
P-15414	P-16276	Float with Lever
P-15839	P-15378	Choke Valve
P-16152	P-15942	Main Body
P-16717	P-4522	Throttle Valve Screw
P-17281	P-17282	Float Needle Valve and Seat Assembly
P-17591	P-15460	Throttle Valve Body No 56 60 Idle Holes Flange Tapped 5/16-18'
None Shown	P-5878	Flange Stud
None Shown	P-8514	Union Elbow
None Shown	P-15346	Tube Holder Attach Screw Lockwasher

EQUIPMENT

P-15022 Gasket—P-79 Cotter Pin—P-11589 Gas Line Extension—P-3759 Union Nipple—P-9882 Hexagon Nuts—P-16261 Air Cleaner—P-16550 Air Horn Extension with Screw

REPLACEMENT EQUIPMENTS
PARTS AND SETTINGS EXCEPTIONS MODELS URO-1-2 AND UR-2 STANDARD CARBURETORS (Continued)
(Passenger Cars and Trucks)

PLYMOUTH 1931 "FLOATING POWER" (PKG EQUIPT)
3⅞"x4¾ —6 Cylinder Engine
A-15751 URO-1 Carburetor (Code No 15-3)

Std Part No	Special Part No	Used on Above Model Car
P-285 P-1693 P-7287 P-17187 P-17702 P-20289	P-16809	Throttle Lever and Stem on Left Side
P-6058 P-20288	P-15941	Choke Lever and Stem
P-11546	P-12680	Choke Tube Holder
P-14084	P-15954	Loose Lever with Wire Connector on Right Side
P-15379	P-15379	No 56 High Speed Bleeder
P-15405	P-15405	034 By-Pass Jet
P-15839	P-15378	Choke Valve
P-16717	P-4522	Throttle Valve Screw
P 17281	P-17282	Float Needle Valve and Seat Assembly
P-17591	P-16811	Throttle Valve Body No 58-70 Idle Holes Flange Tapped $\frac{5}{16}$-18
None Shown	P-15346	Tube Holder Attach Screw Lockwasher
None Shown	P-16722	Union Elbow
None Shown	P-15956	Choke Tube Holder

NOTE Pump Capacity 6 to 8 CC per 10 strokes

EQUIPMENT
P-15022 Gasket—P-16720 Bracket—P-5558 Hexagon Nut—P-5364 Lockwasher—P-16723 Gas Line Extension

PLYMOUTH 1932 (PKG EQUIPT)
3⅞"x4¾' —4 Cylinder Engine
A-15752 UR-2 Carburetor (Code No 15-2)

Std Part No	Special Part No	Used on Above Model Car
P-285 P-1693 P-7287 P-12869 P-17187 P-20289	P-16020	Throttle Lever and Stem on Left Side
P-6058 P-20288	P-16374	Choke Lever and Stem
P-11546	P-12680	Choke Tube Holder
P-12802	P-15384	054 Metering Jet
P-14084	P-15954	Throttle Loose Lever Complete on Right Side
P-15405	P-15405	030 By-Pass Jet
P-15414	P-16276	Float with Lever
P-15419	P-16275	Float Hanger
P-15859	P-15870	No 68 Gas Reducer
P-16152	P-15942	Main Body
P-19470	P-17762	Throttle Valve Body No 56-70 Idle Holes Flange Tapped ⅜-16'
None Shown	P-15418	Flange Stud
None Shown	P-15346	Tube Holder Attach Screw Lockwasher

EQUIPMENT
P-16723 Fuel Line—P-4752 Flange Gasket—P-79 Cotter Pin—P-215 Fillister Screw

PONTIAC 1929 30 31 (PKG EQUIPT)
3$\frac{5}{16}$ x3⅞"—6 Cylinder Engine
A-12272 UR-2 Carburetor

Std Part No	Special Part No	Used on Above Model Car
P-285	P-2942	Fillister Head Screw
P-6058 P-20288	P-16374	Air Horn Lever and Stem
P-7287	P-10820	Throttle Lever on Left Side
P-11546	P-12680	Choke Tube Holder
P-12869	P-13298	Throttle Stem
P-14084	P-16392	Throttle Loose Lever
P-15376	P-15376	No 30 Main Discharge Jet
P-15379	P-15379	No 56 High Speed Bleeder
P-15405	P-15405	034 By-Pass Jet
P-15410	P-16275	Float Hanger
P-15414	P-16276	Float with Lever
P-15859	P-15749	No 60 Gas Reducer
P-16152	P-15942	Main Body
P-19470	P-15371	Throttle Valve Body No 56-70 Idle Holes Flange Drilled 13/32'
P-20289	P-17290	Throttle Stop
None Shown	P-15935	Pump Sleeve
None Shown	P-8514	Union Elbow
None Shown	P-14819	Throttle Stem Collar
None Shown	P-15346	Tube Holder Attach Screw Lockwasher

EQUIPMENT
P-79 Cotter Pin—P-4752 Flange Gasket—P-16389 Air Cleaner

PONTIAC 1932 (PKG EQUIPT)
3$\frac{5}{16}$"x3⅞"—6 Cylinder Engine
A-16582 UR-2 Carburetor

Std Part No	Special Part No	Used on Above Model Car
P-285	P-2942	Throttle Fillister Head Screw
P-4522	P-16717	Throttle Valve Screw
P-6058 P-20288	P-16374	Choke Lever and Stem
P-7287	P-17528	Throttle Lever on Left Side
P-11546	P-12680	Choke Tube Holder
P-12802	P-15384	054 Main Metering Jet
P-12869	P-17531	Throttle Stem
P-14084	P-16392	Throttle Loose Lever on Left Side
P-15410	P-16275	Float Hanger
P-15414	P-16276	Float with Lever
P-16152	P-15942	Main Body
P-19470	P-15371	Throttle Valve Body No 56-70 Idle Holes, Flange Drilled 13/32"
P-20289	P-17290	Throttle Stop
None Shown	P-15935	Pump Sleeve
None Shown	P-8514	Union Elbow
None Shown	P-15346	Tube Holder Attach Screw Lockwasher
None Shown	P-6254	Tube Holder Tube
None Shown	P-17530	Choke Lever Spring

EQUIPMENT
P-7170 Cotter Pin—P-17527 Heat Control Rod—P-16465 Flange Gasket—P-17294 Washer

WILLYS 1929-30 MODEL "98-B"
3¼"x3⅞ —6 Cylinder Engine
J-4175 URO-1 Carburetor and Equipment

Std Part No	Special Part No	Used on Above Model Car
P-285 P-1693 P-17187 P-20289	P-13245	Throttle Lever Stop
P-6058 P-20288	P-15389	Choke Lever and Stem
P-7287	P-17084	Throttle Lever (17/64' on 1⅛ CC) (No 40 Drill on ½ CC) on Right Side
P-12802	P-15384	052 Main Metering Jet
P-14084	P-17082	Throttle Lever and Wire Connector on Left Side
P-15347	P-12534	Pump Lever and Roller
P-15562	P-15562	$\frac{15}{16}$' Venturi
P-17591	P-15791	Throttle Valve Body No 56-70 Idle Holes Flange Drilled 11/32'
P-17702	P-16069	Throttle Lever Stem
None Shown	P-15852	Pump Lever Collar
None Shown	P-11706	Throttle Lever Sliding Block
None Shown	P-6986	Throttle Lever Sliding Block Washer
None Shown	P-4	Cotter Pin

EQUIPMENT
P-15022 Gasket—P-16389 Air Cleaner—P-6171 Wire Connector

WILLYS-KNIGHT 1929 30 MODELS "70-B" & "87"
2$\frac{15}{16}$"x4⅞"—6 Cylinder Engine
J-4176 URO-1 Carburetor and Equipment

Std Part No	Special Part No	Used on Above Model Car
P-285 P-1693 P-17187 P-20289	P-13245	Throttle Lever Stop
P-6058 P-20288	P-15568	Choke Lever and Stem
P-7287	P-17075	Throttle Lever with Wire Connector on Right Side
P-11546	P-11969	Choke Tube Holder
P-12802	P-15384	052 Main Metering Jet
P-14084	P-17124	Throttle Lever (17/64 on 1⅛" CC) (No 40 Drill on ½ CC) on Left Side
P-15347	P-12534	Pump Lever and Roller
P-15562	P-15562	$\frac{15}{16}$ Venturi
P-16152	P-15372	Main Body
P 17591	P-17591	Throttle Valve Body No 56-70 Idle Holes Flange Drilled 11/32'
P-17702	P-16069	Throttle Lever Stem
None Shown	P-15852	Pump Lever Collar
None Shown	P-8515	Union Elbow

EQUIPMENT
P-15856 Air Cleaner—P 6171 Wire Connector—P-15022 Gasket—P-17127 Gas Line (Comp)—P-4 Cotter Pin

REPLACEMENT EQUIPMENTS
PARTS AND SETTINGS EXCEPTIONS MODELS URO-1-2 AND UR-2 STANDARD CARBURETORS (C ntinued)
(Passenger Cars and Trucks)

WILLYS-KNIGHT 1931-32 MODEL "66-D"
3⅜"x4¾"—6 Cylinder Engine
J-4212 UR-2 Carburetor and Equipment

Std Part No	Special Part No	Used on Above Model Car
P-285 P-1693 P-7287 P-12869 P-17187 P-20289	P-15570	Throttle Lever and Stem
P-6058 P-20288	P-17233	Choke Lever and Stem
P-11546	P-12677	Choke Tube Holder
P-12802	P-15384	057 Main Metering Jet
P-14084	P-17082	Throttle Lever with Wire Connector on Right Side
P-15374	P-15374	1 1/16" Venturi
P-15405	P-15405	042' By-Pass Jet
P-15859	P-15836	No 62 Gas Reducer
P-19470	P-17292	Throttle Valve Body Nó 56-70 Idle Holes Flange Tapped ⅜-16
None Shown	P-3221	Union Elbow

NOTE Pump Capacity 10 to 12 CC per 10 strokes

EQUIPMENT

J-4064-F Fitting—P-16389 Air Cleaner—P-15578 Gas Line—P-16550 Air Horn Elbow—P-4752 Gasket—P-560 Cotter Pin—P-6171 Wire Connector—P-2974 Cap Screw—P-3279 Union Nipple

HUPP 1927—28 MODEL "A" & "CENTURY-6"
3¼"x4¼"—6 Cylinder
J-4576 UR-2 Carburetor (Code No 19-15)

Std Part No	Special Parts	Used on Above Model Car
P-7287	P-6030	Throttle Lever
P-12802	P-15384	055 Metering Jet
P-15374	P-15374	1 1/32 Venturi
P-15405	P-15405	042' By-Pass Jet
None Shown	P 2714	Street Elbow

WILLYS-OVERLAND 1932-33 MODEL "6-90"
WILLYS 1931 MODEL "97" & "98-D"

(PKG EQUIPT)
3¼"x3⅞'—6 Cylinder Engine
A-14931 URO-1 Carburetor

Std Part No	Special Part No	Used on Above Model Car
P-6058 P-20288	P-15389	Choke Lever and Stem
P-7287	P-14323	Throttle Lever on Right Side
P-12802	P-15384	051 Main Metering Jet
P-14084	P-15854	Throttle Lever on Left Side
P-15347	P-12534	Pump Lever and Roller
P-15405	P-15405	032 By-Pass Jet
P-15410	P-16275	Float Hanger
P-15414	P-16276	Float with Lever
P-15562	P-15562	15/16 Venturi
P-15839	P-15378	Choke Valve
P-16152	P-15942	Main Body
P-17281	P-17282	Float Needle Valve and Seat Assembly
P-17591	P-15800	Throttle Valve Body No 56-66 Idle Holes Flange Drilled 11/32"
P-17702	P-15855	Throttle Lever Stem
P-20289	P-13245	Throttle Stop
None Shown	P-11709	Throttle Lever Sliding Block
None Shown	P-15852	Throttle Lever Sliding Block Washer
None Shown	P-4	Throttle Lever Sliding Block Cotter Pin
None Shown	P-13828	Throttle Lever Bushing
None Shown	P-15346	Tube Holder Attach Screw Lockwasher

EQUIPMENT

P-15217 Elbow Union—P-15022 Gasket—P-15856 Air Cleaner (A C)—P-6171 Wire Connector and Screw

STUDEBAKER 1930 MODEL "53"
3¼"x4⅛"—6 Cylinders
J-4579 UR-2 Carburetor (Code No 6 47)

Std Part No.	Special Parts	Used on Above Model Car
P-6058	P-15568	Choke Lever and Stem
P-7287	P-14168	Throttle Lever
P-11546	P-11969	Choke Tube Holder
P-12802	P-15384	054 Metering Jet
P-14084	P-15416	Throttle Loose Lever
P-15859	P-15857	No 70 Pump Reducer
P-19740	P-19740	Throttle Valve Body with No 56 66 Idle Holes Flange Tapped ⅜ -16

UNIVERSAL CARBURETOR REPLACEMENT KITS
PARTS AND SETTINGS EXCEPTIONS MODELS URO-1 STANDARD CARBURETOR

UNIVERSAL CARBURETOR REPLACEMENT KITS
A-17531 URO-1 Carburetor (Code No. 1-5)
Parts Exception Model URO-1 Standard Carburetors

Std. Part No.	Special Part No.	Used on Above Carburetor
P-285	Omitted	....
P-1693	Omitted	....
P-6058 P-20288	P-15389	Choke Lever and Stem ....
P-7287	Omitted	....
P-14084	Omitted	....
P-15347	Omitted	....
P-15562	P-15562	15/16" Venturi ....
P-16487	Omitted	....
P-17187	Omitted	....
P-17281	P-17282	Float Needle Valve and Seat ....
P-17591	P-17591	Throttle Valve Body with No. 56-70 Idle Holes and Fl. Drilled 11/32"
P-20289	Omitted	....

THE FOLLOWING FITTING KITS ARE USED WITH THE ABOVE CARBURETOR

BUICK 1926, 27, '28 "STD. 6"
3⅛"x4½"—6-Cylinder
J-4243 Kit

P-3221 Union Elbow—P-15568 Air Horn Lever and Stem—P-7246 Throttle Lever—P-13245 Throttle Stop—P-12534 Pump Lever and Roller—P-15852 Collar—P-20899 Fitting—P-15022 Gasket—P-13470 Throttle Conn. Lever—P-13459 Throttle Conn. Rod—P-3759 Union Nipple—P-12229 Gas Line Extension—P-8819 Union Nipple—P-79 Cotter Pin—P-15856 Air Cleaner.

CHEVROLET 1925 TO 1928 MODELS AA, K, V, & NATIONAL
3 11/16"x4", 4-Cyl. Engine
J-4770 Kit

P-18911 Throttle Stop—P-8794 Throttle Lever—P-10836 Throttle Lever—P-15568 Choke Lever & Stem—P-14070 Choke Tube Holder—P-15935 Pump Sleeve (Under Piston)—P-13233 Cap Screws—J-4094F Fitting—P-15022 Flange Gasket—P-4751 Gasket—P-11877 Throttle Rod (Foot Conn.)—P-11880 Throttle Rod (Hand Conn.)—P-15856 Air Cleaner—P-16363 Vent Conn. Elbow—P-14088 Cotter Pin—P-4557 Union Elbow.

CHEVROLET 1929-30-31
3 5/16"x3¾"—6-Cylinder
J-4306 Kit

P-15935 Pump Stud Sleeve—P-16372 Loose Lever—P-16487 Loose Lever Stop—P-17084 Throttle Lever—P-15568 Air Horn Lever and Stem—P-14070 Tube Holder—J-4094-F Manifold Fitting—P-4751 Flange Gasket—P-15022 Flange Gasket—P-13233 Cap Screws—P-10488 Cotter Pins—P-15856 Air Cleaner—P-14659 Vent Connection—P-16636 Bushing—P-16363 Elbow—P-16364 Breather Connection—P-17278 Vent. Connection.

DODGE 1927 "124-128"
3⅞"x4½"—4-Cylinder
J-4447 Kit

P-8514 Union—P-11783 Throttle Lever—P-13245 Throttle Stop—P-12534 Pump Lever—P-15852 Collar—P-15022 Gasket.

GRAHAM TRUCK 1927-28 ½, ¾, 1 & 1½ TON
3⅞"x4½"—4 Cylinder Engine
J-4767 Kit

P-11783 Throttle Lever—P-13245 Throttle Stop—P-15568 Choke Lever and Stem—P-12534 Pump Lever—P-15852 Pump Sleeve (Under Piston)—P-15022 Flange Gasket—P-8514 Gas Union.

GRAHAM PAIGE EARLY 1928 "6-10"
2⅞"x4½"—6-Cylinder
J-4441 Kit

P-15568 Air Horn Lever and Stem—P-7246 Throttle Lever—P-18911 Throttle Stop—P-20898 Fitting—P-4751 Gasket—P-15022 Gasket—P-13233 Cap Screws—P-13214 Throttle Rod—P-4 Cotter Pin.

GRAHAM PAIGE LATE 1928 "6-10"
2⅞"x4½"—6-Cylinder
J-4453 Kit

P-7540 Throttle Lever—P-18911 Thro. Stop—P-15568 Air Horn Lever and Stem—P-20897 Manifold Fitting—P-3759 Nipple—P-3760 Union Nut—P-4751 Gasket—P-15022 Gasket—P-9977 Studs—P-9882 Nuts—P-13464 Drain Pipe.

HUPMOBILE 1925, '26, '27
3⅛"x4¼"—6-Cylinder
J-4240 Kit

P-3221 Union Elbow—P-7085 Throttle Lever—P-13245 Throttle Stop—P-12534 Pump Lever and Roller—P-15852 Collar—P-15022 Gasket.

NASH 1931 "6-60"
3⅛"x4⅜"—6-Cylinder
J-4302 Kit

J-4094-F Fitting—P-4751 Gasket—P-13233 Cap Screw—P-10820 Throttle Lever—P-16603 Air Cleaner—P-15022 Gasket—P-7170 Cotter Pin—P-18911 Throttle Stop Assembly.

NASH 1926, '27 "AJAX" AND "LIGHT 6"
3"x4"—6-Cylinder
J-4448 Kit

P-8514 Union—P-7246 Throttle Lever—P-18911 Throttle Stop—P-4 Cotter Pin—P-2245 Wire 52" long—P-4751 Gasket—P-7158 Tubing 46" long—P-10443 Control—P-11097 Collar—P-15022 Gasket—P-20893 Fitting—P-13233 Cap Screws—P-14104 Cap Screws.

NASH "STD. 6" 1928
3⅛"x4"—6-Cylinder
J-4446 Kit

P-8514 Union—P-7246 Throttle Lever—P-18911 Throttle Stop—P-4751 Gasket—P-15022 Gasket—P-4 Cotter Pin—P-11097 Collar—P-17559 Air Cleaner—P-14104 Cap Screws—P-13233 Cap Screws—P-20893 Fitting.

NASH 1930 "SINGLE SIX"
3⅛"x4⅜"—6-Cylinder
J-4230 Kit

P-8514 Union—P-7246 Throttle Lever—P-18911 Throttle Stop—P-20893 Manifold Fitting—P-4751 Gasket—P-15022 Gasket—P-4 Cotter Pin—P-14104 Cap Screw—P-15856 Air Cleaner.

NASH 1931 "960"
3⅛"x4⅜"—6-Cylinder
J-4227 Kit

P-15941 Air Horn Lever and Stem—P-16551 Throttle Lever and Stem—P-12680 Tube Holder—P-4751 Gasket—P-15022 Gasket—J-4094-F Fitting—P-13233 Cap Screws—P-17559 Air Cleaner.

OAKLAND LATE 1926, EARLY 1927, "6-54-D"
2⅞"x4¾"—6-Cylinder
J-4450 Kit

P-8514 Union—P-11231 Throttle Lever—P-18911 Throttle Stop—P-13364 Choke Lever Stop—P-16374 Air Horn Lever and Stem—P-17530 Spring—P-15022 Gasket—P-11815 Choke Wire.

OAKLAND 1927, '28 "ALL AMERICAN"
3¼"x4¼"—6-Cylinder
J-4442 Kit

P-8514 Union Elbow—P-7246 Throttle Lever—P-18911 Throttle Stop—P-12690 Loose Lever—P-4 Cotter Pin—P-8108 Choke Tube, 35" long—P-11815 Choke Wire—P-15022 Gasket—P-15856 Air Cleaner—P-16487 Loose Lever.

PAIGE LATE 1927 AND 1928 "6-45"
2⅞"x4¾"—6-Cylinder
J-4242 Kit

P-3279 Union Elbow—P-5926 Throttle Lever—P-13245 Throttle Stop P-15852 Collar—P-12534 Pump Lever—P-15568 Air Horn Lever and Stem—P-20894 Manifold Fitting—P-4751 Gasket—P-15022 Gasket—P-5878 Studs—P-3187 Nuts—P-8737 Ball Joint—P-2290 Nut—P-1791 Lockwasher—P-12612 Rod—P-5762 Ball Joint.

THE FOLLOWING FITTING KITS ARE USED WITH A-17531 URO-1 CARBURETOR (Continued)

STUDEBAKER EARLY 1927 "DICTATOR" AND "STANDARD 6"

3⅜"x4½"—6-Cylinder

J-4234 Kit

P-6120 Throttle Lever—P-18911 Throttle Stop—P-15568 Air Horn Lever and Stem—P-15022 Gasket—P-79 Cotter Pin.

WILLYS 1929-30 "98-B"

3¼"x3⅞"—6-Cylinder

J-4304 Kit

P-16603 Air Cleaner—P-15022 Gasket—P-6171 Wire Connector—P-7170 Cotter Pin—P-17084 Throttle Lever—P-17082 Throttle Lever with Wire Connector—P-11706 Sliding Block—P-6986 Washer—P-13245 Throttle Stop—P-12534 Pump Lever and Roller—P-15852 Collar.

WILLYS KNIGHT 1929-30 "70-B-87"

2$\frac{15}{16}$"x4⅜"—6-Cylinder

J-4303 Kit

P-16603 Air Cleaner—P-15022 Gasket—P-7170 Cotter Pin—P-6171 Wire Connector—P-10032 Gas. Line—P-17082 Throttle Lever with Wire Connector—P-17084 Throttle Lever—P-8515 Union Elbow—P-15568 Choke Lever and Stem—P-3760 Coupling Nuts—P-18911 Throttle Stop Assembly.

WILLYS 1931 MODEL "98-D-97"
WILLYS OVERLAND 1932-33 MODEL "6-90"

3¼"x3⅞"—6-Cylinder

J-4301 Kit

P-15022 Gasket—P-16603 Air Cleaner—P-15217 Union Elbow—P-7170 Cotter Pin—P-6171 Wire Conn. and Screw—P-11706 Sliding Block—P-15852 Washer—P-13828 Bushing—P-17084 Throttle Lever—P-17082 Throttle Lever with Wire Connector—P-6986 Washer—P-13245 Throttle Stop—P-12534 Pump Lever.

UNIVERSAL CARBURETOR REPLACEMENT KITS

PARTS AND SETTINGS EXCEPTIONS MODELS URO-1 STANDARD CARBURETORS (Continued)

UNIVERSAL CARBURETOR REPLACEMENT KITS

A-17541 URO-1 Carburetor (Code No 1-6)

Parts Exception Model URO-1 Standard Carburetors

Std Part No.	Special Part No. Used on Above Carburetor	
P-285	Omitted	
P-1693	Omitted	
P-6058 P-20288	P-15389	Choke Lever and Stem
P-7287	Omitted	
P-14084	Omitted	
P-15347	Omitted	
P-16487	Omitted	
P-17187	Omitted	
P-20289	Omitted	

THE FOLLOWING FITTING KITS ARE USED WITH THE ABOVE CARBURETOR

CHANDLER 1925 MODEL "65"

3⅛ x4¼"—6-Cylinder

J-4233 Kit

P-3222 Union—P-11783 Throttle Lever—P-13245 Throttle Stop—P-12534 Pump Lever and Roller—P-15852 Collar—P-79 Cotter Pin—P-15022 Gasket

CHANDLER "65" 1928

3⅛"x4¼"—6-Cylinder

J-4232 Kit

P-3221 Union—P-7256 Throttle Lever—P-18911 Throttle Stop—P-15568 Air Horn Lever and Stem—P-4 Cotter Pin—P-2290 Nut—P-8737 Ball Joint—P-9803 Throttle Rod—P-15022 Gasket

CHANDLER AND CLEVELAND 1925, '26, '27 LIGHT SIX AND "31"

2⅞' and 3"x4¼"—6-Cylinder

J-4231 Kit

P-3221 Union Elbow—P-11783 Throttle Lever—P-18911 Throttle Stop—P-15568 Air Horn Lever and Stem—P-15022 Gasket—P-3316 Cap Screws—P-2592 Choke Tube 36 long—P-2245 Choke Wire, 50" long

CHRYSLER "60" AND "62"—1926, '27

3"x4¼"—6-Cylinder

J-4235 Kit

P-6611 Throttle Lever—P-18911 Throttle Stop—P-15568 Air Horn Lever and Stem—P-15022 Gasket—P-9882 Nuts—P-11826 Studs

CHRYSLER 1928, '29 MODEL 50, 52 AND 58
PLYMOUTH 1927, '28, '29

3⅞ x 4⅛ —4 Cyl Engine

J-4773 Kit

P-18911 Throttle Stop—P-11119 Throttle Lever—P-11826 Studs—P-9882 Nuts—P-15022 Gasket—P-8514 Elbow Union—P-13466 Elbow Union

CHRYSLER 1930 CJ
DODGE 1930 DD-6
DE SOTO 1930 CK

J-4316 Kit

P-16603 Air Cleaner—P-15022 Flange Gasket—P-15338 Gas Line—P-7833 Throttle Lever—P-7170 Cotter Pin—P-3220 S A E Coupling Nuts—P-18911 Throttle Stop Assembly

DE SOTO 1928 MODEL "K"

3 x4⅛"—6-Cylinder

J-4275 Kit

P-20851 Throttle Lever and Stem—P-15022 Gasket

DE SOTO 1930

3"x4⅛"—6-Cylinder

J-4319 Kit

P-16603 Air Cleaner—P-15022 Flange Gasket—P-7170 Cotter Pin—P-7833 Throttle Lever—P-18911 Throttle Stop Assembly

DURANT 1928-29 MODELS 4, 55, 65

3⅜" x 4¼ —4-Cyl Cont W-5
2⅞' x 4¾"—6-Cyl Cont 15L
2¾" x 4¾ —6-Cyl Cont 14L

J-4772 Kit

P-18911 Throttle Stop—P-13237 Throttle Lever—P-13024 Throttle Lever—P-15568 Choke Lever and Stem—P-3759 Union—P-15022 Flange Gasket—P-79 Cotter Pin—P-6068 Washer—P-15856 Air Cleaner—P-15935 Pump Sleeve (Under Piston)

DURANT 1929 60 AND D-60

2⅞"x4¾ —6-Cylinder

J-4244 Kit

P-3761 Union—P-11073 Throttle Lever—P-18911 Throttle Stop—P-14575 Extra Throttle Lever—P-15568 Air Horn Lever and Stem—P-15022 Gasket—P-9882 Nuts—P-11826 Studs

DURANT 1930 "407"

3⅞"x4¼"—4-Cylinder

J-4443 Kit

P-14751 Throttle Lever—P-18911 Throttle Stop—P-15022 Gasket—P-15856 Air Cleaner—P-79 Cotter Pin

ERSKINE 1927-28 MODEL "50"

2⅝"x2¾"x4½"—6-Cylinder Eng

J-4472 Kit

P-8515 Elbow Union—P-15568 Choke Lever and Stem—P-11969 Choke Tube Holder—P-8217 Blank Throttle Lever—P-5744 Loose Lever—P-16487 Loose Lever Stop—P-13245 Throttle Stop—P-15852 Pump Lever Collar—P-12534 Pump Lever and Roller—P-15022 Gasket

FORD 1928-31 MODEL "A"

3⅞"x4¼"—4-Cylinder

J-4317 Kit

P-15022 Flange Gasket—P-7160 Choke Control—P-16606 Gas Union—P-3260 Gasket—P-18910 Throttle Lever Assembly—P-18911 Throttle Stop Assembly

FORD 1932 MODEL "B"

3⅞"x4¼ —4-Cylinder

J-4318 Kit

P-16603 Air Cleaner—P-15022 Flange Gasket—P-8514 Union Elbow—P-17885 Choke Control—P-14085 Gas Line—P-18910 Throttle Lever Assembly—P-3760 Coupling Nuts—P-17888 Wedge—P-17889 Comp Nut—P-18911 Throttle Stop Assembly

FRANKLIN 1925 TO '27, 10B, 11, 11A

3¼" x 4"—6-Cyl Engine

J-4771 Kit

P-15935 Pump Sleeve (Under Piston)—P-5845 Throttle Lever—P-9389 Throttle Lever—P-18911 Throttle Stop—P-15568 Choke Lever and Stem—P-10078 Union—P-15022 Flange Gasket

JEWETT 1926 "NEW DAY"

2¾"x4¾"—6-Cylinder

J-4237 Kit

P-3221 Union Elbow—P-10974 Throttle Lever—P-18911 Throttle Stop—P-7196 Extra Throttle Lever—P-15568 Air Horn Lever and Stem—P-20891 Manifold Fitting—P-3316 Cap Screw—P-4751 Gasket—P-10976 Throttle Rod—P-15022 Gasket

MOON 1927, '28 "60" AND "62"

2⅞"x4¾' —6-Cylinder

J-4236 Kit

P-8514 Union Elbow—P-15570 Throttle Lever and Stem—P-13017 Extra Throttle Lever—P-15568 Air Horn Lever and Stem—P-15022 Gasket—P-14086 Gas Line

OLDSMOBILE 1924, '25, '26 30-B-C-D

2¾"x4¾"—6-Cylinder

J-4449 Kit

P-4557 Union—P-12534 Pump Lever—P-7246 Throttle Lever—P-13364 Air Horn Lever Stop—P-17530 Choke Return Spring—P-16374 Air Horn Lever and Stem—P-13245 Throttle Stop—P-2245 Choke Wire, 14' long—P-8954 Gas Line—P-10773 Throttle Lever—P-15022 Gasket

THE FOLLOWING FITTING KITS ARE USED WITH CARBURETOR A-17541 URO-1 CARBURETOR (Continued)

OLDSMOBILE 1928-30 MODEL F
3 3/16"x4⅛"—6-Cylinder
J-4320 Kit

P-20839 Tube—P-20840 Cotter Pin—P-15022 Flange Gasket—P-20838 Air Cleaner—P-7170 Cotter Pin—P-8514 Elbow Union—P-14898 Flange Studs—P-16120 Hex. Nuts—P-6592 Lockwashers—P-3759 Union Nipple—P-2714 Street Elbow—P-7833 Throttle Lever—P-14085 Gas. Line—P-3760 S.A.E. Coupling Nuts—P-13245 Throttle Stop—P-12534 Pump Lever and Roller—P-15852 Collar.

PLYMOUTH 1930
3⅝"x4¾"—4-Cylinder
J-4321 Kit

P-15022 Flange Gasket—P-16603 Air Cleaner—P-7170 Cotter Pin—P-14085 Gas. Line—P-5878 Flange Studs—P-9882 Nuts—P-16550 Air Horn Elbow—P-7833 Throttle Lever—P-3760 S.A.E. Coupling Nuts—P-18911 Throttle Stop Assembly—P-3759 Union; P-8514 Union Elbow.

PONTIAC 1926-'27
3¼"x3¾"—6-Cylinder
J-4150 Kit

P-8514 Union—P-13848 Throttle Lever—P-12680 Tube Holder—P-16374 Air Horn Lever and Stem—P-15022 Gasket—P-11815 Wire—P-8108 Tubing, 35" long—P-18911 Throttle Stop.

PONTIAC 1928
3¼"x3¾"—6-Cylinder
J-4149 Kit

P-8514 Union Elbow—P-16388 Throttle Lever and Stem—P-12680 Tube Holder—P-16374 Air Horn Lever and Stem—P-79 Cotter Pin—P-11815 Choke Wire—P-15022 Gasket—P-15856 Air Cleaner.

STAR "4" 1928
3⅜"x4¼"—4-Cylinder
J-4241 Kit

P-8514 Union—P-15570 Throttle Lever and Stem—P-13024 Extra Throttle Lever—P-15568 Air Horn Lever and Stem—P-4 Cotter Pin-P-6068 Washer—P-15022 Gasket.

STEWART 1929, MODEL "30"
3¾" x 4½" 4-Cyl. Lyc. AF Eng.
J-4626 Kit

P-4557 Union Elbow—2-P-14898 Studs—P-7085 Throttle Lever— P-14899 Loose Lever—P-16487 Loose Lever Stop—P-14070 Tube Holder—P-15568 Air Horn Lever and Stem—P-18911 Throttle Stop—-P-15022 Gasket.

STEWART 1931, MODEL "30-X & 40-X"
3" x 4¾" 6-Cyl. Lyc. WTG Eng.
J-4627 Kit

P-3221 Union Elbow—2-P-14898 Studs—P-7085 Throttle Lever- -P-14899 Loose Lever—P-16487 Loose Lever Stop—P-15568 Air Horn Lever and Stem—P-13245 Throttle Stop—P-12534 Pump Lever—P-15852 Collar.

STEWART 1930, MODEL "30-X"
2⅞" x 4¾" 6-Cyl. Lyc. WRG. Eng.
J-4628 Kit

P-3279 Union Nipple—2-P-14898 Studs—P-7085 Throttle Lever--P-14899 Loose Lever—P-16487 Loose Lever Stop—P-14070 Tube Holder—P-15568 Air Horn Lever and Stem—P-18911 Throttle Stop—P-15022 Gasket.

WHIPPET 1926 TO 1928 "96"
3⅛"x4"—4 Cylinder
J-4454 Kit

P-8514 Union—P-3761 Drain Boss Union—P-13266 Throttle Lever—P-18911 Throttle Stop—P-15568 Air Horn Lever and Stem—P-79 Cotter Pin—P-3316 Cap Screws—P-7991 Collar—P-15022 Gasket.

WHIPPET 1927 "93-A"
3"x4"—6-Cylinder
J-4445 Kit

P-8514 Union—P-12232 Throttle Lever—P-13245 Throttle Stop—P-12234 Extra Throttle Lever—P-12534 Pump Lever—P-15852 Collar—P-7991 Collar—P-15022 Gasket—P-79 Cotter Pins—P-5878 Studs—P-9882 Nuts.

WHIPPET "98" 1928
3⅛"x3⅞"—6-Cylinder
J-4451 Kit

P-8514 Union Elbow—P-12232 Throttle Lever—P-18911 Throttle Stop—P-12234 Extra Throttle Lever—P-15022 Gasket—P-7991 Collar—P-79 Cotter Pin—P-9882 Hex. Nuts—P-14309 Throttle Stem.

WHIPPET 1929 96-A
3⅛"x4¾"—4-Cylinder
J-4445 Kit

P-8514 Union Elbow—P-14236 Throttle Lever—P-18911 Throttle Stop—P-3761 Union—P-15568 Air Horn Lever and Stem—P-4 Cotter Pin—P-15022 Gasket—P-13464 Drain Pipe.

WHIPPET 1929 "98-A"
3⅛"x3⅞"—6-Cylinder
J-4452 Kit

P-8515 Union—P-11968 Throttle Lever—P-18911 Throttle Stop—P-14084 Loose Lever—P-16487 Loose Lever Stop—P-12677 Tube Holder—P-17233 Air Horn Lever and Stem—P-5878 Studs—P-9882 Nuts—P-15022 Gasket—P-15856 Air Cleaner—P-16550 Air Cleaner Elbow.

WILLYS KNIGHT 1926, '27—"70 AND 70-A"
2 15/16"x4⅜"—6-Cylinder
J-4444 Kit

P-8514 Union Elbow—P-6120 Throttle Lever—P-18911 Throttle Stop—P-7539 Extra Throttle Lever—P-8909 Extra Throttle Lever—P-15568 Air Horn Lever and Stem—P-79 Cotter Pins—P-7991 Collars P-13859 Oil Clutch Control Rod—P-15856 Air Cleaner—P-15022 Gasket.

WILLYS KNIGHT 1928 "56"
2 15/16"x3⅞"—6-Cylinder
J-4238 Kit

P-8515 Elbow Union—P-13719 Throttle Lever—P-18911 Throttle Stop—P-15568 Air Horn Lever and Stem—P-7991 Collar—P-15022 Gasket—P-15856 Air Cleaner.

WILLYS KNIGHT 1928 "70-A"
2 15/16"x4⅜"—6-Cylinder
J-4239 Kit

P-8515 Elbow Union—P-7085 Throttle Lever—P-18911 Throttle Stop—P-12234 Extra Throttle Lever—P-15022 Gasket—P-79 Cotter Pin.

UNIVERSAL CARBURETOR REPLACEMENT KITS

PARTS AND SETTINGS EXCEPTIONS MODEL UR-2 STANDARD CARBURETOR (Continued)

UNIVERSAL CARBURETOR REPLACEMENT KITS

A-17662 UR-2 Carburetor (Code No. 1-8)

Parts Exception Model UR-2 Standard Carburetors

Std. Part No.	Special Part	No. Used on Above Carburetor
P-285	Omitted	
P-1693	Omitted	
P-6058 P-20288	P-15389	Choke Lever and Stem
P-7287	Omitted	
P-14084	Omitted	
P-15347	Omitted	
P-15859	P-15870	No. 68 Pump Gas Reducer
P-16487	Omitted	
P-17187	Omitted	
P-19470	P-19470	Thro. Valve Body with No. 56-70 Idle Holes, Flange drilled 13/32"
P-20289	Omitted	

THE FOLLOWING FITTING KITS ARE USED WITH THE ABOVE CARBURETOR

The following Fitting Kits are used with the above carburetor:

AUBURN 1929-30 MODELS 6-80—6-85

2⅞"x4¾"—6-Cylinder Lyc. WS Eng.

J-4473 Kit

P-3222 Elbow Union—**P-17539** Throttle Lever and Stem—**P-7323** Loose Lever—**P-16487** Loose Lever Stop—**P-4752** Gasket—**P-79** Cotter Pin.

CHANDLER 1927 "ROYAL"

3¼" x 4¼"—6-Cyl. Engine

J-4768 Kit

P-7085 Throttle Lever—**P-13245** Throttle Stop—**P-15568** Choke Lever and Stem—**P-12534** Pump Lever—**P-15852** Collar (Between Pump Lever and Body)—**P-4752** Gasket.

CHANDLER 1927-28 "BIG SIX"

3½" x 5"—6-Cyl. Engine

J-4769 Kit

P-11091 Throttle Lever—**P-10447** Loose Lever—**P-16487** Loose Lever Stop—**P-13245** Throttle Stop—**P-12534** Pump Lever—**P-15852** Collar (Between Pump Lever and Body)—**P-4752** Gasket—**P-2714** Street Elbow—**P-3279** Union.

DE VAUX 1931-32

3⅜"x4"—6-Cylinder

J-4339 Kit

P-7833 Throttle Lever—**P-15561** Loose Lever—**P-16487** Loose Lever Stop—**P-6893** Throttle Stop—**P-15852** Collar—**P-12534** Pump Lever with Roller—**P-4752** Gasket—**P-17326** Air Cleaner.

ESSEX 1931 CHALLENGER MODEL

2¾"x4½"—6-Cylinder

J-4340 Kit

P-7833 Throttle Lever—**P-9428** Throttle Lever—**P-12534** Pump Lever with Roller—**P-15852** Pump Collar—**P-13245** Throttle Stop—**J-4128-F** Fitting—**P-4752** Gasket—**P-15367** Gasket—**P-15349** Taper Plugs—**P-16042** Thro. Rod—**P-16043** Hot Spot Rod—**P-11250** Washer—**P-6068** Washers—**P-7170** Cotter Pin—**P-16603** Air Cleaner—**P-8514** S.A.E. 90° Elbow.

GRAHAM 1930 STANDARD SIX

3⅛"x4½"—6-Cylinder

J-4341 Kit

P-5845 Throttle Lever—**P-15568** Choke Lever and Stem—**P-18911** Throttle Stop—**P-3221** Union Elbow—**P-4752** Gasket—**P-7170** Cotter Pin—**P-16603** Air Cleaner.

GRAHAM 1931—STANDARD SIX—SPECIAL SIX

3¼"x4½"—6-Cylinder

J-4338 Kit

P-7833 Throttle Lever—**P-15568** Choke Lever and Stem—**P-18911** Throttle Stop Assembly—**P-3221** Union Elbow—**P-16389** Air Cleaner—**P-16550** Air Horn Elbow—**P-8714** Throttle Rod, 6¼" long—**P-5762** Ball Joint—**P-13470** Clamp Lever—**P-4752** Gasket—**P-7170** Cotter Pin.

GRAHAM 1931-32 PROSPERITY SIX

3⅛"x4¼"—6-Cylinder

J-4337 Kit

P-17477 Throttle Lever—**P-15568** Choke Lever and Stem—**P-18911** Throttle Stop Assembly—**P-9961** Sliding Block—**P-6986** Washers—**P-3221** Union Elbow—**P-16603** Air Cleaner—**P-4752** Gasket—**P-7170** Cotter Pins.

GRAHAM 1932 GREATER SIX

3¼"x4½"—6-Cylinder

J-4336 Kit

P-7679 Throttle Lever—**P-15568** Choke Lever and Stem—**P-18911** Throttle Stop Assembly—**P-13150** Ball Joint Connector—**P-3279** Union—**P-4752** Gasket—**P-18168** Adapter—**P-3220** Coupling Nut S.A.E., 5/16"—**P-16472** Coupling Nut—**P-15577** Tubing, 5/16", 24" long.

HUDSON 1930-31 GREAT AND GREATER EIGHT

2¾"—3⅞"x4½"—8-Cylinder

J-4335 Kit

P-7833 Throttle Lever—**P-9428** Throttle Lever—**P-12837** Tube Holder **P-17306** Air Horn Lever and Stem—**P-15374** Venturi 1⅛"—**P-15405** By-Pass Jet .044"—**P-15836** Pump Reducer No. 62—**P-13245** Throttle Stop—**P-12534** Pump Lever and Roller—**P-15852** Collar—**P-3221** Union Elbow—**J-4177-F** Manifold Fitting—**P-16389** Air Cleaner—**P-4752** Gasket—**P-16550** Air Horn Elbow—**P-5364** Lockwashers—**P-7428** Nuts—**P-17125** Heat Control Rod—**P-7170** Cotter Pins—**P-3220** Coupling Nuts—**P-15577** Tubing, 5/16"-24" long.

MARMON 1930 MODEL "69"

2 13/16"x4¼"—8-Cylinder

J-4476 Kit

P-3222 Elbow Union—**P-15568** Choke Lever and Stem—**P-11969** Choke Tube Holder—**P-5934** Throttle Lever—**P-13245** **Throttle Stop**—**P-15852** Pump Lever Collar—**P-12534** Pump Lever and Roller—**P-4752** Gasket—**P-16603** Air Cleaner—**P-79** Cotter Pin.

MARQUETTE 1929-30

3⅛"x4⅝"—6-Cylinder

J-4332 Kit

P-5845 Throttle Lever—**P-18911** Throttle Stop—**P-8514** Union Elbow—**P-16603** Air Cleaner—**P-4752** Gasket—**P-13470** Throttle Lever—**P-13459** Throttle Rod—**P-3759** Union Nipple—**P-7428** Hex. Nuts—**J-4069-F** Manifold Fitting—**P-14085** Tubing, ¼"-16"—**P-3760** Coupling Nuts.

NASH 1930 MODEL TWIN IGNITION

3⅜"x4½"—6-Cylinder

J-4477 Kit

P-3221 Union Elbow—**P-12604** Choke Tube Holder—**P-17540** Choke Lever and Stem—**P-13312** Throttle Lever—**P-13245** Throttle Stop—**P-15852** Pump Lever Collar—**P-12534** Pump Lever and Roller—**J-4103-F** Fitting—**P-13704** Rod—**P-16617** Lever—**P-4** Cotter Pin—**P-11145** Ball Joint—**P-4752** Gasket—**P-15617** Gasket—**P-3761** Union—**P-13464** Drain Pipe—**P-15856** Air Cleaner.

OAKLAND 1929 ALL AMERICAN

3⅜"x4½"—6-Cylinder

J-4342 Kit

P-7833 Throttle Lever—**P-16392** Loose Throttle Lever—**P-17290** Throttle Stop—**P-2942** Fill. Head Screw—**P-1693** Lockwasher—**P-17294** Washer—**P-15347** Pump Cam—**P-8514** Union Elbow—**P-16603** Air Cleaner—**P-4752** Gasket—**P-8108** Choke Tubing, 40" long—**P-7170** Cotter Pin.

PONTIAC 1929-30-31

3 5/16"x3⅞"—6-Cylinder

J-4334 Kit

P-7833 Throttle Lever—**P-16392** Loose Throttle Lever—**P-15935** Pump Sleeve—**P-17290** Throttle Stop—**P-8514** Union Elbow—**P-2942** Fill. Head Screw—**P-17294** Washer—**P-1693** Lockwasher—**P-15347** Pump Cam—**P-16389** Air Cleaner—**P-7170** Cotter Pin—**P-4752** Gasket.

PONTIAC 1932

3 5/16"x3⅞"—8-Cylinder

J-4333 Kit

P-17528 Throttle Lever—**P-16392** Loose Throttle Lever—**P-12680** Choke Tube Holder—**P-16374** Choke Lever and Stem—**P-17530** Choke Lever Return Spring—**P-15935** Accelerating Pump Sleeve—**P-17290** Throttle Stop—**P-2942** Fill. Head Screw—**P-1693** Lockwasher—**P-17294** Washer—**P-15347** Pump Cam—**P-8514** Union Elbow—**P-6254** Tube—**P-16465** Gasket—**P-17527** Heat Control Rod—**P-7170** Cotter Pins:

UNIVERSAL CARBURETOR REPLACEMENT KITS

PARTS AND SETTINGS EXCEPTIONS MODEL UR-2 STANDARD CARBURETOR (Continued)

UNIVERSAL CARBURETOR REPLACEMENT KITS

A-17672 UR-2 Carburetor (Code No. 1-9)
Parts Exception Model UR-2 Standard Carburetors

Std. Part No.	Special Part	Used on Above Model Carburetor
P-285	Omitted	
P-1693	Omitted	
P-6058 P-20288	P-15389	Choke Lever and Stem
P-7287	Omitted	
P-14084	Omitted	
P-15347	Omitted	
P-16487	Omitted	
P-17187	Omitted	
P-20289	Omitted	

THE FOLLOWING FITTING KITS ARE USED WITH THE ABOVE CARBURETOR

CHRYSLER 1931 "CM"
DODGE 1931 "DH"
DE SOTO 1931
3¼"x4¼"—6-Cylinder
J-4356 Kit

P-7194 Throttle Lever—P-18911 Throttle Stop—P-16603 Air Cleaner—P-4752 Gasket—P-7170 Cotter Pin—P-5558 Hex. Nuts—P-5364 Lockwashers—P-15418 Studs.

CHRYSLER 1932
DE SOTO 1932
DODGE 1932
3¼"x4½"—6-Cylinder
J-4355 Kit

P-7194 Throttle Lever—P-18911 Throttle Stop—P-3221 Union Elbow P-7170 Cotter Pin—P-15418 Studs—P-4752 Gasket—P-17266 Throttle Rod—P-17589 Tubing, 5/16"-11" long—P-3220 Coupling Nut—P-16472 Coupling Nut.

DURANT 1929 MODEL "70"
3⅜"x4⅝"—6-Cylinder
J-4470 Kit

P-3222 Elbow Union—P-15594 Throttle Lever—P-18911 Throttle Stop—P-13024 Throttle Lever—P-285 Screw—J-3920 Fitting—P-6385 Studs—P-11083 Nuts—P-4752 Gasket—P-79 Cotter Pin.

DURANT 1930 MODEL "617"
3⅜"x4⅝"—6-Cylinder
J-4474 Kit

P-15568 Choke Lever and Stem—P-11969 Choke Tube Holder—P-17539 Throttle Lever and Stem—P-14382 Loose Lever—P-16487 Loose Lever Stop—P-4752 Gasket—P-79 Cotter Pin—P-15856 Air Cleaner.

DURANT 1931 MODELS 612-614-619
3¼"x4"—6-Cylinder
J-4471 Kit

P-14751 Throttle Lever—P-79 Cotter Pin—P-4752 Gasket—P-15856 Air Cleaner—P-18911 Throttle Stop.

DODGE 1932
3¼"x4⅝"—6-Cylinder
J-4354 Kit (Replacing Carter Carburetor)

P-7194 Throttle Lever—P-18911 Throttle Stop—P-16389 Air Cleaner—P-4752 Gasket—P-7170 Cotter Pin—P-15418 Studs—P-5364 Lockwashers—P-5558 Hex. Nuts.

1930-31-32 WILLYS EIGHT "8-80"
1930-31-32 WILLYS OVERLAND MODEL "8-88"
3¼"x4"—8-Cylinder
J-4352 Kit

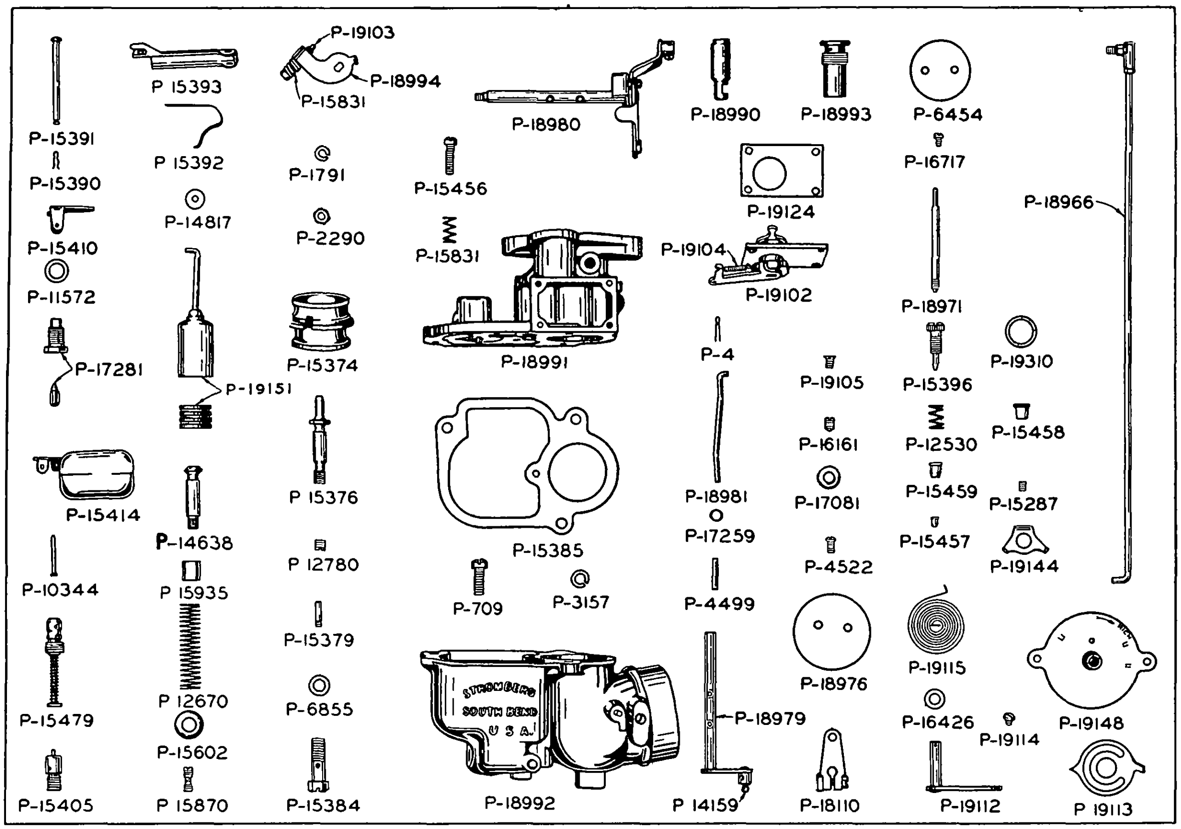
P-15559 Throttle Lever—P-15561 Loose Throttle Lever—P-16487 Loose Lever Stop—P-13245 Throttle Stop—P-12534 Pump Lever and Roller—P-15852 Collar—P-4752 Gasket—P-7170 Cotter Pin—P-15418 Studs—P-5558 Nuts—P-11706 Sldiing Block.

WILLYS-KNIGHT 1927-28-29 MODEL "66-A"
3⅜"x4¾"—6-Cylinder
J-4475 Kit

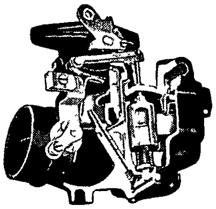
P-3222 Elbow Union—P-13266 Throttle Lever—P-18911 Throttle Stop J-3786-F Fitting—P-4752 Gasket—P-12700 Studs—P-5364 Lockwasher—P-11083 Nuts—P-8715 Throttle Rod, 21" long—P-15856 Air Cleaner—P-79 Cotter Pin

WILLYS-KNIGHT "66-D" 1931
3⅜"x4¾"—6-Cylinder
J-4353 Kit

P-7194 Throttle Lever—P-17082 Throttle Lever—P-18911 Throttle Stop—P-3221 Union Elbow—J-4064-F Manifold Fitting—P-16389 Air Cleaner—P-16550 Air Horn Elbow—P-7170 Cotter Pin—P-1671 Wire Connector—P-2974 Cap Screws—P-3279 Union Nipple—P-4752 Gasket—P-3220 Coupling Nut S.A.E., 5/16"—P-15577 Tubing, 5/16"-24" long—P-15389 Choke Lever and Stem.



UR-23
N . A-17592
1¼' CARB SAE



Notes and References

Car models having this carburetor with parts exceptions therefor are shown on back of this page

†These parts not illustrated

‡Indicates Sub assembly part

NOTE—P-18990 Changed to P-19981
P-18993 Changed to P-19980

PARTS LIST STROMBERG MODEL "UR-23" CARBURETOR (as used on Studebaker Dictator "A" 1934)

Part No	Name	
P-4	Fast Idle Rod Cotter Pin	
P-4	Thermostat Washer Cotter Pin	
P-709	Main Body Attaching Screw	
P-1791	Fast Idle Stop Lock Nut Lockwasher	
P-2290	Fast Idle Stop Lock Nut	
P-3157	Main Body Attaching Screw Lockwasher	
P-4499	Choke Stem Slot Pin	
P-4522	Choke Valve Attach Screw	
*P-6454	Throttle Valve	(VAR)
P 6855	Metering Jet Gasket	
P 6855	Main Discharge Jet Gasket	
P-10344	Float Fulcrum Pin	
P-11572	Float Needle Valve Seat Gaskets	
P-12530	Idling Needle Valve Spring	
P-12670	Pump Piston Spring	
P-12780	Idling Discharge Channel Plug	
P-14159	Fast Idle Rod Set Screw	
P-14638	Pump Piston Valve	
P-14817	Pump Piston Link Washer	
P-15287	Thermostat Lever Stop Set Screw	
*P-15374	Large Venturi Tube	(VAR)
*P-15376	Main Discharge Jet	(VAR)
*P-15379	High Speed Bleeder	(VAR)
*P-15384	Metering Jet	(VAR)
P-15385	Main Body Gasket	
P-15390	Pump Fulcrum Cotter Pin	
P-15391	Pump Fulcrum Pin	
P-15392	Pump Lever Spring	
P-15393	Pump Lever	
P-15396	Idling Needle Valve	
*P-15405	By-Pass Jet	(VAR)
P-15410	Float Hanger	
P-15411	Float Hanger Pin	
P-15414	Float with Lever	
P-15456	Throttle Stop Screw	
P-15457	High Speed Bleeder Channel Plug	
P-15458	Economizer Channel Plug	
P-15459	Idle Channel Plug	
P-15479	Vacuum Economizer (Complete)	
P-15602	Pump Piston Spring Washer	
P-15831	Throttle Stop Screw Spring	
*P-15870	Pump Valve Gas Reducer	(VAR)
P 15935	Pump Piston Valve Sleeve	

Part No	Name	
P-16161	Choke Stem Collar Set Screw	
P-16426	Thermostat Washer	
P-16717	Throttle Valve Screw	
P-17081	Choke Stem Collar	
P-17259	Choke Lever Stem Bushing	
P-17281	Float Needle Valve and Seat (Complete)	
P-18110	Choke Lever with Screw	
‡P-18300	Choke Lever Clamp Screw	
‡P-18299	Choke Lever Clamp Screw Nut	
†P-18965	Thermostat Unit (Complete)	
P-18966	Thermostat Automatic Choke Rod	
P-18970	Automatic Choke Unit Dowel Pin	
P-18970	Choke Valve Stop Pin	
P-18971	Idle Tube	
P-18976	Choke Valve	
P-18979	Choke Lever and Stem (Complete)	
P-18980	Throttle Lever with Stem	
‡P-285	Pump Adj Set Screw	
‡P-1693	Pump Adj Set Screw Lockwasher	
‡P-13046	Loose Lever Wire Conn Clamp Screw	
P-18981	Fast Idle Rod	
*P-18991	Throttle Valve Body	(VAR)
P-18992	Main Body	
P 18994	Fast Idle Adj Stop	
‡P-19103	Fast Idle Stop Adj Screw	
‡P 15831	Fast Idle Stop Adj Screw Spring	
P-19102	Automatic Choke Unit	
‡P-19104	Fast Idle Lever Return Spring	
P-19105	Automatic Choke Unit Attach Screw	
P 19112	Thermostat Lever and Stem	
P-19113	Thermostat Bracket	
P-19114	Thermostat Bracket Attach Screw	
P-19115	Thermostat	
P-19124	Automatic Choke Unit Gasket	
P 19144	Thermostat Lever Stop	
P-19148	Thermostat Cover	
P-19151	Pump Piston and Sleeve (Complete)	
P-19310	Automatic Choke Unit Piston Sleeve Gasket	
P-19980	Automatic Choke Unit Piston Sleeve	
P-19981	Automatic Choke Unit Piston Sleeve	
†P-19982	Automatic Choke Unit Pin	
†P-19983	Automatic Choke Unit Lead Ball	

J 4367 G UR 23 Complete Gasket Set

*NOTE On parts marked (VAR) size must be specified when ordering

STANDARD SPECIFICATION

STUDEBAKER "DICTATOR A" 1934 (181249)

3¼" x 4⅛" 6 Cyl.

A-17592 UR-23 Carburetor (Code No 6-2)

P-6454	20° Throttle Valve
P-15374	1" Venturi
P-15376	No 32 Main Disch Jet
P-15379	No 65 H S Bleeder
P-15384	054" Meter Jet
P-15405	036" By Pass Jet
P-15870	No 68 Pump Reducer
P-18971	Idle Tube No 68 Feed & No 62 Top Hole
P-18991	Thro Valve Body with No 56-68 Idle Holes and Flange Drilled 13/32"

STANDARD SETTINGS FOR UR-23 CARBURETORS

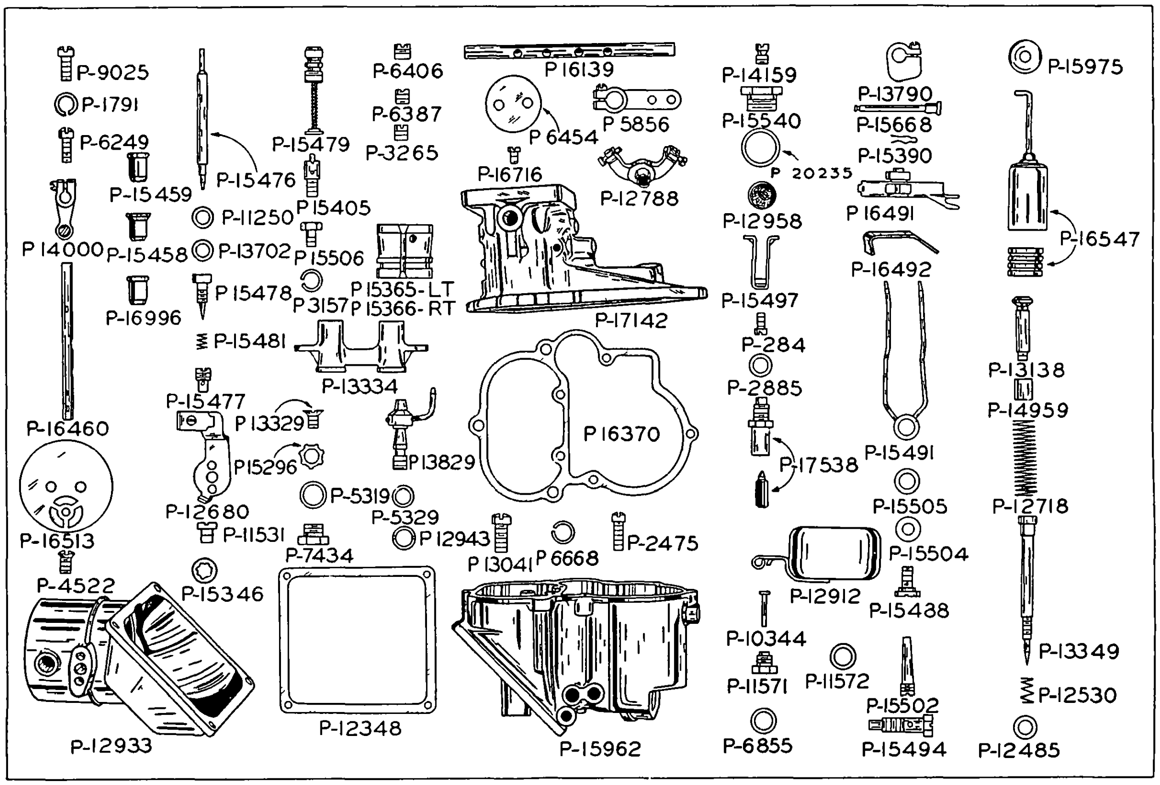
Throttle Valve Location Lower lip of Thro Valve flush, plus or minus 004 with top of lower idle holes

Pump Capacity 7 to 10 CC per 10 strokes with middle adjustment on cam

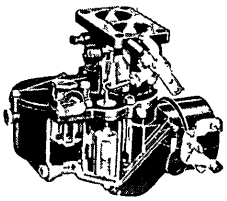
Fast Idle Setting Adjust Foot Idle Screw to a No 66 drill Throttle opening with screw on second Idle Step on Cam

Thermostat Setting Unhook Thermostat and at 70° F (See Note), hook on P-19113 to be in contact with hook on Thermostat without tension (Stamped 0 in line with pointer and locked)

NOTE In determining 70° F Thermostat Setting ('0" Stamping) if temperature in room is below 70° F, turn pointer in rich direction 1 notch for each 5°, and if above 70° F, turn pointer in lean direction 1 notch for each 5° (Allow thermostat to cool or warm so as to be same tempreature as room)



UUR-2
N . A-15212
1¼" DUAL CARB.



Notes and References:

Car models having this carburetor with parts exceptions therefor are shown on back of this page

†These parts not illustrated

‡Indicates Sub assembly part

PARTS LIST STROMBERG MODEL "UUR" STANDARD CARBURETOR

Part No.	Name	
P-284	Float Lever Support Screw	
P-284	Pump Cam Clamp Screw	
P-1791	Float Chamber Cover Screw Lock Washer	
P-2475	Air Horn Attaching Screws	
P-2885	Float Needle Valve Seat Gasket	
P-2885	Main Discharge Jet Gasket	
P-3157	Large Venturi Tube Set Screw Lock Washer	
P-3157	Main Body Attaching Screw Lock Washer	
P-3222	Elbow Union	
‡P-3220	Union Nut	
‡P-3221	Union Elbow	
P-3265	Economizer Feed Channel Plug	
P-4522	Choke Valve Screw	
P-5319	Main Discharge Plug Gasket	
P-5329	Main Discharge Jet Nut Gasket	
P-5856	Throttle Lever and Screw	
‡P-3199	Throttle Lever Clamp Screw	
P-6249	Float Chamber Cover Screw	
P-6387	Idle Feed Channel Plug	
P-6387	Pump Channel Plug	
P-6406	Economizer Gas Channel Plug	
P-6454	Throttle Valve	(VAR)
P-6668	Air Horn Attaching Lock Washers	
P-6855	Metering Jet Gasket	
P-7434	Main Discharge Plug	
P-9025	Float Chamber Cover Screw	
P-10344	Float Fulcrum Pin	
P-11250	Idle Tube Washer	
P-11250	Pump Lever Washer	
P-11531	Choke Tube Holder Attaching Screw	
P-11571	Float Chamber Gas Level Plug	
P-11572	Float Chamber Gas Level Plug Gasket	
P-12348	Air Horn Gasket	
P-12485	Pump Needle Valve Spring Washer	
P-12530	Pump Needle Valve Spring	
P-12680	Choke Tube Holder	
‡P-12868	Choke Tube Holder Screw	
‡P-8806	Choke Tube Holder Nut	
‡P-11561	Choke Tube Holder Clamp	
P-12718	Pump Piston Spring	
P-12788	Throttle Lever Stop with Screw	
‡P-47	Throttle Stop Clamp Screw	
‡P-2267	Throttle Stop Set Screw	
P-12912	Float with Lever	
P-12933	Air Horn	
P-12943	Main Discharge Jet Nut	
P-12958	Strainer	
P-13041	Main Body Attaching Screw	
P-13138	Pump Piston Valve	
P-13329	Small Venturi Attaching Screw	
P-13334	Small Venturi Tube	
P-13349	Pump Needle Valve	
P-13702	Idle Tube Cork Washer	

Part No	Name	
P-13790	Pump Cam with Screw	
*P-13829	Main Discharge Jet	(VAR)
P-14000	Air Horn Lever and Screw	
‡P-46	Air Horn Lever Clamp Screw	
‡P-10981	Choke Wire Clamp Screw	
P-14159	Pump Cam Set Screw	
P-14959	Pump Syringe Valve Sleeve	
P-15296	Small Venturi Tube Lock Washer	
P-15346	Choke Tube Holder Attaching Screw Lock Washer	
*P-15365	Large Venturi Tube (left)	(VAR)
*P-15366	Large Venturi Tube (right)	(VAR.)
P-15390	Pump Lever Cotter Pin	
*P-15405	By-Pass Jet	(VAR)
P-15458	Idle Air Channel Plug	
P-15459	Idle Channel Hole Plug	
P-15476	Idle Tube	
*P-15477	Idle Air Bleeder	(VAR)
P-15478	Idle Needle Valve	
P-15479	Vacuum Economizer (complete)	
P-15481	Idle Needle Valve Spring	
P-15488	Pump Discharge Tube Holder Screw	
*P-15491	Pump Discharge Tube (complete)	(VAR.)
*P-15494	Metering Jet	(VAR)
P-15497	Float Lever Support	
P-15502	Pump Extension Plug	
P-15504	Pump Discharge Tube Gasket	
P-15505	Pump Discharge Tube Gasket	
P-15506	Large Venturi Tube Set Screw	
P-15540	Strainer Plug	
P-15668	Pump Lever Fulcrum Pin	
P-15962	Main Body	
P-15975	Pump Piston Link Washer	
†P-16130	Air Horn with Valve (complete)	
P-16139	Throttle Lever Stem	
P-16370	Main Body Gasket	
P-16460	Choke Lever Stem	
P-16491	Pump Lever (complete)	
P-16492	Pump Lever Spring	
P-16513	Air Horn Valve (complete)	
‡P-15567	Air Horn Valve	
‡P-15331	Air Horn Valve Pin	
‡P-15329	Air Horn Valve Plate	
‡P-15330	Air Horn Valve Washer	
‡P-15263	Air Horn Valve Spring	
‡P-15266	Air Horn Valve Bushing	
‡P-8344	Air Horn Valve Open Washer	
P-16547	Pump Piston and Sleeve	
P-16716	Throttle Valve Screw	
P-16996	Vacuum Suction Channel Plug	
*P-17142	Throttle Valve Body	(VAR)
P-17538	Float Needle Valve and Seat	
P-20235	Strainer Plug Gasket	

J-4201-G **UUR 2** Complete Gasket Set

*NOTE On parts marked **(VAR)** size must be specified when ordering

STANDARD SPECIFICATION

A-15212 UUR-2 Carburetor (Code No 1-10)

P-6454	Throttle Valve 19°	P-15476	Idle Tube No 70 Feed Hole
P-13829	No 30 Main Disch Jet with No 70 H S Bleeder	P-15477	No 46 Idle Air Bleeder
P-15365	$1\frac{1}{32}$' Venturi (Right)	P-15491	No 65 Pump Disch Tubes
P-15366	$1\frac{1}{32}$ Venturi (Left)	P-15494	046' Meter Jet
P-15405	028' By Pass Jet	P-17142	Thro Valve Body with No 56 Top, No 58 Lower Idle Holes

STANDARD SETTINGS FOR UUR-2 CARBURETORS

Thro Valve Location Lower lip of Thro Valve to be flush, plus or minus 004 with top of lower idle hole

Pump Travel 21/32

Pump Capacity 16 to 19 CC per 10 strokes with pump adj needle open 2 turns

SPECIFICATIONS OF STANDARD EQUIPPED PASSENGER CARS AND TRUCKS PARTS AND SETTINGS EXCEPTIONS MODELS UUR-2 STANDARD CARBURETOR

CUNNINGHAM 1930-31-32-33 (21501)

3⅜" x 4½ —8 Cyl.

No A-16262—UUR-2 Carburetor

Std Part No	Special Parts Used on Above Model Car	
P-5856	P-8123	Throttle Lever
P-12680	P-12677	Choke Tube Holder
P-14000	P-14072	Choke Lever
P-15365	P-15365	Venturi Tube (Right) 1⅛"
P-15366	P-15366	Venturi Tube (Left) 1⅛
P-15494	P-15494	Metering Jet 054'
P-16130	P-16502	Air Horn (Comp)
None Shown	P-13127	Economizer Reducer No 70
None Shown	P-16554	Choke Stem Bushing

NOTE Pump Capacity 14 to 18 CC per 10 strokes Pump Needle open 1¼ turns

DUESENBERG 1935-36 MODEL "J' (J-966)

(2 Carbs Per Engine)

3¾ x 4¼'—8 Cyl

F-3856 UUR 2 Carburetor (Code No 59 6)

Std Part No	Special Part No Used on Above Model Car	
P-3278	P 5028	Elbow Union Assy
P-5856	P-21115	Throttle Lever Assy
P-15365	P-15365	1 Venturi (Right
P-15366	P-15366	1 Venturi (Left)
P-15405	P-15405	046 By Pass Jet
P-15491	P-15491	No 70 Pump Discharge Tube
P-15494	P-15494	044 Metering Jet
P-16139	P-16259	Throttle Stem
None Shown	P-13884	Throttle Loose Lever
None Shown	P-17287	Throttle Loose Lever Stop

HUPP "C" 1932-33 (76500)

3" x 4¾"—8 Cyl

No A-15332—UUR-2 Carburetor (Vac Econ Omitted) Code No 19-7)

Std Part No	Special Parts Used on Above Model Car	
P-5856	P-12815	Throttle Lever
P-13790	P-12496	Pump Cam and Screw
P-13829	P-16455	Main Discharge Jet No 28 with No 68 High Speed Bleeder
P-15491	P-15491	Pump Discharge Tubes No 70
P-15494	P-15494	Metering Jet 046'
P-15540	P-16452	Strainer Plug
P-16130	P-14608	Air Horn (Comp)
P-12933	P-15009	Air Horn
P-14000	P-13834	Choke Lever
P-16460	P-13824	Choke Lever Stem
P-16491	P-16263	Pump Lever
P-16547	P-14494	Piston and Sleeve
P-17142	P-16451	Throttle Valve Body with No 58 lower No 56 top idle holes
None Shown	P-285	Choke Valve Spring Clamp Screw
None Shown	P-13811	Choke Valve Spring
None Shown	P-13813	Choke Valve Spring Block
None Shown	P-13825	Choke Valve Spring Washer
None Shown	P-13844	Choke Lever Stem & Washer
None Shown	P-13828	Choke Stem Bushing
None Shown	P-14607	Choke Lever Stop
None Shown	P-3647	Throttle Lever Pin

NOTE Pump Travel ½

NOTE Thro Valve Location Flush plus or minus 002

NOTE Pump Capacity 14 to 17 CC per 10 strokes Pump Needle open 1¼ turns

HUPP "F" 1932-33 (77875)

$2\frac{15}{16}$" x 4⅞"—8 Cyl

No A 16072—UUR 2 Carburetor (Vac Econ Omitted) (Code No 19-5)

Std Part No	Special Parts Used on Above Model Car	
P-5856 P-16139	P-16728	Throttle Lever & Stem
P-14959	P-16266	Pump Valve Sleeve
P-15365	P-15365	Venturi Tube (Right) 31/32
P-15366	P-15366	Venturi Tube (Left) 31/32
P-15477	P-15477	Idle Air Bleeder No 48
P-15491	P-15491	Pump Discharge Tubes No 70
P-15494	P-15494	Metering Jet 044'
P-15540	P-16452	Strainer Plug
P-16130	P-16789	Air Horn (Comp)
P-12933	P-15009	Air Horn
P-14000	P-17026	Choke Lever & Wire Connector
P-16460	P-13824	Choke Lever Stem
P-16513	P-13830	Choke Valve
P 16491	P-16701	Pump Lever

Std Part No	Special Parts Used on Above Model Car	
P-17142	P-16881	Throttle Valve Body with No 58 lower No 56 top idle holes
None Shown	P-285	Choke Valve Spring Clamp Screw
None Shown	P-13811	Choke Valve Spring
None Shown	P-13813	Choke Valve Spring Block
None Shown	P-13825	Choke Valve Spring Washer
None Shown	P-13844	Choke Lever Stem & Washer
None Shown	P-16554	Choke Stem Bushing
None Shown	P-17055	Choke Lever Stop

NOTE Pump Capacity 14 to 18 CC per 10 strokes Pump Needle open 1½ turns

NOTE Throttle Valve Location Flush plus or minus 002

HUPP "F-2" 1932-33 (85190)

3' x 4⅞"—8 Cyl.

No A-16502—UUR 2 Carburetor

Std Part No	Special Parts Used on Above Model Car	
P-5856 P-16139	P-16728	Throttle Lever & Stem
P-13829	P-13829	Main Discharge Jet No 28 with No 70 High Speed Bleeder
P-14959	P-16266	Pump Sleeve
P-15365	P-15365	Venturi Tube (Right) 31/32"
P-15366	P-15366	Venturi Tube (Left) 31/32'
P-15405	P-15405	By Pass Jet 020'
P-15477	P-15477	Idle Air Bleeder No 48
P-15491	P-15491	Pump Discharge Tubes No 70
P-15494	P-15494	Metering Jet 043
P-15540	P-16452	Strainer Plug
P-16130	P-16789	Air Horn (Comp)
P-12933	P-15009	Air Horn
P-14000	P-17026	Choke Lever & Wire Connector
P 16460	P-13824	Choke Lever Stem
P-16513	P-13830	Choke Valve
P-16491	P-16701	Pump Lever
P-17142	P-17345	Throttle Valve Body with No 58 lower No 56 top idle holes
None Shown	P-285	Choke Valve Spring Clamp Screw
None Shown	P-13811	Choke Valve Spring
None Shown	P-13813	Choke Valve Spring Block
None Shown	P-13825	Choke Valve Spring Washer
None Shown	P-13844	Choke Lever Stem & Washer
None Shown	P-16554	Choke Stem Bushing
None Shown	P-17055	Choke Lever Stop

NOTE Throttle Valve Location Flush plus or minus 002

NOTE Pump Capacity 14 to 18 CC per 10 strokes Pump Needle open 1 turn

HUPP "I-2" 1932-33 (85370)

$3\frac{3}{16}$' x 4¼ —8 Cyl

No A-16602—UUR-2 Carburetor

Std Part No	Special Parts Used on Above Model Car	
P-5856 P-16139	P-16728	Throttle Lever & Stem
P-13829	P-13829	Main Discharge Jet No 28 with No 70 High Speed Bleeder
P-14959	P-16266	Pump Valve Sleeve
P 15365	P-15365	Venturi Tube (Right) $1\frac{1}{16}$
P-15366	P-15366	Venturi Tube (Left) $1\frac{1}{16}$"
P-15405	P-15405	By Pass Jet 020'
P 15491	P-15491	Pump Discharge Tubes No 70
P 15494	P-15494	Metering Jet 047
P-15540	P-16452	Strainer Plug
P 16130	P-16789	Air Horn (Comp)
P-12933	P-15009	Air Horn
P-14000	P-17026	Choke Lever & Wire Connector
P-16460	P-13824	Choke Lever Stem
P-16513	P-13830	Choke Valve
P-16491	P-16701	Pump Lever
P-17142	P-17345	Throttle Valve Body with No 58 lower No 56 top idle holes
None Shown	P-285	Choke Valve Spring Clamp Screw
None Shown	P-13811	Choke Valve Spring
None Shown	P-13813	Choke Valve Spring Block
None Shown	P-13825	Choke Valve Spring Washer
None Shown	P-13844	Choke Lever Stem & Washer
None Shown	P-16554	Choke Stem Bushing
None Shown	P-17055	Choke Lever Stop

NOTE Pump Capacity 14 to 18 CC per 10 strokes Pump Needle open 1¼ turn

PARTS AND SETTINGS EXCEPTIONS MODEL UUR-2 STANDARD CARBURETOR (Continued)

(Passenger Cars and Trucks)

HUPP "L" 1932-33 (No 78990)

2⅞" x 4⅝"—8 Cyl

No A-15302—UUR-2 Carburetor (Vacuum Economizer Omitted)

Std Part No	Special Parts	Used on Above Model Car
P-5856	P-12815	Throttle Lever
P-13138	P-13784	Pump Valve
P-13790	P-12496	Pump Cam and Screw
P-15365	P-15365	Venturi Tube (Right) 31/32'
P-15366	P-15366	Venturi Tube (Left) 31/32'
P-15477	P-15477	Idle Air Bleeder No 48
P-15491	P-15491	Pump Discharge Tubes No 70
P-15494	P-15494	Metering Jet 044'
P-15540	P-16452	Strainer Plug
P-16491	P-16263	Pump Lever
P-16130	P-14608	Air Horn (Comp)
P-12933	P-15009	Air Horn
P-14000	P-13834	Choke Lever
P-16460	P-13824	Choke Lever Stem
P-16513	P-13830	Choke Valve
P-16547	P-14494	Piston and Sleeve
P-17142	P-16451	Throttle Valve Body No 58 lower No 56 top idle holes
None Shown	P-285	Choke Valve Spring Clamp Screw
None Shown	P-13811	Choke Valve Spring
None Shown	P-13813	Choke Valve Spring Block
None Shown	P-13825	Choke Valve Spring Washer
None Shown	P-13844	Choke Lever Stem & Washer
None Shown	P-13828	Choke Stem Bushing
None Shown	P-14607	Choke Lever Stop
None Shown	P-3647	Throttle Lever Pin

NOTE Pump Travel 1/ '

HENNEY 1932

3⅜"x4½"—8 Cylinder Engine

A-16282 UUR-2 Carburetor

Std Part No	Special Part No	Used on Above Model Car
P-5856	P-17184	Throttle Lever
P-14000 P-16460	P-18934	Choke Lever and Stem
P-15405	P-15405	034 Economizer Needle By-Pass Jet
P-15458	P-5709	Throttle Valve Body Screw Plugs
P-15459	P-12780	Throttle Valve Body Screw Plugs
P-15494	P-15494	049 Main Metering Jet
P-16130	P-17129	Air Horn (Complete)
P-16139	P-16730	Throttle Lever Stem
P-16996	P-7098	Throttle Valve Body Screw Plugs
P-17142	P-16731	Throttle Valve Body No 58-56 Idle Discharge Holes

NOTE Pump Capacity 17 18 CC per 10 strokes
Pump Needle open 1½ turns

METEOR MOTOR CAR 1931-32

3⅜"x4½' —8 Cylinder Engine

A-15742 UUR-2 Carburetor

Std Part No	Special Part No	Used on Above Model Car
P-5856	P-13848	Throttle Lever
P-14000 P-16460	P-18934	Choke Lever and Stem
P-15365	P-15365	1⅛" Venturi (Right)
P-15366	P-15366	1⅛' Venturi (Left)
P-15405	P-15405	093' Econ Needle and By-Pass Jet
P-15494	P-15494	054' Main Metering Jet
P-16130	P-16502	Air Horn (Complete)
None Shown	P-13127	No 70 Economizer Reducer

MACK 1931 MODEL "BK" (2-BK-322)

4½"x5½"—6 Cylinder

A-15192 UUR-2 Carburetor

Std Part No	Special Part No	Used on Above Model Truck
P-2475	P-12013	Air Horn Attaching Screw
P-3222	P-15277	Elbow Union
P-5856	P-8123	Throttle Lever
P-12680	P-14882	Choke Tube Holder
P-12788	P-13282	Throttle Stop
P-12933	P-14261	Air Horn (Casting)
P-13829	P-16295	No 30 20 Main Discharge Jet with No 68 H S Bleeder
P-14000 P-16460	P-14238 ‡P-11659 ‡P-14250	Choke Lever and Stem (Complete) Choke Lever Choke Stem
P-15365	P-16724	1 1/16 Right Venturi
P-15366	P-16725	1 1/16' Left Venturi
P-15405	P-15405	036 Econ Needle and By-Pass
P-15458	P-5709	Idle Air Channel Screw Plug
P-15459	P-12780	Idle Channel Screw Plug
P 15476	P-16323	Idle Tube (No 66 Feed Hole)
P-15477	P-15477	No 38 Idle Air Bleeder
P-15491	P-6202	Pump Discharge Channel Plug
P-15494	P-13395	042 Main Metering Jet
P-15502	P-6406	Econ Channel Plug
P-15962	P-16322	Main Body
P-16130	P-14239	Air Horn (Complete)
P-16139	P-17080	Throttle Lever Stem
P-16513	P-10144	Choke Valve
P-16716	P-15259	Throttle Valve Screw
P-16996	P-7098	Vacuum Suction Channel Screw Plug
P-17142	P-16791	Thro Valve Body 58-56 Idle Holes
None Shown	P-6243	Choke Lever Pin
None Shown	P-12097	Choke Return Spring
None Shown	P-7990	Pipe Plug
None Shown	P-14618	Air Horn Attaching Screw Nut
None Shown	P-16318	Union for Governor Control
None Shown	P-15287	Econ Suction Channel Set Screw
None Shown	P-5015	Throttle Stop Set Screw
None Shown	P-1693	Throttle Valve Screw Lockwasher

Furnish with each carburetor 1 P-15297 Hex Head Screw
NOTE Pump Capacity 6 CC per 10 strokes with Pump Needle open 1½ turns

MACK 1931 MODEL "BK" (2-BK-321)

4½"x5½"—6 Cylinder

A-15282 UUR-2 Carburetor (Code No 24-34)

Std Part No	Special Part No	Used on Above Model Truck
P-2475	P-12013	Air Horn Attaching Screw
P-3222	P-15277	Elbow Union
P-5856	P-8123	Throttle Lever
P-12680	P-14882	Choke Tube Holder
P-12788	P-13282	Throttle Stop
P-12933	P-14261	Air Horn (Casting)
P-13829	P-16295	No 30-20 Main Mischarge Jets with No 68 H S Bleeder
P-14000 P-16460	P-14238 ‡P-11659 ‡P-14250	Choke Lever and Stem (Complete) Choke Lever Choke Stem
P-15365	P-16724	1 1/16' Venturi (Right)
P-15366	P-16725	1 1/16 Venturi (Left)
P-15405	P-15405	036' Econ Needle and By-Pass
P-15458	P-5709	Idle Air Channel Screw Plug
P-15459	P-12780	Idle Channel Screw Plug
P-15476	P 16323	Idle Tube No 66 Feed Hole
P-15477	P-15477	No 38 Idle Air Bleeder
P-15491	P 6202	Pump Discharge Channel Plug
P-15494	P-13395	044 Main Metering Jet
P-15962	P-16322	Main Body
P-16130	P-14239	Air Horn (Complete)
P-16139	P-17080	Throttle Lever Stem
P-16513	P-10144	Choke Valve
P-16716	P-15259	Throttle Valve Screw
P-16996	P-7098	Vacuum Suction Channel Screw Plug
P-17142	P-16791	Thro Valve Body No 58-56 Idle Holes
None Shown	P-6243	Choke Lever Pin
None Shown	P-12097	Choke Lever Return Spring
None Shown	P-7990	Pipe Plug
None Shown	P-14618	Air Horn Attaching Screw Nut
None Shown	P-16318	Union (For Governor Control)
None Shown	P-15287	Econ Suction Channel Set Screw
None Shown	P-5015	Throttle Stop Set Screw
None Shown	P-1693	Throttle Valve Screw Lockwasher

Furnish with each carburetor 1 P-15297 Hex Head Screw

MACK 1931 MODEL "BC" (2-BC-323)

4"x5½' —6 Cylinder

A-15312 UUR-2 Carburetor

Std Part No	Special Part No	Used on Above Model Truck
P-2475	P-12013	Air Horn Attach Screw
P-3222	P-15278	Elbow Union
P-4522	P-506	Choke Valve Screws
P-5856	P-8123	Throttle Lever
P-12680	P-12677	Choke Tube Holder
P-12788	P-13282	Throttle Stop
P-12933	P-16463	Air Horn (Casting)
P-13829	P-16295	No 28-20 Main Disch Jet with No 68 H S Bleeder
P-14000	P-14072	Choke Lever
P-15365	P-16724	1 1/16 Venturi (Right)
P-15366	P-16725	1 1/16 Venturi (Left)
P-15405	P-15405	036' Econ Needle and By-Pass Jet
P-15458	P-5709	Idle Air Channel Screw Plug
P-15459	P-12780	Idle Channel Screw Plug
P-15476	P-16323	Idle Tube No 66 Feed Hole
P-15477	P-15477	No 38 Idle Air Bleeder
P-15491	P-6202	Pump Disch Channel Screw Plug
P-15494	P-13395	041 Main Metering Jet
P-15502	P-6402	Econ Channel Screw Plug
P-15962	P-16322	Main Body
P-16130	P-16462	Air Horn (Complete)
P-16139	P-17088	Throttle Lever Stem
P-16460	P-16553	Choke Stem
P 16513	P-15756	Choke Valve
P-16716	P-15259	Throttle Valve Screw
P-16996	P-7098	Vacuum Suction Channel Screw Plug
P-17142	P-17102	Thro Valve Body No 58 56 Idle Hole
None Shown	P-1693	Thro and Choke Valve Screw Lockwshr
None Shown	P-16554	Choke Stem Bushing
None Shown	P-14618	Air Horn Attach Screw Nut
None Shown	P-5015	Throttle Stop Set Screw

NOTE Pump Capacity 6 CC per 10 strokes pump needle open 1½ turns

PARTS AND SETTINGS EXCEPTIONS MODEL UUR-2 STANDARD CARBURETOR (Continued)
(Passenger Cars)

MACK 1931 MODEL "BC" (2 BC 322A)
4″x5½′—6 Cylinder
A-15322 UUR-2 Carburetor (Code No 24 37)

Std Part No	Special Part No	Used on Above Model Truck
P-2475	P-12013	Air Horn Attach Screw
P-3222	P-15278	Elbow Union
P-5856	P-5935	Throttle Lever
P-12680	P-14882	Choke Tube Holder
P-12788	P-13282	Throttle Stop
P-12933	P-14261	Air Horn (Casting)
P-13829	P-16295	No 28 20 Main Disch Jet with No 68 H S Bleeder
P-14000 P-16460	P-14238	Choke Lever and Stem (Complete)
	‡P-11659	Choke Lever
	‡P-14250	Choke Stem
P-15365	P-16724	1$\frac{1}{16}$′ Venturi (Right)
P-15366	P-16725	1$\frac{1}{16}$ Venturi (Left)
P-15405	P-15405	036′ Econ Needle and By-Pass Jet
P-15476	P-16323	Idle Tube No 66 Feed Hole
P-15477	P-15477	No 38 Idle Air Bleed
P-15491	P-6202	Pump Disch Channel Screw Plug
P-15494	P-13395	041 Main Metering Jet
P-15502	P-6406	Econ and Pump Gas Chan Screw Plug
P-15962	P-16322	Main Body
P-16130	P-14239	Air Horn (Complete)
P-16139	P-17080	Throttle Lever Stem
P-16513	P-10144	Choke Valve
P-16716	P-15259	Throttle Valve Screw
P-17142	P-17092	Thro Valve Body No 58 56 Idle Holes
None Shown	P-6243	Choke Lever Pin
None Shown	P-17097	Choke Lever Return Spring
None Shown	P-7990	Pipe Plug
None Shown	P-14618	Air Horn Attach Screw Nut
None Shown	P-5015	Throttle Stop Set Screw
None Shown	P-1693	Throttle Valve Screw Lockwasher

EQUIPMENT

P-15297 Hexagon Head Screw

NOTE Pump Capacity 6 CC per 10 strokes with Adj Needle open 1½ turns

MACK 1931 MODEL "BK" TRUCK (2-BK-329)
A-15472 UUR-2 Carburetor (Code No 24-38)

Std Part No	Special Part No	Used on Above Model Truck
P-2475	P-12013	Air Horn Attaching Screw
P-3222	P-15277	Elbow Union
P-5856	P-8123	Throttle Lever
P-10344	P-11566	Float Fulcrum Pin
P-12680	P-16255	Choke Tube Holder
P-12788	P-13282	Throttle Stop
P-12933	P-16463	Air Horn (Casting)
P-13829	P-16295	No 30-20 Main Discharge Jet with No 68 H S Bleeder
P-14000	P-17098	Choke Lever
P-15365	P-16724	1$\frac{1}{16}$ Venturi (Right
P-15366	P-16725	1$\frac{1}{16}$″ Venturi (Left)
P-15405	P-15405	036′ Econ Needle and By Pass Jet
P-15458	P-5709	Idle Air Channel Plug
P-15459	P-12780	Idle Channel Hole Plug
P-15476	P-16323	Idle Tube No 55 Feed Hole
P-15477	P-15477	No 38 Idle Air Bleeder
P-15491	P-6202	Pump Discharge Channel Plug
P-15494	P-13395	044 Main Metering Jet
P-15502	P 6406	Econ Channel Plug
P-15962	P-16322	Main Body
P-16130	P-16253	Air Horn (Complete)
P-16139	P-17080	Throttle Lever Stem
P-16460	P-16553	Choke Stem
P-16513	P-15756	Choke Valve
P-16716	P-15259	Throttle Valve Screw
P-16996	P-7098	Vacuum Suction Channel Plug
P-17142	P-16791	Thro Valve Body, 58-56 Idle Holes
None Shown	P-17914	Choke Lever Return Spring
None Shown	P-17909	Choke Stem Bushing
None Shown	P-1693	Thro Valve Screw Lockwasher
None Shown	P-14618	Air Horn Attach Screw Nuts
None Shown	P-16318	Union (Governor Control)
None Shown	P-15287	Econ Suction Chan Hdless Scr Plug
None Shown	P-5015	Throttle Stop Set Screw

Furnish with each carburetor 1 P-13046 Hexagon Head Screw
Will furnish only when specified on order J-3905 Manifold Fitting—P-4359 Cap Screw—P-8838 Lockwashers—P-9882 Hexagon Nuts—P-14038 Gasket

MACK 1931 MODEL "B C" (2-BC-317)
4″x5½′—6 Cylinder
A-15502 UUR-2 Carburetor (Code No 24-44)

Std Part No	Special Part No	Used on Above Model Truck
P-2475	P-12013	Air Horn Attaching Screw
P-3222	P-15278	Elbow Union
P-4522	P-506	Choke Valve Screw
P-5856	P-8123	Throttle Lever
P-12680	P-12677	Choke Tube Holder
P-12788	P-13282	Throttle Stop
P-12933	P-16463	Air Horn (Casting)
P-13829	P-16295	No 28-20 Main Discharge Jets with No 68 H S Bleeder
P-14000	P-14072	Choke Lever
P-15365	P-16724	1$\frac{1}{16}$ Venturi (Right
P-15366	P-16725	1$\frac{1}{16}$″ Venturi (Left)
P-15405	P-15405	036″ Econ Needle and By-Pass Jet
P-15458	P-5709	Idle Air Channel Screw Plug
Std Part No	**Special Parts**	**Used on Above Model Car**
P-15459	P-12780	Idle Channel Screw Plug
P-15476	P-16323	Idle Tube No 66 Feed Hole
P-15477	P-15477	No 38 Idle Air Bleeder
P-15491	P-6202	Pump Discharge Channel Plug
P-15494	P-13395	041 Main Metering Jet
P-15502	P-6406	Econ and Pump Channel Screw Plug
P-15962	P-16322	Main Body
P-16130	P-16462	Air Horn (Complete)
P-16139	P-17088	Throttle Lever Stem
P-16460	P-16553	Choke Stem
P-16513	P-15756	Choke Valve
P-16716	P-15259	Throttle Valve Screw
P-16996	P-7098	Vacuum Suction Channel Screw Plug
P-17142	P-17102	Thro Valve Body, 58-56 Idle Holes
None Shown	P-16554	Choke Stem Collar
None Shown	P-1693	Choke Valve Screw Lockwasher
None Shown	P-14618	Air Horn Attach Screw Nut
None Shown	P-5015	Throttle Stop Set Screw

NOTE Pump Capacity 6 CC with Pump Needle open 1½ turns

MACK 1932 MODEL "BX" (2-BX-31)
4¼x5½′—6 Cylinder
A-16622 UUR 2 Carburetor

Std Part No	Special Part No	Used on Above Model Truck
P 2475	P-12013	Air Horn Attaching Screw
P-3222	P-15278	Elbow Union
P-5856	P-8123	Throttle Lever
P-12680	P-14882	Choke Tube Holder
P-12788	P-17729	Throttle Stop
P-12933	P-14261	Air Horn (Casting)
P-13829	P-16295	No 28-20 Main Disch Jet with No 68 H S Bleeder
P-14000 P-16460	P-14238	Choke Lever and Stem (Complete)
	‡P-14250	Choke Stem
	‡P 11659	Choke Lever
P-15365	P-16724	1⅛ Venturi (Right)
P-15366	P-16725	1⅛ Venturi (Left)
P-15405	P-15405	036 Econ Needle and By-Pass Jet
P-15476	P-16323	Idle Tube No 66 Feed Hole
P-15477	P-15477	No 38 Idle Air Bleeder
P-15491	P-6202	Pump Discharge Channel Plug
P-15494	P-15494	049 Main Metering Jet
P-15502	P-6406	Econ Channel Plug
P-15962	P-16322	Main Body
P-16130	P-14239	Air Horn (Complete)
P-16139	P-17080	Throttle Lever Stem
P-16513	P-10144	Choke Valve
P-16716	P-15259	Throttle Valve Screw
P-17142	P-17092	Throttle Valve Body, No 58-56 Idle Holes
None Shown	P-6243	Choke Lever Pin
None Shown	P-12097	Choke Lever Return Spring
None Shown	P-17990	Pipe Plug
None Shown	P-14618	Air Horn Attaching Screw Nut
None Shown	P-5015	Throttle Stop Set Screw
None Shown	P-1693	Throttle Valve Screw Lockwasher

EQUIPMENT

P-15297 Hex Hd Screw

NOTE Pump Capacity 6 CC per 10 strokes with Pump Adj Needle open 1½ turns

MACK 1932 MODEL "BQ' (2-BQ 31)
A-16672 UUR-2 Carburetor

Std Part No	Special Part No	Used on Above Model Truck
P-2475	P-12013	Air Horn Attach Screw
P-3222	P-15277	Union Elbow
P-4522	P-15259	Choke Valve Screw
P-5856	P-8123	Throttle Lever
P-10344	P-11566	Float Fulcrum Pin
P-12680	P-16255	Choke Tube Holder
P-12788	P-17729	Throttle Stop
P-12933	P-16463	Air Horn (Casting)
P-13829	P-17709	No 30-20 Main Disch Jet with No 70 H S Bleeder
P-14000	P-17908	Choke Lever
P-15365	P-16724	Venturi (Right)
P-15366	P-16725	Venturi (Left)
P-15405	P-15405	036 Econ Needle and By-Pass Jet
P-15458	P-5709	Idle Air Channel Screw Plug
P-15459	P-12780	Idle Channel Screw Plug
P-15476	P-16323	Idle Tube No 66 Feed Hole
P-15477	P-15477	No 38 Idle Air Bleed
P-15491	P-6202	Pump Disch Channel Screw Plug
P-15494	P-15384	053 Main Metering Jet
P-15502	P-6406	Econ Channel Screw Plug
P-15962	P-16322	Main Body
P-16130	P-16253	Air Horn (Complete)
P-16139	P-17080	Throttle Lever Stem
P-16460	P-16553	Choke Stem
P-16513	P-15756	Choke Valve
P-16716	P-15259	Throttle Valve Screw
P-16996	P-7098	Vacuum Suction Channel Screw Plug
P-17142	P-16791	Thro Valve Body No 58-56 Idle Holes
None Shown	P-17914	Choke Lever Return Spring
None Shown	P-17909	Choke Stem Bushing
None Shown	P-1693	Choke & Thro Valve Screw Lockwasher
None Shown	P-3292	Pipe Plug
None Shown	P-16318	Union (Governor Control)
None Shown	P-15287	Econ Suc Channel Hdless Screw Plug
None Shown	P-14618	Air Horn Attach Screw Nut

PARTS AND SETTINGS EXCEPTIONS MODEL UUR-2 STANDARD CARBURETOR (Continued)
(Passenger Cars)

MACK 1932 MODEL "BQ" (2-BQ-35)
A-16892 UUR-2 Carburetor

Std Part No	Special Part No	Used on Above Model Truck
P-2475	P-12013	Air Horn Attach Screw
P-3222	P-15277	Elbow Union
P-4522	P-506	Choke Valve Screw
P-5856	P-8123	Throttle Lever
P-10344	P-11566	Float Fulcrum Pin
P-12680	P-16255	Choke Tube Holder
P-12788	P-13282	Throttle Stop
P-12933	P-16463	Air Horn (Casting)
P-13829	P-17709	No 30-20 Main Disch Jet with No 70 H S Bleeder
P-15365	P-16724	1⅛ Venturi (Right)
P-15366	P-16725	1⅛' Venturi (Left)
P-15405	P-15405	036 Econ Needle and By-Pass Jet
P-15458	P-5709	Idle Air Channel Screw Plug
P-15459	P-12780	Idle Channel Screw Plug
P-15476	P-16323	Idle Tube No 66 Feed Hole
P-15477	P-15477	No 38 Idle Air Bleeder
P-15491	P-6202	Pump Disch Channel Plug
P-15494	P-15384	053 Main Metering Jet
P-15502	P-6406	Econ Channel Screw Plug
P-15962	P-16322	Main Body
P-16139	P-17088	Throttle Lever Stem
P-16716	P-15259	Throttle Valve Screw
P-16130	P-17930	Air Horn (Complete)
P-16513	P-15756	Choke Valve
P-16460	P-16553	Choke Stem
P-16996	P-7098	Vacuum Suction Channel Screw Plug
P-17142	P-17931	Thro Valve Body No 58-65 Idle Holes
None Shown	P-17909	Choke Stem Collar
None Shown	P-17914	Choke Lever Return Spring
None Shown	P-14618	Air Horn Attach Screw Nut
None Shown	P-16318	Union (Governor Control)
None Shown	P-15287	Econ Suction Channel Screw Plug
None Shown	P-5015	Throttle Stop Set Screw
None Shown	P-1693	Throttle Valve Screw Lock Washer

MACK 1932 MODEL "BX" (2-BX-32)
A-17042 UUR-2 Carburetor

Std Part No	Special Part No	Used on Above Model Truck
P-2475	P-12013	Air Horn Attaching Screw
P-3222	P-15278	Elbow Union
P-5856	P-8123	Throttle Lever
P-10344	P-11566	Float Fulcrum Screw
P-12680	P-14831	Choke Tube Holder
P-12788	P-13282	Throttle Stop
P-12933	P-14261	Air Horn (Casting)
P-13829	P-16295	No 28-20 Main Discharge Jets with No 68 H S Bleeder
P-15365	P-16724	1 1/16 Venturi (Right)
P-15366	P-16725	1 1/16 Venturi (Left)
P-15405	P-15405	030 Econ Needle and By Pass Jet
P-15450	P-5709	Idle Air Channel Screw Plug
P-15459	P-12780	Idle Channel Screw Plug
P-15476	P-16135	Idle Tube No 68 Feed Hole
P-15477	P-15477	No 38 Idle Air Bleeder
P-15491	P-6202	Pump Discharge Channel Screw Plug
P-15494	P-15384	047 Main Metering Jet (Right)
P-15494	P-15384	048 Main Metering Jet (Left)
P-15502	P-6406	Econ Channel Screw Plug
P-15962	P-16322	Main Body
P-16130	P-17954	Air Horn (Complete)
P-16139	P-17088	Throttle Lever Stem
P-16460	P-17958 P-14250	Choke Lever and Stem (Complete) Choke Stem
P-16716	P-15259	Throttle Valve Screw
P-16996	P-7098	Vacuum Suction Channel Screw Plug
P-17142	P-17971	Thro Valve Body No 58-56 Idle Holes
None Shown	P-7990	Pipe Plug
None Shown	P-15657	Choke Lever Return Spring
None Shown	P-6243	Choke Lever Pin
None Shown	P-14618	Air Horn Attaching Screw Nut
None Shown	P-16318	Union (Governor Control)
None Shown	P-15287	Econ Suction Channel Plug
None Shown	P-5015	Throttle Stop Set Screw
None Shown	P-1693	Throttle Valve Screw Lock Washer

MARMON 'H" & "CC" 1931 (CC-510)
3¼" x 4¾"—8 Cyl
No A-14882—UUR-2 Carburetor

Std Part No	Part Used on Above Model Car	
P-5856 P-16139	P-16900	Throttle Lever & Stem
P-12868	P-12823	Choke Tube Holder (Comp)
P-12933	P-14716	Air Horn
P-13829	P-16445	Main Discharge Jet No 40 with No 60 High Speed Bleeder
P-15365	P-15365	Venturi Tube (Right) 1 1/16'
P-15366	P 15366	Venturi Tube (Left) 1 1/16"
P-15405	P-15405	By-Pass Jet 048"
P-15491	P-15491	Pump Discharge Tubes No 74
P-15494	P-12512	Metering Jet 052
P-15962	P-16442	Main Body
P-16130	P-16439	Air Horn (Comp)
P-16460	P-16420	Choke Stem & Lever
P-16491	P-17245	Pump Lever
P-16513	P-16446	Choke Valve
P-16547	P-16432	Pump Piston
Std Part No	**Special Parts Used on Above Model Car**	
P-17142	P-16898	Throttle Valve Body No 58 lower No 56 top idle holes
None Shown	P-16433	Pump Sleeve
None Shown	P-16901	Throttle Connecting Link (Upper)
None Shown	P-16438	Throttle Connecting Link (Lower)
None Shown	P-16899	Throttle Lever
None Shown	P-16436	Throttle Connecting Fulcrum Screw
None Shown	P-11724	Connecting Link Screw
None Shown	P-9284	Connecting Link Screw Nut
None Shown	P-14813	Connecting Link Screw Nut Washer
None Shown	P-16425	Pump By-Pass Jet

NOTE Throttle Valve to be cracked open 030 (No 69 drill) when choke valve is fully closed

NOTE Throttle Valve Location Flush plus or minus 002

NOTE Pump travel 7/16

NOTE Pump Capacity 10 to 12 CC per 10 strokes

NASH 1934 MODEL "1290" (88953)
3¼"x4½"—8-Cylinder
A 17612 UUR 2 Carburetor

Std Part No	Special Parts No	Used on Above Model Car
P-5856 P-12788 P-16139	P-16666	Throttle Lever and Stem
P-12606	P-6668	Lock Washer
P-12680	P-14614	Choke Lever Stop
P-12933	P-19192	Air Horn Casting
P-14000	P-15510	Choke Lever
P-15365	P-15365	1⅛ Venturi (Right)
P-15366	P-15366	1⅛' Venturi (Left)
P-15405	P-15405	050 By-Pass Jet
P-15477	P-15477	No 42 Idle Air Bleeder
P-15491	P-15491	No 70 Pump Discharge Jet
P-15494	P-15494	049 Main Metering Jet
P-16130	P-19179	Air Horn (Complete)
P-16460	P-15507	Choke Stem
P-16491	P-16701	Pump Lever
P-16513	P-15466	Choke Valve
P-17142	P-17951	Thro Valve Body 58-56 Idle Holes
J 4201 G	J 4368 G	Complete Gasket Set
None Shown	P-17259	Choke Stem Collar
None Shown	P-17949	Gasket under P-12485
None Shown	P-15553	Pump Link Washer
None Shown	P-17947	Spring under P-15553
None Shown	P-14817	Washer under P-17947
None Shown	P-17380	Packing
None Shown	P-17950	Gasket under P-15975
None Shown	P-19174	Air Horn Cup Gasket
None Shown	P-19177	Drain Tube
None Shown	P-19178	Stud
None Shown	P-15647	Nut
None Shown	P-19173	Drain Cup
None Shown	P-17208	Nut

NOTE Pump Capacity 11 to 12 CC per 10 strokes Pump Needle open 1⅛ turns

NOTE Throttle Valve Location Flush plus or minus 002

NASH '10-80" AND '11-80' 1932-33 (44019-A)
3⅛"x4¼" 8 Cyl
No A 16302 UUR 2 Carburetor

Std Part No	Part Used on Above Model	
P-5856 P-16139	P-16515	Throttle Lever and Stem
P-6454	P-6454	Throttle Valve 19°
P-12606	P-6668	Lock Washer
P-12933	P-17276	Air Horn
P-13829	P-13829	Main Discharge Jet No 40 with No 70 High Speed Bleeder
P-14000 P-16460	P-17560	Choke Lever and Stem
P-14959	P-16536	Pump Sleeve
P-15365	P-15365	Venturi Tube (Right) 1 1/16
P-15366	P-15366	Venturi Tube (Left) 1 1/16
P-15405	P-15405	By Pass Jet 050
P-15458	P-5709	Plug
P-15459	P-12780	Plug
P-15477	P-15477	Idle Air Bleeder No 42
P-15491	P-15491	Pump Discharge Tubes No 74
P-15494	P-15494	Metering Jet 047'
P-16130	P-17562	Air Horn (Comp)
P-16996	P-7098	Plug
P-17142	P-17961	Throttle Valve Body with No 58 Lower, No 56 Top Idle Holes
None Shown	P-17949	Pump Needle Spring Washer Gasket
None Shown	P-15553	Pump Link Washer
None Shown	P-17947	Pump Link Spring
None Shown	P-14817	Pump Link Spring Washer
None Shown	P-17380	Pump Link Felt Washer
None Shown	P-17950	Pump Gasket
None Shown	P-16487	Throttle Stop (Loose)
None Shown	P-16485	Throttle Lever (Loose)
None Shown	P-14614	Choke Lever Stop
None Shown	P-15456	Screw (Thro Stop)
None Shown	P-15831	Spring

NOTE Pump Adjusting Needle open 2 turns

PARTS AND SETTINGS EXCEPTIONS MODEL UUR-2 STANDARD CARBURETOR (Continued)
(Passenger Cars)

NASH "8-90", "9-90", "10-90", "11-90" 1930-31-32-33 (88953)
3¼"x4½" 8 Cyl.

No. A-14692 UUR-2 Carburetor

Std Part No	Part Used on Above Model	
P-6454	P-6454	Throttle Valve 19°
P-12933	P-14716	Air Horn
P-14000	P-15510	Choke Lever
P-15365	P-15365	Venturi Tube (Right) 1⅛"
P-15366	P-15366	Venturi Tube (Left) 1⅛"
P-15405	P-15405	By Pass Jet 050'
P-15458	P-5709	Plug
P-15459	P-12780	Plug
P-15477	P-15477	Idle Air Bleeder No 42
P-15491	P-15491	Pump Discharge Tubes No 70
P-15494	P-15494	Metering Jet 047"
P-16130	P-15499	Air Horn (Comp)
P-16139 P-5856 P-12788	P-16666	Thro Lever and Stem
P-16460	P-15507	Choke Lever Stem
P-16491	P-16701	Pump Lever
P-16513	P-15446	Choke Valve (Comp)
P-16996	P-7098	Plug
P-17142	P-17951	Throttle Valve Body with No 58 Lower, No 56 Top Idle Holes
None Shown	P-17949	Pump Needle Spring Washer Gasket
None Shown	P-15553	Pump Link Washer
None Shown	P-17947	Pump Link Spring
None Shown	P-14817	Pump Link Spring Washer
None Shown	P-17380	Pump Link Felt Washer
None Shown	P-17950	Pump Gasket
None Shown	P-14614	Choke Lever Stop
None Shown	P-17259	Choke Lever Stem Bushing

NOTE Pump Capacity 11 to 12 CC per 10 strokes Pump Needle open 1⅛ turns

NASH "9-80" 1931 (42652-A)
3"x4¼" 8 Cyl.

No A-15292 UUR-2 Carburetor

Std. Part No	Part Used on Above Model	
P-5856 P-16139	P-16515	Throttle Lever and Stem
P-6454	P-6454	Throttle Valve 19°
P-10344	P-11566	Float Fulcrum Pin
P-12680	P-13286	Choke Tube Holder
P-12933	P-16512	Air Horn
P-15494	P-13395	Metering Jet 043"
P-13829	P-13829	Main Discharge Jet No 40 with No 70 High Speed Bleeder
P-14000 P-16460	P-16511	Choke Lever and Stem
P-14959	P-16536	Pump Sleeve
P-15405	P-15405	By Pass Jet 042
P-15458	P-5709	Plugs
P-15459	P-12780	Plug
P-15491	P-15491	Pump Discharge Tubes No 74
P-15962	P-15472	Main Body
P-16130	P-16482	Air Horn (Comp)
P-16996	P-7098	Plugs
P-17142	P-17961	Throttle Valve Body with No 58 Lower, No 56 Top Idle Holes
None Shown	P-15553	Pump Link Washer
None Shown	P-17947	Pump Link Spring
None Shown	P-14817	Pump Link Spring Washer
None Shown	P-17950	Pump Gasket
None Shown	P-16485	Throttle Lever (Loose)
None Shown	P-16487	Throttle Stop (Loose)
None Shown	P-17949	Gasket
None Shown	P-17948	Leather
None Shown	P-15456	Screw (Thro Stop)
None Shown	P-15831	Spring

NOTE Pump Adjusting Needle open 2 turns

PIERCE ARROW "144-147" 1931 (750962)
3½ x 4¾" & 3½" x 5"—8 Cyl

No A-14852—UUR 2 Carburetor (Code No 18-9)

Std Part No.	Part Used on Above Model Car	
P-5856 P-16139	P-17131	Throttle Lever & Stem & Cam
P-12680	P-15443	Choke Tube Holder
P-12933	P-14716	Air Horn
P-14000	P-15445	Choke Lever
P-15365	P-15365	Venturi Tube (Right) 1⅛"
P-15366	P-15366	Venturi Tube (Left) 1⅛'
P-15476	P-16135	Idle Tube
P-15477	P-15477	Idle Air Bleeder No 42
P-15478	P-17402	Idle Needle Valve
P-15494	P-15494	Metering Jet 050"
P-15567	P-15811	Choke Valve (Comp)
P-16460	P-15816	Choke Stem
P-16491	P-16701	Pump Lever
P-17142	P-16810	Throttle Valve Body with No 58 lower No 56 top idle holes
None Shown	P-13127	Economizer Reducer No 68

NOTE Pump Adjusting Needle open 2 turns

PIERCE ARROW 1932 MODEL 54 (701438)
3½ x 4¼ —8 Cyl Engine
A 15152 UUR-2 Carburetor

Std Part No	Special Part No for Above Model	
P-1791	P-1791-D	Float Chamber Cover Screw Lock Washer
P-2475	P 2475-D	Air Horn Attaching Screw
P-3157	P-3157-D	Main Body Attaching Screw Lockwasher
P-3222	P-3221	Elbow Union
P-5856 P-12788 P-16139	P-17131-D	Throttle Lever with Stem and Cam
P-6249	P-6249-D	Float Chamber Cover Screw
P-9025	P-9025-D	Float Chamber Cover Screw
P-10344	P-11566	Float Fulcrum Pin
P-11250	P-11250-D	Idle Tube and Pump Lever Washer
P-11531	P-11531 D	Choke Tube Holder Attaching Screw
P-11571	P-11571-D	Float Chamber Gas Level Plug
P-12485	P-12485-D	Pump Needle Valve Spring Washer
P-12530	P-12530-D	Pump Needle Valve Spring
P-12680	P-16792-D	Choke Tube Holder
P-12933	P-14716	Air Horn
P-13041	P-13041-D	Main Body Attaching Screw
P-14000	P-15445-D	Choke Lever
P-15346	P-15346	Choke Tube Holder Attaching Screw Lockwasher
P-15365	P-15365	1⅛ Venturi (Right)
P-15366	P-15366	1⅛ Venturi (Left)
P-15390	P-15390-D	Pump Lever Cotter Pin
P-15458	P-15458 D	Idle Air Channel Plug
P-15459	P-15459-D	Idle Channel Hole Plug
P-15476	P-16135	Idle Tube No 68 Feed Hole
P-15477	P-15477	Idle Air Bleeder No 42
P-15478	P-17402	Idle Needle Valve
P-15481	P-15481-D	Idle Needle Valve Spring
P-15668	P-15668 D	Pump Lever Fulcrum Pin
P-15975	P-15975-D	Pump Piston Link Washer
P-16460	P-15816	Choke Stem
P-16491	P-16701-D	Pump Lever
P-16492	P-16492-D	Pump Lever Spring
P-16513	P-15811	Choke Valve
P-16996	P-16996-D	Vacuum Suction Channel Plug
P-17142	P-16810	Throttle Body No 56—top, No 58 lower Idle Holes
P-20904	P-4522	Choke Valve Screw
None Shown	P-13127	No 68 Economizer Reducer
None Shown	P-9689	Choke Wire Connector
None Shown	P 506-D	Choke Wire Connector Screw
None Shown	P 8806-D	Square Nut
None Shown	P-12868-D	Slotted Hex Head Screw
None Shown	P 13828-D	Choke Stem Bushing

STUDEBAKER "62-71" 1932 (74555)
DICTATOR—COMMANDER
3 1/16 x 3¾" and 3 1/16" x 4¼"—8 Cyl
No A-15702—UUR-2 Carburetor

Std Part No	Part Used on Above Model Car	
P-5856 P-16139	P-16663	Throttle Lever & Stem
P-16130	P-16702	Air Horn (Comp)
P-12933	P-15288	Air Horn
P-14000 P-16460	P-16711	Choke Lever & Stem
P-12680	P-15289	Choke Tube Holder (Comp)
P-16513	P-15571	Choke Valve (Comp)
P-15266	P-15564	Choke Valve Bushing
P-15263	P-15565	Choke Valve Spring
P-15330	P-8273	Choke Valve Washer
P-15331	P-15566	Choke Valve Pin
P-16491	P-16701	Pump Lever
P-17142	P-16681	Throttle Valve Body with No 58 lower No 56 top idle holes
None Shown	P-13127	Economizer Reducer No 72

NOTE Pump Capacity 11 to 13 CC per 10 strokes Pump Needle open ¾ turns

NOTE Pump Travel 25/32"

STUDEBAKER "PRESIDENT 91" 1932 (174006)
3½" x 4⅜"—8 Cyl

No A-15682—UUR-2 Carburetor

Std Part No	Part Used on Above Model Car	
P-5856 P-16139	P-16673	Throttle Lever & Stem
P-15365	P-15365	Venturi Tube (Right) 1⅛'
P-15366	P-15366	Venturi Tube (Left) 1⅛'
P-15494	P-15494	Metering Jet 050'
P-16130	P-16702	Air Horn (Comp)
P-12933	P-15288	Air Horn
P-14000 P-16460	P-16711	Choke Lever & Stem
P-12680	P-15289	Choke Tube Holder (Comp)
P-16513	P-15571	Choke Valve (Comp)
P-15266	P-15564	Choke Valve Bushing
P-16263	P-15565	Choke Valve Spring
P-15330	P-8273	Choke Valve Washer
P-15331	P-15566	Choke Valve Pin
P-16491	P-16701	Pump Lever
P-17142	P-16681	Throttle Valve Body with No 58 lower No 56 top idle holes
None Shown	P-13127	Economizer Reducer No 70

NOTE Pump Travel 25/32

NOTE Pump Capacity, 7 to 10 CC per 10 strokes Pump Needle open ½ turn

PARTS AND SETTINGS EXCEPTIONS MODEL UUR-2 STANDARD CARBURETOR (C ntinued)
(Passenger Cars)

STUDEBAKER 1930-31 MODELS "80" & "90" (173100)
3½"x4⅜"—8-Cylinder Engine
A-14892 UUR-2 Carburetor (Code No)

Std Part No	Special Part No	Used on Above Model Car
P-5856	**P-13848**	Throttle Lever
P-10344	**P-11566**	Float Fulcrum Pin
P-12680	**P-15289**	Choke Tube Holder
P-12933	**P-15288**	Air Horn (Casting)
P-14000	**P-14936**	Choke Lever
P-15365	**P-15365**	1⅛' Venturi (Right)
P-15366	**P-15366**	1⅛' Venturi (Left)
P-15405	**P-15405**	0935' By-Pass Jet
P-15458	**P-5709**	Idle Air Channel Screw Plug
P-15459	**P-12780**	Idle Channel Screw Plug
P-15494	**P-15494**	050 Main Metering Jet
P-15668 **P-16942**	**P-13165**	Pump Lever Torsion Spring
P-16130	**P-15970**	Air Horn (Complete)
P-16139	**P-15503**	Throttle Lever Stem
P-16460	**P-15777**	Choke Lever Stem
P-16494	**P-15981**	Pump Sleeve and Link
P-16513	**P-15571**	Choke Valve
P-16716	**P-4522**	Throttle Valve Screws
P-16941	**P-15967**	Pump Lever Complete
P-16996	**P-7098**	Vacuum Suction Channel Screw Plug
P-17142	**P-15961**	Thro Valve Body, No 58-56 Idle Holes
None Shown	**P-14073**	Choke Stem Collar
None Shown	**P-13127**	No 70 Economizer Reducer
None Shown	**P-7170**	Cotter Pin

NOTE Pump Travel 25/32

STUDEBAKER 1931 DICTATOR AND COMMANDER (173093)
MODELS "61" & "70"
3 1/16"x3¾"—8 Cylinder Engine
3 1/16"x4½"—8 Cylinder Engine
A-14982 UUR-2 Carburetor

Std Part No	Special Part No	Used on Above Model Car
P-5856	**P-13848**	Throttle Lever
P-10344	**P-11566**	Float Fulcrum Pin
P-12680	**P-15289**	Choke Tube Holder
P-12933	**P-15288**	Air Horn (Casting)
P-14000	**P-14936**	Choke Lever
P-15405	**P-15405**	0935' By-Pass Jet
P-15458	**P-5709**	Idle Air Channel Screw Plug
P-15459	**P-12780**	Idle Channel Holes Screw Plug
P-15668 **P-16941**	**P-15967**	Pump Lever Complete
P-16130	**P-15970**	Air Horn (Complete)
P-16139	**P-15503**	Throttle Lever Stem
P-16460	**P-15777**	Choke Lever Stem
P-16492	**P-13165**	Pump Torsion Spring
P-16494	**P 15981**	Pump Sleeve and Link
P-16513	**P-15571**	Choke Valve
P-16716	**P-4522**	Throttle Valve Screw
P-16996	**P-7098**	Vacuum Suction Channel Screw Plug
P-17142	**P-15961**	Thro Valve Body, No 58-56 Idle Holes
None Shown	**P-14073**	Choke Stem Collar
None Shown	**P-13127**	No 72 Economizer Reducer
None Shown	**P-7120**	Cotter Pin

PARTS AND SETTINGS EXCEPTIONS MODEL UUR-2 STANDARD CARBURETOR (Continued)
(Passenger Cars and Trucks)

PIERCE-ARROW 1932 MODEL "54" (701438)
3½ x4¾"—8-Cylinder
A-15152 UUR-2 Carburetor (Code No 18-10)

Std Part No	Special Part No	Used on Above Model Car
P-3222	**P-3221**	Gas Union Elbow
P-10344	**P-11566**	Float Fulcrum Pin
P-12680	**P-17040**	Choke Tube Holder
P-12933	**P-16130**	Air Horn (Casting)
P-14000	**P-15446**	Choke Lever
P-15365	**P-15365**	1⅛ Venturi (Right)
P-15366	**P-15366**	1⅛' Venturi (Left)
P-15405	**P-15405**	093 By Pass Jet
P-15476	**P-16135**	Idle Tube No 68 Feed Hole
P-15477	**P-15477**	No 42 Idle Air Bleeder
P-15478	**P-17402**	Idle Needle Valve
P 16130	**P-16878**	Air Horn (Complete)
P-16139 **P-12788** **P-5856** **P-13790** **P-14159**	**P-17131**	Thro Lever with Stem and Cam
P 16460	**P-15816**	Choke Valve Stem
P-16491	**P-16701**	Pump Lever
P 16513	**P-15811**	Choke Valve
P-17142	**P-16810**	Thro Valve Body, No 56-58 Idle Holes
None Shown	**P-13127**	Econ Peducer No 68
None Shown	**P-13828**	Choke Stem Bushing

REPLACEMENT EQUIPMENT

PARTS AND SETTINGS EXCEPTIONS MODEL UUR-2 STANDARD CARBURETOR

(Passenger Cars and Trucks)

AUBURN 1928-29 MODEL "120" AND "125"

3¼' x4½'—8-Cylinder Engine

J-4143 UUR-2 Carburetor (Code No 17-13)

Std Part No	Special Part No	Used on Above Model Car
P-3222	P-8644	Union Elbow
P-5856	P-7887	Throttle Lever
P-12680	P-12677	Choke Tube Holder
P-14000	P-14072	Choke Lever
P-15365	P-15365	1$\frac{1}{16}$ Venturi (Right)
P-15366	P-15366	1$\frac{1}{16}$' Venturi (Left)
P-15405	P-15405	035' Econ Needle and By-Pass Jet
P-15494	P-15494	049' Main Metering Jet
P-16130	P-16502	Air Horn (Complete)
P-16139	P-16259	Throttle Lever Stem
None Shown	P-16554	Choke Stem Bushing
None Shown	P-12428	Loose Lever
None Shown	P-6123	Loose Lever Stop

AUBURN 1928-29 30
MODELS "8-88", "8-90", "8-95"

2⅞' x4¾"—8-Cylinder Engine

J-4148 UUR-2 Carburetor (Code No 17-12)

Std Part No	Special Part No	Used on Above Model Car
P-3223	P-8644	Union Elbow
P-5856	P-7887	Throttle Lever
P-12680	P-12677	Choke Tube Holder
P-14000	P-14072	Choke Lever ... .
P-16130	P-16502	Air Horn (Complete)
P-16139	P-16259	Throttle Lever Stem
None Shown	P-16554	Choke Stem Bushing
None Shown	P-12428	Loose Lever
None Shown	P-6123	Loose Lever Stop

NOTE Pump Needle open 1 turn

BLACK HAWK 1929-30 MODEL "L-8"

3"x4¾"—8-Cylinder Engine

J-4152 UUR 2 Carburetor (Code No 56-4)

Std Part No	Special Part No	Used on Above Model Car
P-3222	P-4558	Union Elbow
P-5856	P-13296	Throttle Lever (17/64' on 1⅜" CC) on Right Side
P-13829	P-13829	No 30 Main Discharge Jet, No 72 H S Bleeder
P-15405	P-15405	035 Econ Needle and By-Pass Jet
P-16139	P-15503	Throttle Stem
P-16491	P-15967	Pump Lever
P-17142	P-15961	Thro Valve Body, No 56-58 Idle Holes

CORD 1930

3¼"x4½ —8-Cylinder Engine

J-4140 UUR-2 Carburetor and Equipment (Code No 102-1)

Std Part No	Special Part No	Used on Above Model Car
P-3222	P-8644	Union Elbow
P-5856	P-8221	Throttle Lever
P-12680	P-15671	Choke Tube Holder
P-12933	P-14716	Air Horn (Casting)
P-13829	P-16445	No 40 Main Discharge Jet with No 60 High Speed Bleeder
P-15365	P-15365	1⅛" Venturi (Right)
P-15366	P-15366	1⅛" Venturi (Left)
P-15405	P-15405	052' Econ Needle and By-Pass Jet
P-15491	P-15491	No 72 Pump Discharge Tube
P-15494	P-12512	056" Main Metering Jet
P-16130	P-17945	Air Horn (Complete)
P-16139	P-16259	Throttle Lever Stem
P-16460	P 15816	Choke Stem
P-16513	P-16951	Choke Valve
P-17142	P-17479	Throttle Valve Body No 58-56 Idle Holes
None Shown	P-14073	Choke Stem Bushing
None Shown	P-15784	Loose Lever
None Shown	P-8123	Loose Lever Stop

NOTE Pump Travel $\frac{7}{16}$"

NOTE Pump Capacity 10 to 12 CC per 10 strokes

NOTE Throttle Valve Location Flush, plus or minus 002

EQUIPMENT

P-2430 Stud—P-18165 Gasket

GARDNER 1929 31 MODELS "130", "150", "158"

3¼' x4½"—8-Cylinder Engine

J-4153 UUR 2 Carburetor (Code No 166-1)

Std Part No	Special Part No	Used on Above Model Car
P-3222	P-8644	Union Elbow
P-5856	P-7887	Throttle Lever
P-12680	P-12677	Choke Tube Holder
P-14000	P-14072	Choke Lever
P-15365	P-15365	1$\frac{1}{16}$" Venturi (Right)
P-15366	P-15366	1$\frac{1}{16}$" Venturi (Left)
P-15405	P-15405	035" Econ Needle and By-Pass Jet
P-15494	P-15494	049' Main Metering Jet
P-16130	P-16502	Air Horn (Complete)
P-16139	P-16259	Throttle Lever Stem
None Shown	P-16554	Choke Stem Bushing
None Shown	P-12428	Loose Lever
None Shown	P-6123	Loose Lever Stop

GARDNER 1930-31 MODELS "140" AND "148"

2⅞' x4¾"—8-Cylinder Engine

J 4154 UUR-2 Carburetor

Std Part No	Special Part No	Used on Above Model Car
P-3222	P-8644	Union Elbow
P-5856	P-7887	Throttle Lever
P-12680	P-12677	Choke Tube Holder
P-14000	P-14072	Choke Lever
P-16130	P-16502	Air Horn (Complete)
P-16139	P-16259	Throttle Lever Stem
None Shown	P-16554	Choke Stem Bushing
None Shown	P-12428	Loose Lever
None Shown	P-6123	Loose Lever Stop

NOTE Pump Needle open 1 turn

HUPP 1928 MODEL 'E & M"

3"x4¼"—8 Cylinders

J-4583 UUR 2 Carburetor (Code No 19-19)

Std Part No	Special Parts	Used on Above Model Car
P-5856	P-12815	Throttle Lever
P-12680	P-11961	Choke Lever Stop
P-12933	P-13599	Air Horn Casting
P-13829	P-16455	No 28 Main Discharge Jet
P-15491	P-15491	No 70 Pump Discharge Tubes
P-16130	P-13600	Elbow Air Horn Assembly
P-16460	P-13598	Choke Lever and Stem
P-16513	P-10146	Choke Valve
P-20904	P-4522	Choke Valve Screws
None Shown	P-13170	Fuemer Plate
None Shown	P-13171	Fuemer Plate Gasket
None Shown	P-11724	Fuemer Plate Attaching Screw
None Shown	P-12606	Fuemer Plate Lockwasher

JORDAN 1928 MODELS "JE" AND "G"

3"x4¾" Continental "14-S" and "15-S" 8-Cylinder Engine

J-4225 UUR-2 Carburetor and Equipment (Code No 76-2)

Std Part No	Special Part No	Used on Above Model Car
P-5856	P-12392	Throttle Lever
P-12933	P-13810	Air Horn (Casting)
P-14000	P-14072	Choke Lever
P-15365	P-15365	1 Venturi (Right)
P-15366	P-15366	1 Venturi (Left)
P-15405	P-15405	025 Econ Needle and By-Pass Jet
P-15494	P-15494	045 Main Metering Jet
P-16130	P-14076	Air Horn (Complete)
P-16460	P-14075	Choke Stem
P-16513	P-13830	Choke Valve
P-17142	P-16731	Throttle Valve Body 58-56 Idle Holes
None Shown	P-14073	Choke Stem Bushing
None Shown	P-13824	Choke Stem
None Shown	P-13813	Choke Valve Spring Block
None Shown	P-285	Choke Valve Spring Screw
None Shown	P-13825	Choke Valve Spring Clamp Washer
None Shown	P-13811	Choke Valve Spring
None Shown	P-1693	Choke Valve Sprg Screw Lockwasher

NOTE Throttle Valve Location Flush, plus or minus, 002

EQUIPMENT

P-12646 Gasket

LOCOMOBILE 1928 MODEL "8-80"

3¼"x4½' —8-Cylinder Lycoming Model "HD" and "HMD" Engines

J-4292 UUR-2 Carburetor

Std Part No	Special Part No	Used on Above Model Car
P-12680	P-18962	Choke Lever Stop
P-12933	P-13325	Air Horn (Casting)
P-14000	P-12961	Choke Lever
P-16130	P-13359	Air Horn (Complete)
P-16460	P-12629	Choke Stem
P-16513	P-10146	Choke Valve
None Shown	P 7990	Pipe Plug
None Shown	P-13170	Fumer Cover
None Shown	P-13171	Fumer Cover Gasket
None Shown	P-12606	Fumer Cover Screw Lockwasher
None Shown	P-11724	Fumer Cover Screws

LOCOMOBILE 1928-'29 "70"

3" x 4¾" 8 Cyl.

J-4174 UUR-2 Carburetor and Equipment

Std Part No	Special Part No	Used on Above Model Car
P-3222	P-3221	Union Elbow
P-5856	P-13146	Thro Lever
P-15365	P-15365	1 Venturi (Right)
P-15366	P-15366	1' Venturi (Left)
P-15405	P-15405	093 By Pass Jet
P-15494	P-15494	045" Meter Jet
P-15540	P-16452	Strainer Plug
P-17142	P-16731	Thro Valve Body with No 58 Lower No 56 Top Idle Holes
None Shown	P-13127	No 72 Econ Reducer

EQUIPMENT

P-640 Cap Screws—P-8838 Lock Washers—P-12646 Gasket

REPLACEMENT EQUIPMENT

PARTS AND SETTINGS EXCEPTIONS MODELS UUR-2 STANDARD CARBURETOR

(Passenger Cars and Trucks)

MARMON 1930-31
MODELS "BIG 8", "H" AND "88"
3¼"x4¾"—8-Cylinder Engine
J-4136 UUR-2 Carburetor

Std. Part No	Special Part No	Used on Above Model Car
P-5856	P-13926	Throttle Lever
P-12680	P-12823	Choke Tube Holder
P-12706	P-16432	Pump Piston
P-12788	P-15196	Throttle Stop
P-12933	P-14716	Air Horn (Casting)
P-13790	P-12496	Pump Cam
P-13829	P-16445	No 40 Main Discharge Jet with No 60 High Speed Bleeder
P-15365	P-15365	1 1/16' Venturi (Right)
P-15366	P-15366	1 1/16" Venturi (Left)
P-15405	P-15405	048" By-Pass Jet
P-15491	P-15491	No 74 Pump Discharge Tube
P-15494	P-15494	052" Main Metering Jet
P-16130	P-16439	Air Horn (Complete)
P-16139	P-16440	Throttle Lever and Stem
P-16460	P-16420	Air Horn Lever and Stem
P-16491	P-16435	Pump Lever
P-16494	P-16433	Pump Sleeve
P-16513	P-16446	Choke Valve
None Shown	P-16425	Pump By-Pass Jet
None Shown	P-16437	Link (Upper)—Warming Up Device
None Shown	P-16438	Link (Lower)
None Shown	P-16436	Fulcrum Screw
None Shown	P-11724	Screws
None Shown	P-14813	Washer
None Shown	P-15346	Lockwashers
None Shown	P-9284	Nuts
None Shown	P-11250	Washers

EQUIPMENT

P-12646 Gasket—P-11209 Gas Line Extension—P-3279 Union Nipple—P-16486 Air Cleaner

METEOR 1927-28 HEARSE
3"x4¾' 8 Cylinder Cont 15-S Engine
J-4591 UUR-2 Carburetor (Code No 129-3)

Std. Part No.	Special Parts	Used on Above Model Car
P-15365	P-15365	1 Venturi (Right)
P-15366	P-15366	1" Venturi (Left)
P-15494	P-15494	045' Metering Jet
None Shown	P-3222	Elbow Union

PEERLESS 1929 MODEL "125"
3⅜"x4½" 8 Cyl Cont 12K Eng
J-4641 UUR-2 Carburetor (Code No 58-5)

Std Part No	Special Parts	Used on Above Model Car
P-5856	P-14096	Throttle Lever
P-12680	P-13888	Choke Tube Holder
P-14000	P-14168	Choke Lever
P-15365	P-15365	1⅛" Venturi
P-15366	P-15366	1⅛" Venturi
P-15405	P-15405	036' By-Pass Jet
P-15494	P-15494	050' Metering Jet

PEERLESS 1931 "CUSTOM 8"
3⅜"x4½" 8 Cyl.
J-4157 UUR-2 Carburetor and Equipment

Std Part No	Special Parts	Used on Above Model Car
P-5856	P-8221	Blank Thro Lever (Drilled 3/16" on 1½" Centers)
P-15365	P-15365	1⅛" Venturi (Right)
P-15366	P-15366	1⅛" Venturi (Left)
P-15405	P-15405	.036" By Pass Jet
P-15494	P-15494	050" Meter Jet
P-16139	P-16259	Thro Stem
None Shown	P-14677	Loose Thro Lever
None Shown	P-6123	Loose Lever Stop

EQUIPMENT

P-12646 Gaskets

PEERLESS 1930-'31 "STANDARD 8"
2⅞"x4¾" 8 Cyl
J-4158 UUR-2 Carburetor and Equipment

Std. Part No	Special Parts	Used on Above Model Car
P-5856	P-8221	Blank Thro Lever (Drill 3/16" on 1¼" Centers)
P-12680	P-16255	Tube Holder
P-15405	P-15405	026" By Pass Jet
P-16139	P-16259	Thro Lever Stem
None Shown	P-14677	Loose Thro Lever
None Shown	P-6123	Loose Lever Stop

EQUIPMENT

P-12646 Gasket

REO 1931-32 ROYAL "8"
3⅜"x5"—8-Cylinder Engine
J-4265 UUR-2 Carburetor and Equipment (Code No. 12-15)

Std. Part No.	Special Part No	Used on Above Model Car
P-3222	P-3221	Union Elbow
P-5856	P-18167	Throttle Lever
P-12680	P-15289	Choke Tube Holder
P-12933	P-14716	Air Horn (Casting)
P-14000	P-14936	Choke Lever
P-15365	P-15365	1⅛" Venturi (Right)
P-15366	P-15366	1⅛" Venturi (Left)
P-15405	P-15405	032" Econ Needle and By-Pass Jet
P-15494	P-13395	046' Main Metering Jet
P-16130	P-16926	Air Horn (Complete)
P-16460	P-15816	Choke Stem
P-16513	P-16591	Choke Valve
P-17142	P-17479	Throttle Valve Body, No 58-56 Idle Holes

NOTE Pump Needle open 1½ turns

EQUIPMENT

P-18165 Gasket—P-9886 Fuel Line (20" Long)

STUDEBAKER 1928-29 MODELS FE-FH PRESIDENT
3½"x4⅜ —8 Cylinder Engine
J-4678 UUR-2 Carburetor (Code No. 6-60)

Std Part No	Special Part No	Used on Above Model Car
P-5856	P-13848	Throttle Lever
P-10344	P-11566	Float Fulcrum Pin
P-12680	P-15289	Choke Tube Holder
P-12933	P-15288	Air Horn (Casting)
P-14000	P-14936	Choke Lever
P-15365	P-15365	1⅛' Venturi (Right)
P-15366	P-15366	1⅛" Venturi (Left)
P-15405	P-15405	0935 By-Pass Jet
P-15458	P-5709	Idle Air Channel Screw Plug
P-15459	P-12780	Idle Channel Screw Plug
P-15494	P-15494	050' Main Metering Jet
P-15668 P-16942	P-13165	Pump Lever Torsion Spring
P-16130	P-13816	Air Horn (Complete)
P-16139	P-15503	Throttle Lever Stem
P-16460	P-15777	Choke Lever Stem
P-16494	P-15965	Pump Sleeve and Link
P-16513	P-15571	Choke Valve
P-16716	P-4522	Throttle Valve Screws
P-16941	P-15967	Pump Lever Complete
P-16996	P-7098	Vacuum Suction Channel Screw Plug
P-17142	P-15961	Thro Valve Body No 58-56 Idle Holes
None Shown	P-14073	Choke Stem Collar
None Shown	P-13127	No 70 Economizer Reducer
None Shown	P-7170	Cotter Pin

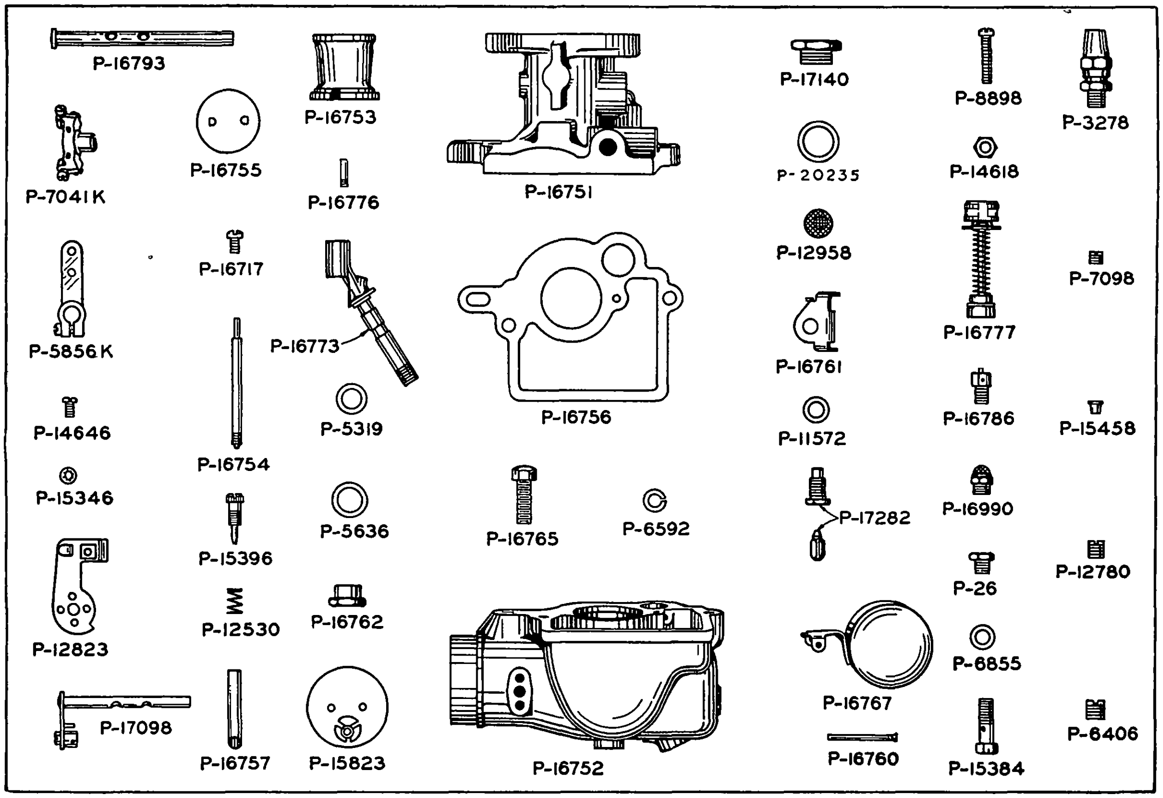
NOTE Pump Travel 25/32

STUTZ 1926 TO 1931 "AA", "BB", "MA" AND "MB"
3¼"x4½" 8 Cyl
J-4161 UUR-2 Carburetor and Equipment (Code No 56-3)

Std Part No	Special Part	Used on Above Model Car
P-3222	P-3278	Gas Union
P-5856	P-7887	Thro Lever and Screw
P-15365	P-15365	1 1/16" Venturi (Right)
P-15366	P-15366	1 1/16" Venturi (Left)
P-15405	P-15405	036" By Pass Jet
P-15494	P-15494	049' Meter Jet
P-16139	P-16259	Thro Stem
None Shown	P-16040	Loose Thro Lever
None Shown	P-6123	Loose Lever Stop

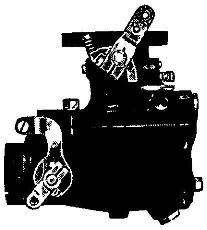
EQUIPMENT

P-12646 Gasket



SF-1 N . A-16221
1" CARB SAE

SF-2 N . A-16222
1¼" CARB. SAE



Notes and References.

Parts SF-2 illustrated, corresponding SF-1 parts shown in listing below

Car models having this carburetor with parts exceptions therefor are shown on back of this page

‡Indicates Sub assembly part

†These parts not illustrated

NOTE P-15384 changed ot P-12802

PARTS LISTS STROMBERG MODELS "SF-1" AND "SF-2" STANDARD CARBURETORS

SF-1 Part No	SF-2 Part No	Name
P-26	P-26	Gas Inlet Pipe Plug
P-3278	P-3278	Gas Union
P-6855	P-21372	Main Discharge Jet Gasket
	P-5636	Main Discharge Jet Nut Gasket
P-5845K	P-5856K	Throttle Lever (Comp)
‡P-3199	‡P-3199	Throttle Lever Clamp Screw
P-6406	P-6406	Idle Channel Plug
P-6592	P 6592	Attach Screw Lockwasher
P-6855	P-6855	Metering Jet Gasket
P-6893K	P-7041K	Throttle Stop (Comp)
‡P-12375	‡P-12375	Throttle Stop Set Screw
‡P-47	‡P-2266	Throttle Stop Clamp Screw
P-7098	P-7098	Pump Channel Plug
P-11572	P-11572	Float Hanger Gasket
P-11572	P-11572	Float Needle Seat Gasket
P-12530	P-12530	Idle Needle Valve Spring
P-12537	P-15823	Choke Valve
P-12780	P-12780	Idle Channel Plug
P-12802	P-12802	Adj Metering Jet
‡P-12803	‡P-12803	Adj Metering Jet Nut
‡P-1503	‡P-1503	Adj Metering Jet Packing
P-12823	P-12823	Choke Tube Holder (Comp)
‡P-11561	‡P-11561	Choke Tube Clamp
‡P-12868	‡P-12868	Choke Tube Clamp Screw
‡P-8806	‡P-8806	Choke Tube Clamp Nut
P-12958	P-12958	Gas Strainer
†P-14160	P-14160	Idle Tube Cork Washer
P-14618	P-14618	Pump Adj Screw Nut
P-14646	P-14646	Choke Tube Attach Screw
P-15346	P-15346	Choke Tube Lockwasher
P-15396	P-15396	Idle Needle Valve
P 15458	P 15458	Pump Channel Drive Plug
†P-16318	P-16318	Compression Union (sent separate)

SF-1 Part No	SF-2 Part No	Name	
P-16717	P-16716	Throttle Valve Screw	
P-16717	P-16717	Choke Valve Screw	
*P-16860	P-16751	Throttle Valve Body	(VAR)
P-16861	P-16752	Main Body	
*P-16872	P-16753	Venturi Tube	(VAR)
P-16874	P-16754	Idle Tube	
*P-17916	P-16755	Throttle Valve	(VAR)
P-16870	P-16756	Main Body Gasket	
P-16871	P-16757	Vent Tube	
P-16758	P-16758	Choke Stem Bushing	
P-16760	P-16760	Float Fulcrum Pin	
P-16761	P-16761	Float Hanger	
	P-16762	Main Discharge Jet Nut	
P-16879	P-16765	Main Body Attach Screw	
P-16767	P-16767	Float (Comp)	
*P-16873	P-16773	Main Discharge Jet	(VAR)
*P-12870	P-16776	High Speed Bleeder	(VAR)
P-16777	P-16777	Pump Assembly (Comp)	
*P-16786	P-16786	Pump By-Pass Jet	(VAR)
P-16875	P-16793	Throttle Stem (Comp)	
	P-16850	Locating Pin	
P-16990	P-16990	Pump Check Valve	
P-17097	P-17098	Choke Lever with Stem	
‡P-10981	‡P-10981	Choke Wire Clamp Screw	
P-15540	P-17140	Gas Strainer Plug	
P-17281	P-17282	Float Needle Valve and Seat	
P-15457		Pump Channel Drive Plug	
P-8898	P-5546	Pump Adj Screw	
P-20235	P-20235	Strainer Plug Gasket	
P-21193	P-21193	Vacuum Channel Reducer	
†P-22394	P 22394	Copper Tubing (sent separate)	
P 22713	P-22713	Idle Tube Washer	

J 4269 G SF-1 Complete Gasket Set
J-4222 G SF-2 Complete Gasket Set

*NOTE On parts marked (VAR) size must be specified when ordering

STANDARD SPECIFICATIONS

A-16221 SF-1 Carburetor (Code No 1-11)

P-12870	No 65 H S Bleeder
P-15384	046 Meter Jet
P-16786	028' By Pass Jet
P-16860	Thro Valve Body with No 56-70 Idle Holes Flange Tapped $\frac{5}{16}$-18"
P-16872	⅞ Venturi
P-16873	No 32 Main Disch Jet
P-16874	Idle Tube No 70 Feed and No 62 Top Holes
P-17916	Throttle Valve (20°)

A-16222 SF-2 Carburetor (Code No 1-12)

P-15384	048 Meter Jet
P-16751	Thro Valve Body with No 58-66 Idle Holes Flange Tapped ⅜-16"
P-16753	1$\frac{1}{32}$ Venturi
P-16754	Idle Tube No 68 Feed and No 62 Top Hole
P-16755	Throttle Valve (20°)
P-16773	No 32 Main Disch Jet and Small Venturi Tube
P-16776	No 60 H S Bleeder
P-16786	028' By Pass Jet

STANDARD SETTING FOR SF-1-2 CARBURETOR

Throttle Valve Location Lower lip of Throttle Valve to be flush plus or minus 004 with top of lower idle hole

Pump Travel Maximum (Full Travel of Pump)

Fuel Level $\frac{9}{16}$ below top face of Float Chamber at 2 pounds pressure

NOTE Hold Carburetor with Float Chamber toward you when determining left and right side

SPECIFICATIONS OF STANDARD EQUIPPED TRUCKS
PARTS AND SETTINGS EXCEPTIONS MODELS SF-1-2 STANDARD CARBURETOR

AVAILABLE TRUCK

3⅜"x4¾'—6-Cylinder (Wauk TL Eng)

F 2165—SF-2 Carburetor (Code No 70-1)

Std Part No	Special Part No Used on Above Model Truck	
P-5856	P-8123	Thro Lever (17/64 on 1 and 1½ CC on Right Side
P-16753	P-16753	1' Venturi
P-16793	P-19397	Throttle Setm
P-17098	P-21109	Choke Lever and Stem (Lever on Left Side)
None Shown	P-21110	Loose Lever on Left Side
None Shown	P-6123	Loose Lever Stop

CORBITT TRUCK MODEL "344"

3⅜"x4⅝"—6 Cyl Cont 16-C Eng

F-3528 SF-2 Carburetor (Code No 64-1)

Std Part No	Special Parts Used on Above Model Truck	
P-12802	P-15384	050 Metering Jet
P-16753	P-16753	1$\frac{1}{16}$' Venturi
P-16793	P-19397	Throttle Lever Stem
None Shown	P-13884	Loose Lever on Right Side
None Shown	P-17287	Loose Lever Stop

CORBITT TRUCK

4¼'x5"—4 Cylinders

F-3343 SF-2 Carburetor (Code No 64 7)

Std Part No	Special Parts Used on Above Model Truck	
P-15384	P-15384	057 Metering Jet
P-16753	P-16753	1$\frac{1}{16}$' Venturi
P-16793	P-19397	Throttle Stem
None Shown	P-13884	Loose Lever on Right Side
None Shown	P-17287	Loose Lever Stop

CORBITT TRUCK

3⅜"x4"—6 Cylinder Cont 25-A Eng

F-3832 SF-2 Carburetor (Code No 64 6)

Std Part No	Special Parts Used on Above Model Truck	
P-12802	P-15384	050' Metering Jet
P-16753	P-16753	1$\frac{1}{16}$' Venturri
P-16773	P-16773	No 28 Main Discharge Jet
P-16786	P-16786	036' By-Pass Jet
P-16793	P-19397	Throttle Stem
None Shown	P-13884	Loose Lever on Right Side
None Shown	P-17287	Loose Lever Stop

GENERAL MOTORS TRUCK 1934 "T-73" (052904)

3$\frac{7}{16}$"x4⅝" 6 Cyl

A-17802 SF-2 Carburetor (Code No 23-6)

Std Part No	Special Parts Used on Above Model Truck	
P-5856-K	P-19909	Thro Lever and Screw
P-12802	P-15384	054' Metering Jet
P-15823	P-19906	Air Horn Valve
P-16751	P-20205	Thro Valve Body with No 58-66 Idle Holes and Flange Drilled 13/32"
P-16752	P-19910	Main Body
P-16753	P-16753	1⅛ Venturi
P-16786	P-16786	036" By Pass Jet
P-17098	P-19907	Air Horn Lever and Stem
None Shown	P-17081	Collar
None Shown	P-16161	Set Screw
None Shown	P-16764	Stop Pin

INTERNATIONAL HARVESTER TRUCK
MODELS "A-2" AND "B-2" 1½-TON

3⅞"x4½"—4 Cylinder

F-1818 SF-1 Carburetor (Code No 32-12)

Std Part No	Special Parts Used on Above Model Truck	
P-5845	P-16727	Throttle Lever on Right Side
P-12802	P-15384	051' Metering Jet
P-12823	P-11969	Choke Tube Holder on Right Side
P-12870	P-12870	No 56 High Speed Bleeder
P-16786	P-16786	040' By-Pass Jet
P-16872	P-16872	1$\frac{5}{16}$' Venturi
P-16873	P-16873	No 40 Main Discharge Jet
P-17097	P-16876	Choke Lever and Stem

INTERNATIONAL HARVESTER CO TRUCK 1932 MODEL "A-3"

3¼ x 4½" 6 Cyl

A-16252 SF-2 Carburetor

Std Part No	Part Used on Above Model Truck	
P-16793 P-5856-K P-7041 K	P-17105	Thro Lever and Stem
P-12802	P-15384	054 Metering Jet
P-15823	P-15378	Air Horn Valve
P-16751	P-16751	Thro Valve Body with No 52-66 Idle Holes Fl Tapped ⅜-16'
P-16776	P-16776	No 56 H S Bleeder
P 16786	P 16786	032 By Pass Jet
P-17282	P-17281	Float N V and Seat

NOTE Set Pump Adj Screw 1$\frac{5}{16}$ from top of nut to lower edge of screw (P-5546) head

INTERNATIONAL HARVESTER CO 1932 MOD "A-3 SPEC" (34374-H)

(3¼ x4½"—6 Cyl (Janeway Head)

A-17272 SF-2 Carburetor (Code No 32-1)

Std Part No	Part Used on Above Model Truck	
P-3278	P-3221	Union Elbow
P-5856-K	P-18304-K	Thro Lever on Right Side
P-7041-K	P-16795	Thro Stop
P-12802	P-15384	058' Metering Jet
P-16753	P-16753	1⅛' Venturi
P-16786	P-16786	026 By Pass Jet
P-16793	P-18306	Thro Stem

INDIANA TRUCK (60094)

4 x5" 4-Cyl Hercules OX Engine

F-2679 SF-2 Carburetor (Code No 30-13)

Std Part No	Special Parts Used on Above Model Truck	
P-3278	P-3221	Elbow Union
P-16751	P-16751	Thro Valve Body No 58-66 Idle Holes, Flanged tapped ($\frac{5}{16}$-18)
P-16753	P-16753	1$\frac{5}{16}$" Venturi
P-5856	P-8123-K	Throttle Lever on Right Side

INDIANA TRUCK

4¼"x5¾ —4-Cylinder (Her "K" Eng)

F-2743 SF-2 Carburetor (Code No 30-4)

Std Part No	Special Parts Used on Above Model Truck	
P-12823	P-11969	Tube Holder on Right Side
P-16753	P-16753	1 Venturi
P-17098	P-21101	Choke Lever and Stem

REO MOTORS 1934 2-TON TRUCK

3⅜'x5"—6-Cylinder

A-17852 SF-2 Carburetor (Code No 12-5)

Std Part No	Special Parts Used on Above Model Truck	
P-10001-K	P-13425-K	Throttle Lever on Left Side
P-12802	P-15384	056 Metering Jet
P-16751	P-16751	Throttle Valve Body with No 55-66 Idle Holes Fl tapped ⅜-16"
P-16752	P-20212	Main Body
P-16753	P-16753	1$\frac{3}{16}$ Venturi Tube
P-16755	P-20206	Throttle Valve (200) with No 45 Hole
P-16776	P-16776	No 65 H S Bleeder
P-16786	P-16786	048 By-Pass Jet
None Shown	P-20211	No 56 Pump Reducer

PARTS AND SETTINGS EXCEPTIONS MODELS SF-1-2 STANDARD CARBURETORS

ADDITIONAL

MACK MODEL "EE" 1938 (2EJA124)
3-1/2x4-3/8 6 Cylinder FC-253 Engine

A-18922 SF-2 Carburetor (Code No. 24-121A)

Standard Part No.	Special Part No.	Used on Above Model
P-5856-K	P-23775-K	Assembly -- Throttle Lever
P-12802	P-15384	.052" Metering Jet
P-15823	P-22929	Assembly Choke Valve
P-16751	P-23776	Assembly - Throttle Body - #58-66 Idle Holes
P-16752	P-22884	Assembly -- Main Body
P-16753	P-16753	Venturi Tube -- 1-1/8"
P-16754	P-23722	Idle Tube -- #72
P-16773	P-16773	Assembly Main Discharge Jet & Small Venturi #32
P-16776	P-16776	High Speed Bleeder #70
P-16786	P-16786	Assembly By-pass Jet .030"
P-17098	P-22927	Choke Lever and Stem
None Shown	P-3881	Pin -- Choke
	P-13828	Bushing, Choke Lever Spacer
	P-16161	Set Screw -- Choke Stem Collar
	P-17081	Collar -- Choke Stem
	P-17187	Pin -- Throttle Stop

A-18702 SF-2 STANDARD CARBURETOR
(With Offset Choke) Code No. 1-70)

Standard Part No.	Special Part No.	Used on Above Model
P-15823	P-22929	Assembly -- Choke Valve
P-16752	P-22884	Assembly -- Main Body
P-16753	P-16753	Venturi Tube -- 1-1/32"
P-16754	P-16754	Idle Tube -- #68
P-16773	P-16773	Assembly Main Discharge Jet & Small Venturi #32
P-16776	P-16776	High Speed Bleeder -- #60
P-16786	P-16786	Assembly by-pass Jet .028"
P-17098	P-22927	Assembly Choke Lever & Stem
None Shown	P-3881	Pin -- Choke Stem
	P-13828	Bushing -- Choke Lever Spacer
	P-16161	Set Screw -- Choke Stem Collar
	P-17081	Collar -- Choke Stem

YELLOW TRUCK & COACH MFG. COMPANY
1937 (069827) Models F-18 & F-18H
Engine Model 239

A-18522 SF-2 Carburetor (Code No. 23-54A)

Standard Part No.	Special Part No.	Used on Above Model
P-5856-K	P-22881	Assembly Throttle Lever
P-7041-K	P-22948	Assembly -- Throttle Stop
P-12802	P-15384	Metering Jet .054"
P-15823	P-22929	Assembly -- Choke Valve (A)
P-16751	P-22880	Assembly -- Throttle Body - #58-66 Idle Holes
P-16752	P-22884	Assembly Main Body
P-16753	P-16753	Venturi Tube 1-1/16"
P-16773	P-16773	Assembly -- Main Disch. Jet & Small Venturi #32
P-16776	P-16776	High Speed Bleeder #60
P-16786	P-16786	Assembly By-pass Jets .036"
P-17098	P-22927	Assembly -- Choke Lever and Stem

MACK 1938 (2EJA38A)

A-18852 SF-2 Carburetor (Code No. 24-119A)

Standard Part No.	Special Part No.	Used on Above Model
P-5856-K	P-23775-K	Assembly -- Throttle Lever
P-15384	P-15384	Metering Jet .054"
P-15823	P-22929	Assembly -- Choke Valve (A)
P-16751	P-23776	Assembly Throttle Body -- #58-66 Idle Holes
P-16752	P-22884	Assembly Main Body
P-16753	P-16753	Venturi Tube -- 1-3/16"
P-16754	P-23722	Idle Tube #72
P-16773	P-16773	Assembly Main Discharge Jet & Small Venturi #32
P-16786	P-16786	Assembly By-pass Jet .030"
P-17098	P-22927	Assembly -- Choke Lever & Stem
None Shown	P-3881	Pin -- Choke Stem
	P-13828	Bushing -- Choke Lever Spacer
	P-16161	Set Screw -- Choke Stem Collar
	P-17081	Collar -- Choke Stem

A-18701 SF-1 STANDARD CARBURETOR
(With off-set Choke) (Code No. 1-71)

Standard Part No.	Special Part No.	Used on Above Model
P-12537	P-22383	Choke Valve
P-12870	P-12870	High Speed Bleeder #65
P-16786	P-16786	Assembly By-pass Jet .028"
P-16860	P-16860	Assembly -- Throttle Body #56-70 Idle Holes
P-16861	P-22381	Assembly Main Body
P-16872	P-16872	Venturi Tube 7/8"
P-16873	P-16873	Main Discharge Jet #32
P-16874	P-16874	Idle Tube #70
P-17097	P-23749	Assembly -- Choke Lever and Stem
P-17281	P-17282	Float Needle Valve & Seat
None Shown	P-13828	Bushing -- Choke Lever Spacer
	P-21029	Pin -- Choke Valve Stop

SPECIFICATIONS OF STANDARD EQUIPPED TRUCKS
PARTS AND SETTINGS EXCEPTIONS MODELS SF-1-2 STANDARD CARBURETOR (Continued)

REO MOTORS 1935 (1133)
3⅜"x5"—6-Cylinder (S-3 Eng)
A-18122 SF-2 Carburetor (Code No 12-16)

Std Part No	Special Parts Used on Above Model Truck	
P-5856	P-13427-K	Thro Lever on Right Side
P-12802	P-15384	056" Metering Jet
P-12823	P-11969	Choke Tube Holder
P-16751	P-16751	Thro Valve Body with 55-66 Idle Holes and Flange Tapped ⅜-16"
P-16752	P-20212	Main Body
P-16753	P-16753	$1\frac{3}{16}$" Venturi
P-16755	P-20206	20° Thro Valve (with No 45 Holes)
P-16776	P-16776	No 65 H S Bleeder
P-16786	P-16786	028" By-Pass Jet
P-17098	P-16797	Choke Lever and Stem
None Shown	P-20211	No 56 Pump Reducer

NOTE Set Pump Adj Screw $1\frac{3}{16}$" from top of Nut to lower edge of Screw (P-5546) Head (minimum setting)

REO TRUCK 1935 "1½ TON" (4059)
$3\frac{3}{16}$"x4⅜"—6 Cylinder
A-18172 SF-2 Carburetor (Code No 12-19)

Std Part No	Special Parts Used on Above Model Truck	
P-5856-K	P-13245-K	Throttle Lever on Right Side
P-12802	P-15384	052" Metering Jet
P-12823	P-11969	Choke Tube Holder on Right Side
P-16751	P-16751	Throttle Valve Body No 55-66 Idle Holes and Flange Tapped ⅜-16"
P-16752	P-20212	Main Body
P-16753	P-16753	1⅛' Venturi Tube
P-16755	P-20206	Throttle Valve 20°
P-16776	P-16776	No 65 High Speed Bleeder
P-16786	P-16786	048" By-Pass Jet
P-17098	P-16797	Choke Lever and Stem
None Shown	P-20211	No 56 Pump Reducer

WHITE TRUCK (D-13908)
3¾"x4½"—6 Cylinder Own 4 A. B Eng
F-2864 SF-2 Carburetor (Code No. 29-13)

Std Part No	Special Parts Used on Above Model Truck	
P-16753	P-16753	1⅛" Venturi
P-16786	P-16786	026" By-Pass Jet

YELLOW TRUCK AND COACH MFG CO 1937 MODEL 257 (069811)
A-18512 SF-2 Carburetor (Code No 23-49)

Std Part No	Special Parts Used on Above Model	
P-5856-K	P-22881	Throttle Lever Assy
P-12802	P-15384	054 Metering Jet
P-15823	P-22929	Choke Valve Assy
P-16751	P-22880	Throttle Body No 58-66 Idle Holes Flange Drilled 13/32 on $2\frac{1}{16}$ Centers
P-16752	P-22884	Main Body
P-16753	P-16753	1⅛' Venturi
P-16786	P-16786	036 By-Pass Jet
P-17098	P-22927	Choke Lever and Stem

YELLOW TRUCK AND COACH MFG CO 1937 MODEL 286 (069828)
A-18532 SF-2 Carburetor (Code No 23-55)

Std Part No	Special Parts Used on Above Model	
P-5856-K	P-22881	Throttle Lever Assy
P-12802	P-15384	054' Metering Jet
P-15823	P-22929	Choke Valve Assy
P-16751	P-22880	Throttle Body No 58 66 Idle Holes Flange Drilled 13/32 on $2\frac{1}{16}$" Centers
P-16752	P-22884	Main Body
P-16753	P-16753	1¼' Venturi
P-16786	P-16786	032' By Pass Jet
P-17098	P-22927	Choke Lever and Stem

SPECIFICATIONS OF STANDARD EQUIPPED INDUSTRIAL EQUIPMENT PARTS AND SETTINGS EXCEPTIONS MODELS SF-1-2 STANDARD CARBURETORS

FATE ROOT HEATH 1933

4 'x5¼'—4 Cylinder (Buda KTU Eng)

F-2646—SF-2 Carburetor (Code No 92-1)

Std Part No	Special Part No Used on Above Model	
P-12828	P-11969	Choke Tube Holder on Right Side
P-16752	P 20892	Main Body
P-16753	P-16753	15/16 Venturi
P-17098	P-16797	Choke Lever and Stem

NOTE Vacuum Pump By Pass Jet and Check Valve omitted and plugged

FATE ROOT HEATH

4 x5¼"—4-Cylinder (Buda KTU Eng)

F-2887 SF-2 Carburetor (Code No 92-6)

Std Part No	Special Part No Used on Above Model	
P-12823	P-11969	Choke Tube Holder
P 16753	P-16753	15/16 Venturi
P-17098	P-16797	Choke Lever and Stem

NOTE Vacuum Pump and By-Pass Jet omitted and plugged

FATE ROOT HEATH

3½"x5"—4-Cylinder (Cont N Eng)

F-2976 SF-1 Carburetor (Code No 92-2)

Std Part No	Special Parts Used on Above Model	
P 3278	P-3222	Elbow Union
P-5895	P-5820-K	Thro Lever on Right Side
P-16872	P-16872	¾" Venturi
P-17097	P-21095	Choke Lever and Stem

NOTE Pump By-Pass Jet and Check Valve omitted and plugged

HARNISHFEGER

4½"x6"—4-Cylinder

F-3132 SF-2 Carburetor (Code No 83-1)

Vacuum Pump, By-Pass and Check Valve Omitted and Plugged

(Otherwise Same as Standard)

ROCK ISLAND PLOW "G-2

4¼"x5¾' 4 Cyl

A-17642 SF-2 Carburetor (Code No 105-2)

Std Part No	Part Used on Above Model	
P-3278	P-3222	Elbow Union
P-5856-K	P-16497-K	Thro Lever on Left Side
P-14646	P-4522	Screws
P-16752	P-19152	Main Body
P-17098	P-9132	Air Horn Stem
	P-19183	Air Horn Lever on Left Side
None Shown	P-6087	Screw Plug
None Shown	P-200	Drain Cock
None Shown	P-5468	Screw Plug
None Shown	P-5983	Lock Plunger Holder
None Shown	P-1120	Lock Plunger
None Shown	P-1122	Lock Plunger Spring
None Shown	P-3523	Pin
None Shown	P-19184	Ring Adapter

NOTE By-Pass Jet, Vac Pump and Check Valve omitted and plugged

SCHRAMM (Z-80-B)

F-2658 SF-2 Carburetor (Code No. 33-4)

Std Part No	Special Parts Used on Above Model	
P-12802	P-15384	051 Metering Jet
P-12823	P-21104	Lock Plunger Holder
P-14646	P-15841	Lock Plunger Holder Attach Screws
P-16751	P-21105	Throttle Valve Body with 58-66 Idle Holes and Flange Tapped ⅜-16"
P-16753	P-16753	15/16 Venturi
P-16793	P-19397	Throttle Stem
P-17098	P-9132	Choke Stem
	P-21125	Choke Lever on Right Side
None Shown	P-1120	Lock Plunger
None Shown	P-1122	Lock Plunger Spring

NOTE Vacuum Pump By Pass Jet and Check Valve omitted and plugged

SCHRAMM MODEL "180 (ZA-80-A)

4½ x6 —4 Cylinder (Buda YTU Engine)

F-2674 SF-2 Carburetor (Code No. 33-2)

Std Part No	Special Parts Used on Above Model	
P-12802	P-15384	052 Metering Jet
P-12823	P-21104	Lock Plunger Holder
P-14646	P-15841	Lock Plunger Holder Attach Screws
P-16751	P-21105	Throttle Valve Body with 58-66 Idle Holes and Flange Tapped ⅜ 16
P-16753	P-16753	1 Venturi
P-16793	P-19397	Throttle Stem
P-17098	P-21125	Choke Lever on Right Side
	P-9132	Choke Stem
None Shown	P-1120	Lock Plunger
None Shown	P-1122	Lock Plunger Spring

NOTE Vacuum Pump By-Pass Jet and Check Valve omitted and plugged

SCHRAMM

5½"x6½"—4 Cyl Buda FR Eng

F-3600 SF-2 Carburetor (Code No 33-14)

Std Part No	Special Parts Used on Above Model Eng	
P-12802	P-15384	057' Metering Jet
P-14046	P-15841	Tube Holder Attach Screw
P-16751	P-21105	Throttle Valve Body with No 58-66 Idle Holes and Flange Tapped ⅜-16
P-16753	P-16753	1⅛ Venturi
P 16805	P-21104	Lock Plunger Holder
P-17098	P-9132	Choke Stem
	P-21125	Choke Lever on Left Side
None Shown	P-1120	Lock Plunger
None Shown	P-1122	Lock Plunger Spring

NOTE Vacuum Pump By-Pass Jet and Check Valve omitted and plugged

NOTE Throttle Lever and Stop Omitted

WICHITA FALL M CO

3¾"x4½"—6 Cylinder Waukesha 6XK Eng

F-2530 SF 2 Carburetor (Code No 112-4)

Std Part No	Special Parts Used on Above Model Eng	
P-16753	P-16753	1 3/16 Venturi
P-16786	P-16786	036 By-Pass Jet

WICHITA FALL M CO

4"x4¾"—6 Cylinder Wauk 6ML Eng

F-2942 SF-2 Carburetor (Code No 112-6)

Std Part No	Special Parts Used on Above Engine	
P-16753	P-16753	1⅛ Venturi
P 16786	P-16786	026 By-Pass Jet

SPECIFICATIONS OF STANDARD EQUIPPED INDUSTRIAL ENGINES
PARTS AND SETTINGS EXCEPTIONS MODELS SF-1-2 STANDARD CARBURETORS

BUDA

4"x5¼"—4-Cylinder K T U. Eng

F-2693 SΓ-2 Carburetor

Std Part No	Special Part No	Used on Above Model Engine
P-5444	P-5468	Plug
P-12802	P-15384	046 Main Metering Jet
P-12823	P-1120	Lock Plunger
	P-1122	Lock Plunger Spring
	P-19193	Lock Plunger Holder
P-14646	P-15841	Choke Valve Screws
P-16753	P-16753	15/16" Venturi
P-16786	P-16406	Plug
P-16990	P-6087	Plug
P-17098	P-6167	Choke Lever
	P-9132	Choke Lever Stem
None Shown	P-7098	Vac Suction Channel Plug

NOTE Vacuum Pump Assembly omitted

CONTINENTAL MOTORS (S4F-312)

4¼"x4½"—4 Cylinder (S4 Eng)

F-2737 SF-2 Carburetor (Code No. 34-14)

Std Part No	Special Parts	Used on Above Model Engine
P-5856	P-21102	Throttle Lever on Right Side
P-12802	P-15384	048' Metering Jet
P-12823	P-11969	Choke Tube Holder on Right Side
P-16753	P-16753	1" Venturi

NOTE Vacuum Pump, By-Pass Jet and Check Valve omitted and plugged

CONTINENTAL MOTOR (25-AF-200)

3⅜"x4"—6 Cylinder (25A Engine)

F-3475 SF-2 Carburetor (Code No 34-13)

Std Part No	Special Parts	Used on Above Model Engine
P-5856	P-20902-K	Throttle Lever on Left Side
P-12802	P-15384	050' Main Metering Jet
P-12823	P-11969	Choke Tube Holder
P-16753	P-16753	1 1/16" Venturi
P-16773	P-16773	No 28 Main Discharge Jet
P-16786	P-16786	036" By-Pass Jet
P-17098	P-20901	Choke Lever Stem

HERCULES MOTOR (40629-BS)

Γ-2651 SF-2 Carburetor (Code No. 27-4)

Std Part No	Special Parts	Used on Above Model Engine
P-5856	P-21108	Throttle Lever on Left Side
P-7041	P-14481	Throttle Stop
P-12802	P-15384	049' Metering Jet
P-12823	P-12677	Choke Tube Holder
P-16751	P-16751	Throttle Valve Body with 52-66 Idle Holes and Flange Tapped ⅜-16"
P-16753	P-16753	15/16" Venturi
P-16776	P-16776	No 56 High Speed Bleeder
P-17098	P-14072	Choke Lever on Left Side
	P-21106	Choke Stem

HERCULES (40641-BS)

F-3086 SF-2 Carburetor (Code No. 27-6)

Std Part No	Special Parts	Used on Above Model Engine
P-5856-K	P-21108	Thro Lever (3/16" on 1 cc and 17/64" on 1½ cc) on Left Side
P-7041	P-14481	Throttle Stop
P-12802	P-15384	052" Metering Jet
P-12823	P-12677	Choke Tube Holder on Left Side
P-16751	P-16751	Throttle Valve Body with 52-66 Idle
P-16753	P-16753	1" Venturi
P-16776	P-16776	No 56 High Speed Bleeder
P-17098	P-21106	Choke Stem
		Holes and Flange Tapped ⅜-16"
None Shown	P-14072	Choke Lever on Left Side

NOTE Vacuum Pump, By-Pass Jet and Check Valve omitted and plugged

HERCULES MOTOR (23626 BS)

4 x4¼"—4 Cylinder OOC Engine

F-3831 SF-1 Carburetor (Code No 27-23)

Std Part No	Special Parts	Used on Above Model
P-5845	P-6120	Throttle Lever Assy on right side
P-12823	P-11969	Choke Tube Holder Assy on right side
P-12870	P-12870	No 56 H S Bleeder
P-16786	P-16786	040' By Pass Jet
P-16872	P-16872	15/16' Venturi
P-16873	P-16873	No 40 Main Discharge Jet
P-17097	P-16876	Choke Lever and Stem Assy with Lever on Right Side

WAUKESHA MOTOR (51020)

F-2406 SF-1 Carburetor (Code No 26-4)

Std Part No	Special Parts	Used on Above Model Engine
P-12870	P-12870	No 56 High Speed Bleeder
P-16786	P-16786	040" By-Pass Jet
P-16872	P-16872	15/16" Venturi
P-16873	P-16873	No 40 Main Discharge Jet

WISCONSIN MOTORS (L-13)

5"x6"—6 Cylinder (M-3 Engine)

F-1672 SF-2 Carburetor (Code No. 25-7)

Std Part No	Special Parts	Used on Above Model Engine
P-5856	P-17806-K	Throttle Lever on Right Side
P-7041	P-17330	Throttle Stop
P-12802	P-15384	063" Metering Jet
P-12823	P-21099	Choke Tube Holder
P-15378	P-16802	Choke Valve
P-16751	P-16751	Thro Valve Body with 58-66 Idle Holes and Flange Drilled 13/32'
P-16752	P-21092	Main Body
P-16753	P-16753	1 1/16" Venturi
P-16793	P-19397	Throttle Stem
P-17098	P-18845	Choke Stem
	P-21096	Choke Lever on Right Side
None Shown	P-21100	Loose Lever on Left Side
None Shown	P-17287-K	Loose Lever Stop
None Shown	P-17744	Choke Spring
None Shown	P-16764	Choke Stop Pin

NOTE Vacuum Pump, By-Pass Jet and Check Valve omitted and plugged

WISCONSIN MOTOR (L-13-4)

F-2386 SF-2 Carburetor (Code No 25-8)

Std Part No	Special Parts	Used on Above Model Engine
P-7041	P-16795	Throttle Stop (Pinned to Stem)
P-10001	P-17806-K	Throttle Lever on Right Side
P-12002	P-15384	054' Metering Jet
P-12823	P-21099	Choke Tube Holder
P-16751	P-16751	Thro Valve Body with 58-66 Idle Holes and Flange Drilled 13/32"
P-16752	P-21092	Main Body
P-16753	P-16753	15/16" Venturi
P-16755	P-16802	Choke Valve
P-16793	P-19397	Throttle Stem
P-17098	P-18845	Choke Stem
	P-21096	Choke Lever on Right Side
None Shown	P-21100	Loose Lever on Left Side
None Shown	P-6123	Loose Lever Stop
None Shown	P-17744	Choke Spring
None Shown	P-16764	Choke Stop Pin

NOTE Vacuum Pump, By-Pass Jet and Check Valve omitted and plugged

WISCONSIN MOTOR (L-13-5)

F-3052 SF-2 Carburetor (Code No 25-9)

Std Part No	Special Parts	Used on Above Model Engine
P-7041	P-16795	Throttle Stop
P-10001	P-17806-K	Throttle Lever on Right Side
P-12802	P-15384	054' Metering Jet
P-12823	P-21099	Choke Tube Holder
P-15378	P-16802	Choke Valve
P-16752	P-21092	Main Body
P-16753	P-16753	1" Venturi
P-16793	P-19397	Throttle Stem
P-16842	P-16842	Thro Valve Body with 58-66 Idle Holes and Flange Drilled 13/32"
P-17098	P-18845	Choke Stem
	P-21096	Choke Lever on Right Side
None Shown	P-21100	Loose Lever on Left Side
None Shown	P-17287-K	Loose Lever Stop
None Shown	P-17744	Choke Return Spring
None Shown	P-16764	Choke Stop Pin

NOTE Vacuum Pump, By-Pass Jet and Check Valve omitted and plugged

WAUKESHA (52033)

3¼"x4⅛"—6 Cylinder Waukesha "6-M5" Eng

F-2001 SΓ-2 Carburetor (Code No. 26-6)

Std Part No	Special Parts	Used on Above Model Truck
P-12802	P-15384	056" Metering Jet
P-16753	P-16753	1" Venturi
P-16773	P-16773	No 28 Main Discharge Jet
P-16776	P-16776	No 56 H S Bleeder

NOTE Vacuum Pump, By-Pass and Check Valve Omitted and Plugged

WAUKESHA MODEL "V-VK" (52010)

4"x5"—5 Cylinders

F-3663 SF-2 Carrburetor (Code No 26-24)

Std Part No	Special Parts	Used on Above Model Eng
P-12802	P-15384	056' Metering Jet
P-16753	P-16753	1' Venturi
P-16773	P-16773	No 28 Main Discharge Jet
P-16776	P-16776	No 56 High Speed Bleeder

REPLACEMENT EQUIPMENT

PARTS AND SETTINGS EXCEPTIONS MODELS SF-1-2 STANDARD CARBURETOR

(Trucks and Industrial Equipment)

AUTOCAR 1916 - 1925 MODEL 21 F—1½ TON

4¾"x5¼"—2 Cylinder Engine

J-4730 SF-2 Carburetor (Code No 31-27)

Std Part No	Special Part Numbers Used on Above Model	
P 3278	P-755	Union Nipple Assy
P-5856	P-7887-K	Throttle Lever Assy on Right Side
P-12823	P-11969	Choke Tube Holder Assy on Right Side
P-15384	P-12802	Adj Metering Jet
P-16751	P-22705	Throttle Body No 56 70 Idle Holes, Flange Tapped $\frac{5}{16}$ -18
P-16753	P-16753	$\frac{15}{16}$" Venturi
P-17098	P-20901	Choke Lever and Stem

AUTOCAR 1920-26 MODEL "Y"

4¼"x5½"—4 Cylinder

J-4374 SF-2 Carburetor (Code No 31-5)

Std Part No	Special Parts Used on Above Model Truck	
P-3278	P-755	Union Nipple
P-5856	P-6330-K	Throttle Lever on Right Side
P-12802	P-15384	043" Metering Jet
P-12823	P-19193	Lock Plunger Holder
P-14646	P-15841	Lock Plunger Holder Attach Screws
P-16753	P-16753	$\frac{15}{16}$" Venturi
P-16786	P-16786	020" By-Pass Jet
P-17098	P-6167	Choke Lever on Right Side
	P-9132	Choke Stem
None Shown	P-1120	Lock Plunger
None Shown	P-1122	Lock Plunger Spring

AUTOCAR 1927 MODELS "CH" & "DK" TRUCK

4¼"x5½"—4 Cylinder Own Model "Y" Engine

J-4273 SF-2 Carburetor and Equipment (Code No. 31-13)

Std Part No	Special Part No Used on Above Model Trucks	
P-3278	P-755	Union Nipple
P-5856-K	P-6330	Throttle Lever (¼" on 1½" CC) on Right Side
P-12802	P-15384	043' Main Metering Jet
P-12823	P-19193	Lock Plunger Holder
P-16753	P-16753	$\frac{15}{16}$" Venturi
P-16786	P-16786	020" By-Pass Jet
P-17098	P-9132	Choke Stem
	P-19183	Choke Lever
None Shown	P-1120	Plunger
None Shown	P-1122	Plunger Spring

NOTE Throttle Valve Location Flush plus or minus 002

EQUIPMENT

P-4752 Flange Gasket

BROCKWAY

4 x5"—4 Cylinder Wisconsin SU Engine

J-4751 SF-2 Carburetor (Code No 49-4)

Std Part No	Special Parts Used on Above Model	
P-3278	P-3222	Elbow Union Assy
P-5856	P-7640-K	Throttle Lever Assy on Right Side
P-7041	P-14481	Throttle Stop
P-12823	P-11969	Choke Tube Holder Assy on Right Side
P-15384	P-15384	048 Metering Jet
P-16753	P-16753	1 Venturi
P-16793	P-18306	Throttle Stem
P-17098	P-16797	Choke Lever and Stem
None Shown	P-7829-K	Extra Clamp Lever on Right Side

DIAMOND T TRUCK 1925

MODELS "T-3", "O-5", "75", "76"

4"x5 —4 Cylinder Hercules Model "OX" Engine

J-4282 SF-1 Carburetor and Equipment

Std Part No	Special Part No Used on Above Model Trucks	
P-3278	P-3222	Union Elbow
P-5845-K	P 6628	Throttle Lever (Tapped ½-24 on 1" CC) on Left Side
P-12870	P-12870	No 65 High Speed Bleeder
P-16872	P-16872	⅞' Venturi
P-16873	P-16873	No 28 Main Discharge Jet
P-16786	P-16786	028" By-Pass Jet

EQUIPMENT

P-4751 Flange Gasket—P-18802 Air Horn Adapter furnished only by request—P-3316 Cap Screw—P-4603 Housing

DIAMOND "T" TRUCK MODEL "T-3 AND T-4"

4"x5 —4 Cylinder Herc OXA Eng

J-4615 SF-2 Carburetor (Code No 66-10)

Std Part No	Special Parts Used on Above Model Truck	
P-3278	P-3221	Elbow Union
P-16753	P-16753	$\frac{15}{16}$ Venturi

EQUIPMENT

P 4752 Flange Gasket

DIAMOND "T" TRUCK 1926-27

4½"x5¾ —4 Cylinder Herc L Eng

J-4632 SF-2 Carbureor (Code No 66-6)

Std Part No	Special Parts Used on Above Model Truck	
P-3278	P-3222	Elbow Union
P-5856	P-8123-K	Throtle Lever on Left Side
P-16753	P-16753	$1\frac{1}{16}$' Venturi
P 16776	P-16776	No 65 High Speed Bleeder

FEDERAL TRUCK MODELS A-6 F-7, F-8

3⅜ x4⅝"—6 Cylinder Continental 16-C Engine

J-4755 SF-2 Carburetor (Code No 82-14)

Std Part No	Special Parts Used on Above Model	
P-5856	P-13848-K	Throttle Lever Assy on Left Side
P-12802	P-15384	050 Metering Jet
P-12823	P-11969	Choke Tube Holder on Right Side
P-16753	P-16753	$1\frac{1}{16}$ Venturi
P-16793	P-19397	Throttle Stem
P-17098	P-16797	Choke Lever and Stem
None Shown	P-12428	Loose Lever
None Shown	P-17287	Loose Lever Stop

GENERAL MOTORS TRUCK 1928-29 MODEL "K-102-A"

4½"x6¼"—4 Cylinder Engine

J-4375 SF-2 Carburetor (Code No 23-14)

Std Part No	Special Part No Used on Above Model Trucks	
P-3278	P-3761	Union
P-5856-K	P-14246	Throttle Lever (17/64' on 1" CC) on Left Side
P-12802	P-15384	048" Metering Jet

GRAHAM TRUCK 1928-29

MODELS "OE, TE, GE, RE, JE, YE"

3⅜"x4½"—6 Cylinder Engine

J-4386 SF-2 Carburetor

Std Part No	Special Part No Used on Above Model Trucks	
P-3278	P-3222	Elbow Union Left Side
P-5856-K	P-13425	Throttle Lever (13/64" on 1¼" CC) on Left Side
P-12802	P-15384	058' Metering Jet
P-16751	P-16751	Throttle Valve Body with No 58-66 Idle Holes and Fl Drilled 1-11/32"
P-16753	P-16753	1⅛" Venturi
P-16786	P-16786	026" By-Pass Jet

HAHN-SELDEN TRUCK 1929-30 "17" & "17-C"

3⅜"x4"—6 Cylinder Continental Model "18" Engine

J-4285 SF-2 Carburetor and Equipment (Code No. 67-1)

Std Part No.	Special Part No. Used on Above Model Trucks	
P-5856-K	P-13847	Throttle Lever (17/64" on 1¼" CC) on Left Side
P-16753	P-16753	$1\frac{1}{16}$" Venturi
P-16786	P-16786	048" By-Pass Jet

NOTE Throttle Valve Location Flush plus or minus 002

EQUIPMENT

J-3920-F Fitting—P-4752 Gasket

INDIANA TRUCK 1925-27 MODELS 11, 11-A, 15

4"x5"—4 Cylinder Hercules OX Engine

J-4766 SF-2 Carburetor (Code No 30-33)

Std Part No	Special Parts Used on Above Model	
P-3278	P-3221	Union Elbow Assy
P-5856	P-21103	Throttle Lever Assy on Right Side
P-16753	P-16753	$\frac{15}{16}$ Venturi

INDIANA TRUCK MODEL 64

3⅜"x4⅞"—6 Cylinder Continental 16-C Engine

J-4761 SF-2 Carburetor (Code No 30-15)

Std Part No	Special Parts Uesd on Above Model	
P-3278	P-3222	Elbow Union Assy
P-5856	P-22938	Throttle Lever Assy on Right Side
P-12823	P-11969	Choke Tube Holder Assy on Right Side
P-16753	P-16753	1⅛ Venturi
P-16793	P-19397	Throttle Stem
P-17098	P-16797	Choke Lever and Stem
None Shown	P-8307	Extra Throttle Lever Assy on Left Side

EQUIPMENT

P-6884 Elbow Air Horn Extension ………………

REPLACEMENT EQUIPMENT
PARTS AND SETTINGS EXCEPTIONS MODELS SF-1-2 STANDARD CARBURETOR
(Trucks and Industrial Equipment)

I H. C. TRUCK 1927-28 MODELS "S-26, 36"
3¼"x4½"—Lycoming 4-Cyl. "SL" Engine
J-4288 SF-2 Carburetor and Equipment (Code No. 32-10)

Std. Part No.	Special Part No. Used on Above Model Trucks	
P-3278	P-10042	Union Elbow
P-5856-K	P-7887-K	Throttle Lever (17/64" on 1½" CC) on Left Side
P-16751	P-20472	Throttle Valve Body, No 58-66 Idle Holes, Flange Tapped ⅜-16"
P-12802	P-15384	048" Main Metering Jet

INTERNATIONAL HARVESTER 1929-31 AW-1, AW 2
3½' x4½"—4 Cylinder Waukesha XA Engine
J-4760 SF-1 Carburetor (Code No 32-16)

Std. Part No	Special Parts Used on Above Model	
P-12870	P-12870	No 56 High Speed Bleeder
P-15384	P-12802	Adj Metering Jet
P-16786	P-16786	028' By Pass Jet
P-16872	P-16872	$\frac{15}{16}$' Venturi
P-16873	P-16873	No 40 Main Discharge Jet
None Shown	P-9959	Throttle Lever Assy on Right Side

INTERNATIONAL HARVESTER CO 1933-36
MODELS A-4, A-5, A-6, C-50, C-55, C-60
3¾"x4½ —6 Cylinder Engine
J-4759 SF-2 Carburetor (Code No 32-13)

Std Part No	Special Parts Used on Above Model	
P-3278	P-3221	Elbow Union Assy
P-5856	P-5935-K	Throttle Lever Assy on Right Side
P-12802	P-15384	058' Metering Jet
P-16753	P-16753	1⅛' Venturi
P-16786	P-16786	026' By Pass Jet

MACK TRUCK 1916-1926 MODEL "AB"
4"x4¼"—4 Cylinder Engine
4"x5"—4 Cylinder Engine

J-4259 SF-2 Carburetor and Equipment (Code No 24-42)

Std Part No.	Special Part No Used on Above Model Trucks	
P-3278	P-10042	Gas Union
P-5856-K	P-6450-K	Throttle Lever ($\frac{3}{16}$" on 1" CC) on Left Side
P-12823	P-22006	Choke Tube Holder
P-15823	P-16802	Choke Valve
P-16752	P-21092	Main Body
P-17098	P-18845	Choke Stem
	P-21919	Choke Lever
None Shown	P-16763	Choke Return Spring
None Shown	P-16764	Pin

MACK BUS 1925 AND UP (With Starter) MODEL "AB"
4¼"x5"—4 Cylinder Engine
J-4524 SF-2 Carburetor and Equipment (Code No 24-29)

Std. Part No	Special Part No. Used on Above Model Busses	
P-3278	P-5028	Union Elbow
P-5856-K	P-14246	Throttle Lever (17/64" on 1" CC) on Right Side
P-12802	P-15384	051" Main Metering Jet
P-12823	P-11969	Choke Tube Holder
P-16751	P-16751	Throttle Valve Body, No 58-66 Idle Holes, Flange Drilled 13/32"
P-17098	P-16797	Choke Lever and Stem

EQUIPMENT

P-14752 Gasket—P-20890 Fitting

McCORMICK-DEERING TRACTOR MODEL "10-20"
4½"x5"—4 Cylinder Own "10-20" Engine
J-4405 SF-2 Carburetor

Std Part No	Special Part No. Used on Above Model Tractor	
P-3278	P-3222	Union Elbow
P-5856-K	P-7887-K	Throttle Lever (17/64" on 1½" CC) on Right Side
P-14646	P-15841	Lock Plunger Holder Attach Screw
P-15823	P-19193	Lock Plunger Holder
P-16753	P-16753	1" Venturi Tube
P-17098	P-9132	Choke Stem
None Shown	P-6167	Choke Lever on Right Side
None Shown	P-1120	Lock Plunger
None Shown	P-1122	Lock Plunger Spring

NOTE Vacuum Pump By-Pass Jet and Check Valve omitted and plugged

RELAY TRUCK 1930 MODEL "15-A"
3⅜"x4' —6 Cylinder Cont. 17E Eng
J-4612 SF-2 Carburetor (Code No. 178-1)

Std. Part No.	Special Parts Used on Above Model Truck	
P-5856	P-13848	Throttle Lever on Left Side
P-16793	P-19397	Throttle Lever Stem

REO 1926-27 MODELS "G" & "T-6" BUS AND HEAVY DUTY SPEED WAGON
$3\frac{3}{16}$"x5"—6 Cylinder Engine
$3\frac{5}{16}$'x5"—6 Cylinder Engine (With Intake Riser)
J-4274 SF-2 Carburetor and Equipment (Code No 12-20)

Std Part No	Special Part No. Used on Above Model Cars	
P-3278	P-2714	Street Elbow
	P-8711	Union Nipple
P-5856-K	P-13245	Throttle Lever (13/64" on 1¼" CC) on Right Side

NOTE Throttle Valve Location Flush plus or minus 002

EQUIPMENT

P 9562 Flange Gasket—P-5878 Stud—P-3187 Nut

REO 1929-30 2 AND 3-TON TRUCKS
MODEL GOLD CROWN "FC" AND "GA"
3⅜"x5"—6 Cylinder Engine
J-4249 SF-2 Carburetor and Equipment (Code No. 12-8)

Std. Part No	Special Part No Used on Above Model Trucks	
P-3278	P-3222	Union Elbow
P-5856-K	P-12115	Throttle Lever (13/64" on 1½" CC) on Right Side
P-12802	P-15384	048" Main Metering Jet
P-16753	P-16753	1⅛" Venturi

EQUIPMENT

P-4752 Gasket—P-4122-F Cross Flang Fitting—P-17441 Stud—P-7428 Nut

REPUBLIC TRUCK 1925-26 MODEL "19W"
4"x5¾"—4 Cylinder Wauk TV-Eng.
J-4574 SF-2 Carburetor (Code No 144-1)

Std Part No	Special Parts Used on Above Model Truck	
P-3278	P-3222	Elbow Union
P-5856	P-7237-K	Throttle Lever on Left Side
P-12802	P-15384	058 Metering Jet
P-12823	P-11969	Choke Tube Holder
P-16751	P-16751	Throttle Valve Body, No 58-66 Idle Holes and Flange Tapped $\frac{5}{16}$"-18
P-16753	P-16753	1⅛" Venturi
P-16786	P-16786	026" By-Pass Jet
P-17098	P-21101	Choke Lever and Stem

STEWART 1929 MODEL "16X AND 29X"
3¼"x4½ —6 Cylinder Lyc 4 SL Eng
J-4621 SF-2 Carbureor (Code No 28-31)

Std Part No	Special Parts Used on Above Model Truck	
P-3278	P-3221	Elbow Union
P-5856	P-7887-K	Throttle Lever on Left Side
P-12802	P-15384	050' Metering Jet
P-12823	P-11969	Tube Holder on Right Side
P-16776	P-16776	No 56 High Speed Bleeder
P-16786	P-16786	032" By-Pass Jet
P-16793	P-19397	Throttle Stem
P-17098	P-16797	Ch Lever and Stem
P-17282	P-17282	Fl Needle Valve and Seat
None Shown	P-10456	Studs (In Flange)
None Shown	P-12428	Loose Lever on Right Side
None Shown	P-17287	Loose Lever Stop

STEWART 1930 MODEL "16X-A"
3¼"x4½"—6 Cylinder Lyc 4SL Eng
J-4630 SF-2 Carburetor (Code No 28-28)

Std Part No	Special Parts Used on Above Model Truck	
P-5856	P-21953	Throttle Lever on Left Side
P-12782	P-12782	Fl Needle Valve and Seat
P-12802	P-15384	050' Metering Jet
P-12823	P-15178	Choke Tube Holder on Right Side
P-16776	P-16776	No 56 High Speed Bleeder
P-16786	P-16786	032" By-Pass Jet
P-17098	P-21957	Choke Lever and Stem
None Shown	P-10456	Stude (In Flange)
None Shown	P-21955	Loose Lever on Right Side
None Shown	P-17287	Loose Lever Stop

STEWART TRUCK 1929 MODEL "24X"
3¼"x4½"—6 Cylinders
J-4656 SF-2 Carburetor (Code No. 28-32)

Specification Same as Standard Excepting Throttle Lever Assembled on Right Side

REPLACEMENT EQUIPMENT

PARTS AND SETTINGS EXCEPTIONS MODELS SF-1-2 STANDARD CARBURETOR

(Trucks and Industrial Equipment)

STUDEBAKER MODEL "S-20" AND "S-30"

3¼"x4⅛"—6 Cylinder Engine

J-4381 SF-2 Carburetor (Code No 6-28)

Std Part No	Special Parts Used on Above Model Truck	
P-16776	P-16776	No 58 H S Bleeder
P-16793	P-13131	Throttle Stem
P-3278	P-3761	Union
P-5856	P-14246	Throttle Lever on Right Side
None Shown	P-14[illegible]99	Loose Lever on Left Side
None Shown	P-16487	Loose Lever Stop

WHITE—1929-32 MODELS 2A, 60, 61

J-4763 SF-2 Carburetor (Code No 29-18)

3½"x4½ —6 Cylinder Engine

Std Prt No	Special Parts Used on Above Model	
P-3278	P-3222	Union Elbow Assy
P-5856	P-7237-K	Throttle Lever Assy on Left Side
P-15384	P 15384	046 Metering Jet
P-16751	P-16751	Throttle Valve Body No 52 66 Idle Holes Flange Tapped ⅜ -16
P-16776	P-16776	No 56 High Speed Bleeder
P-16786	P-16786	032 By Pass Jet

WHITE TRUCK MODEL "57"

4"x5¾ —4 Cylinder (Model "GRC" Engine)

4½"x5¾ —4 Cylinder (Model "GRB-1 Engine)

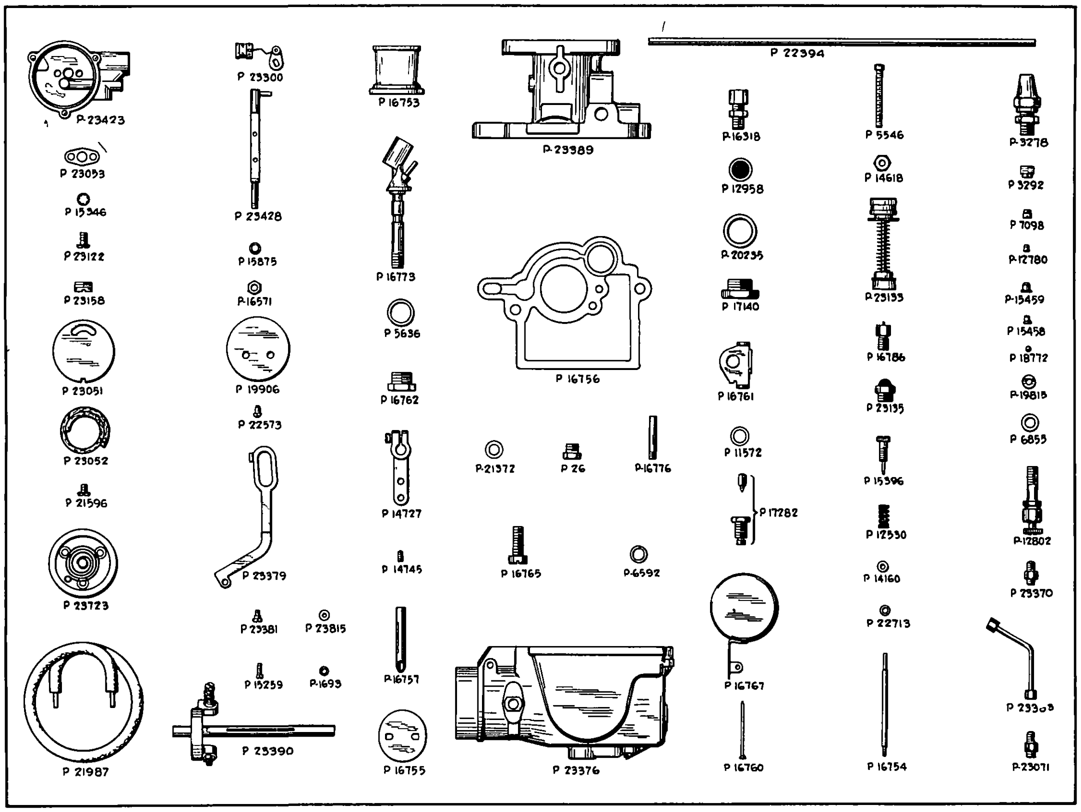
J 4287 SF-2 Carburetor and Equipment (Code No 29-10)

Std Part No	Special Part No Used on Above Model Trucks	
P-5856-K	P-7887	Throttle Lever (17/64" on 1½" CC) on Right Side
P-12823	P-11969	Choke Tube Holder
P-17098	P-16797	Choke Lever and Stem on Right Side

EQUIPMENT

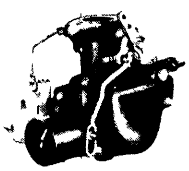
P-4752 Flange Gasket

NOTE Throttle Valve Location Flush plus or minus 002



SF-15 No. A-18581
1" CARB SAE

SF-25 No. A-18582
1¼" CARB SAE



Notes and References

Parts for SF 25 illustrated correspond ing SF 15 parts shown in listing below

Standard Specifications are listed on back of this page

‡Indicates sub assembly part

†These parts not illustrated

PARTS LISTS STROMBERG MODELS SF-15—SF-25 STANDARD CARBURETORS

SF-15 Part No	SF-25 Part No	
P-26	P-26	Plug—Gas Inlet
P-506	P-15259	Screw—Throttle Valve Attach
P-1693	P-1693	Lockwasher—Choke Valve Attach Screw
P-3278	P-3278	Assembly—Gas Union
	P-5636	Gasket—Main Discharge Jet Nut
P-6592	P-6592	Lockwasher—Main Body Attach Screw
P-6855	P-6855	Gasket—Adj Metering Jet
P-7098	P-7098	Plug—Vac Suction Channel
P-8898	P-5546	Screw—Vacuum Pump Adj
P-11572	P-11572	Gasket—Float Hanger & Needle Val Seat
P-12530	P-12530	Spring—Idle Needle Valve
P-12780	P-12780	Plug—Idle Discharge Channel
P-12802	P-12802	Assembly—Adj Metering Jet
P-12870	P-16776	High Speed Bleeder (**VAR**)
P-12958	P-12958	Assembly Strainer
P-14160	P-14160	Washer—Idle Tube Cock
P-14618	P-14618	Nut—Pump Adj Screw
P-14745	P-14745	Set Screw—Vent Tube
P-15346	P-15346	Lockwasher—Therm Housing Attach Sc
P-15396	P-15396	Valve—Idle Needle
P-15457	P-3292	Plug—Pump Channel
P-15458	P-15458	Plug—Channel
P-15459	P-15459	Plug—Idle Channel
P-15540	P-17140	Plug—Strainer
P-15875	P-15875	Lockwasher—Vacuum Piston Lever
P-16318	P-16318	Assembly—Compression Union
P-16571	P-16571	Nut—Vacuum Piston Lever
P-16760	P-16760	Pin—Float Fulcrum
P-16761	P-16761	Hanger—Float
	P-16762	Main Discharge Net Nut
P-16764	P-16764	Pin—Choke Valve Stop
P-16767	P-16767	Assembly—Float with Lever
P-16786	P-16786	Assembly—By Pass Jet (**VAR** ,
P-16870	P-16756	Gasket—Main Body
P-16871	P-16757	Vent Tube
P-16872	P-16753	Venturi Tube (**VAR**)
P-16873	P-16773	Jet—Main Discharge (**VAR**)
P-16874	P-16754	Tube—Idle (**VAR**)
P-16879	P-16765	Screw—Main Body Attach
P-17282	P-17282	Float Needle Valve and Seat
P-17916	P-16755	Valve—Throttle
P-18772	P-18772	Lead Ball
P-19815	P-19815	Washer—Fulcrum Screw Spring
P-20235	P-20235	Gasket—Strainer Plug
	P-21372	Gasket—Main Discharge Jet
P-21596	P-21596	Screw—Electric Unit Attach
P-21987	P-21987	Auto Choke Wire
P-22383	P-19906	Valve—Choke
P-22394	P-22394	Copper Tubing
P-22573	P-22573	Screw—Choke Valve Attach
P-22713	P-22713	Washer—Idle Tube
P-22986	P-22986	Plug—Expansion
P-23051	P-23051	Plate—Electric Unit Baffle
P-23052	P-23052	Insulator—Electric Unit
P-23053	P-23053	Gasket—Therm Housing Boss
P-23071	P-23071	Nipple—Vacuum Tube
P-23122	P-23122	Screw—Therm Housing Attach
P-23133	P-23133	Assembly—Vacuum Pump
P-23135	P-23135	Assembly—Pump Check Valve
P-23158	P-23158	Plug—Vacuum Piston Channel
P-23215-K	P-14727	Assembly—Throttle Lever
P-23300	P-23300	Assembly—Vacuum Piston and Link
P-23366	P-23376	Assembly—Main Body
P-23369	P-23379	Link—Choke Valve Kick
P-23370	P-23370	Nipple—Vacuum Tube
P-23371	P-23383	Assembly—Vacuum Tube
P-23372	P-23389	Assembly—Throttle Body (**VAR**)
P-23373	P-23390	Assembly—Throttle Stop and Stem
‡P-15301	‡P-15831	Spring—Idle Adj Screw
‡P-10594	‡P-18552	Screw—Idle Adj
P-23381	P-23381	Screw—Choke Valve Kick Link Fulcrum
*P-23386	*P-23386	Assembly—Thermostat & Electric Unit
†P-23387	†P-23387	Assembly—Thermostat & Electric Unit (12 Volt Unit)
P-23423	P-23423	Assembly—Thermostat Unit Housing
P-23427	P-23428	Assembly—Choke Stem and Pin
P-23723	P-23723	Assembly—Electric Unit
‡P-1693	‡P-1693	Lockwasher—Conn Post Nut
‡P-9284	‡P-9284	Nut—Connector Post
‡P-21030	‡P-21030	Nut—Binding Post
‡P-21032	‡P-21032	Washer—Steel
‡P-21033	‡P-21033	Washer—Insulation
‡P-23123	‡P-23123	Washer—Connector Post
P-23815	P-23815	Washer—Electric Unit Attach Screw

J-4269-G SF 15 Complete Gasket Set
J-4222-G SF 25 Complete Gasket Set

*NOTE On parts marked (**VAR**) size must be specified when ordering

STANDARD SPECIFICATIONS

A-18581 SF-15 Carburetor (Code 1-73)

Part No.	Part Name
P-12870	High Speed Bleeder—No 65
P-16786	Assembly By Pass Jet— 028"
P-16872	Venturi Tube—7/8"
P-16873	Main Discharge Jet—No 32
P-16874	Idle Tube—No 70
P-23372	Assembly Throttle Body—No 56 70 Idle Disch Holes

A-18582 SF-25 Carburetor (Code 1-74)

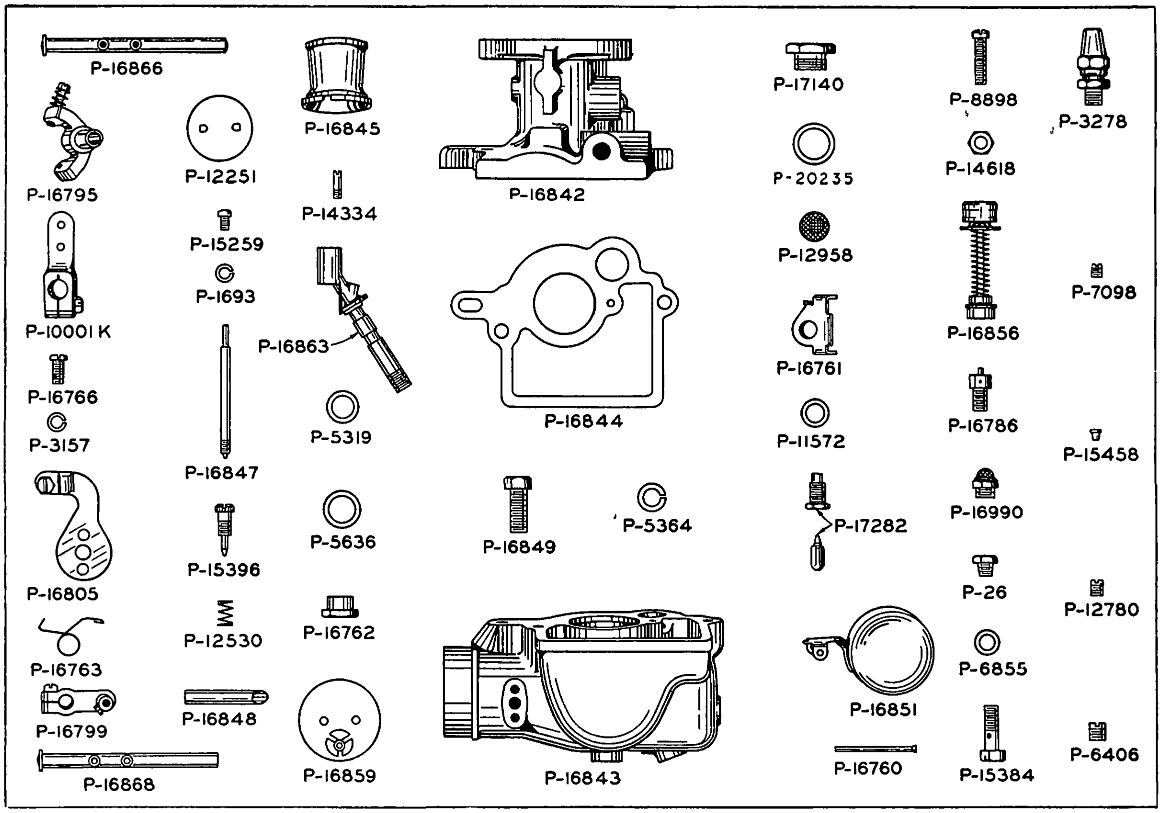
Part No	Part Name
P-16753	Venturi Tube—1-1/32"
P-16754	Idle Tube—No 68
P-16773	Main Discharge Jet—No 32
P-16776	High Speed Bleeder—No 60
P-16786	Assembly By-Pass Jet— 028"
P-23389	Assembly Throttle Body—No 58 66 Idle Disch Holes

STANDARD SETTINGS FOR SF-15-25 CARBURETOR

Throttle Valve Location Lower lip of throttle valve to be flush plus or minus, 004" with top of lower idle hole.

Pump Travel Maximum (full travel of pump)
Fuel Level $\frac{9}{16}$" below top face of float chamber at 2 lbs pressure
Thermostat Setting 12 notches rich

NOTE Hold carburetor with float chamber toward you when determining left and right side

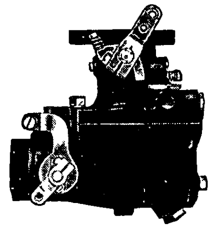


NOTE—P-15384 Changed to P-12802.

SF-3 N . A-16223
1½" CARB. SAE

SF-4 N . A-16224
1¾" CARB. SAE

SF-5 N . A-16225
2" CARB. SAE



Notes and References:

Parts SF-3 illustrated, corresponding SF-4 and SF-5 parts shown in listing below

Car models having these carburetors with parts exceptions therefor are shown on back of this page

‡Indicates Sub-assembly part

†These parts not illustrated

PARTS LISTS STROMBERG MODELS SF-3, SF-4 AND SF-5 STANDARD CARBURETORS

SF-3 Part No.	SF-4 Part No.	SF-5 Part No.	Name
P-26	P-8387	P-8387	Gas Inlet Pipe Plug
P-1693	P-1693	P-1693	Chk Valve Lockwashers
P-1693	P-1693	P-1693	Throt Valve Scr L'washer
P-3157	P-3157	P-3157	Attach Scr Lockwasher
†P-3292	P-3292	P-3292	Pipe Plug
P-3278	P-3223	P-3223	Gas Union
‡P-3279	‡P-3219	‡P-3219	Gas Union Nipple
‡P-3220	‡P-3218	‡P-3218	Gas Union Nut
P-5364	P-5364	P-5364	Attach Scr Lockwasher
P-5636	P-5636	P-5636	Discharge Jet Nut Gasket
P 6406	P-12780	P-12780	Idle Channel Plug
P-6855	P-6855	P-6855	Main Metering Jet Gasket
P-7098	P-7098	P-7098	Pump Channel Plug
P-10001K	P-10001K	P-10001K	Throttle Lever (Comp)
‡P-15817	‡P-15817	‡P-15817	Throt Lever Clamp Scr
P-11572	P-14364	P-14364	Float Hanger Gasket
P-11572	P-14364	P-14364	Needle Seat Gasket
*P-12251	P-16064	P-16065	Throttle Valve (VAR.)
P 12530	P-12530	P-12530	Idle Needle Valve Spring
P-12780	P-12780	P-12780	Idle Channel Plug
P-12802	P-12802	P-15748	Adj Metering Jet
‡P-12803	‡P-12803	‡P-12803	Adj Met Jet Nut
‡P-1503	‡P-1503	‡P-1503	Adj Met Jet Packing
P-12958	P-12958	P-12958	Gas Strainer
†P-14160	P-14160	P-14160	Idle Tube Cork Washer
*P-14334	P-16320	P-16320	H S Bleeder (VAR)
P-14618	P-14618	P-14618	Pump Adj Screw Nut
P-15259	P-15259	P-15259	Choke Valve Screws
P-15259	P-285	P-285	Throttle Valve Screw
P-15396	P-15396	P-15396	Idle Needle Valve
P-15458	P-15458	P-15458	Pump Chan Drive Plug
†P-16318	P-16318	P-16318	Compression Nipple (Sent Sepaarte)
P-16760	P-16760	P-16760	Float Fulcrum Pin
P-16761	P-17500	P-17500	Float Hanger
P-16762	P-16762	P-16762	Main Discharge Jet Nut
P-16763	P-16763	P-16763	Choke Lever Spring
P-16764	P-16764	P-16764	Choke Valve Stop Pin
P-16766	P-16766	P-16766	Chk Tb Attach Scr
*P-16786	P-16786	P-16786	Pmp By-Pass Jet (Comp) (VAR)
P-16799	P-16799	P-16799	Choke Lever with Screw
‡P-3199	‡P-3199	‡P-3199	Chk Lever Clamp Scr
‡P-13046	‡P-13046	‡P-13046	Chk Wire Clamp Scr
P-16805	P-16805	P-16805	Chk Tb Holder (Comp)
‡P-16807	‡P-16807	‡P-16807	Chk Tb Clamp Screw
*P-16842	P-17493	P-17535	Thro Valve Body (VAR)
‡P-14202	‡P-14997	‡P-14997	Thro Stem Bushing
P-16843	P-17494	P-17494	Main Body
‡P-16758	‡P-16758	‡P-16758	Choke Stem Bushing
P-16844	P-17496	P-17585	Main Body Gasket
*P-16845	P-17498	P-17739	Venturi Tube (VAR)
P-16847	P-17497	P-17497	Idle Tube
P-16848	P-17499	P-17499	Vent Tube
P-16849	P-16849	P-16849	Main Body Attach Scr
P-16850	P-16850	P-16850	Jet Locating Pin
P-16851	P-17501	P-17501	Float
P-16856	P-17506	P-17506	Pump Assembly (Comp)
P-16859	P-17515	P-17515	Choke Valve (Comp)
*P-16863	P-17250	P-17250	Main Discharge Jet (Complete) (VAR)
P-16866	P-17519	P-17741	Throttle Stem (Comp)
P-16868	P-17517	P-17517	Chk Lever Stem (Comp)
‡P-18552	‡P-18552	‡P-18552	Throttle Stop Set Screw
‡P-15831	‡P-15831	‡P-15831	Set Screw Spring
P-16990	P-16990	P-16990	Pump Check Valve
P-17140	P-17140	P-17140	Gas Strainer Plug
P-17282	P-18811	P-18812	Flt Ndl Valve and Seat
P-18449	P-16795	P-16795	Throttle Stop (Comp)
P-19911	P-19911	P-19911	Pump Adj Screw
P-20235	P-20235	P-20235	Strainer Plug Gasket
P-21372	P-21372	P-21372	Main Dischg Jet Gasket
†P-22394	P-22394	P-22394	Copper Tubing (Sent Separate)
†P-22713	P-22713	P-22713	Idle Tube Washer

J-4221-G	SF-3 Complete Gasket Set
J-4270-G	SF-4 Complete Gasket Set
J-4271-G	SF-5 Complete Gasket Set

*NOTE On parts marked (VAR) size must be specified when ordering

STANDARD SPECIFICATIONS

A-16223 SF-3 Carburetor (Code No 1-13)

P-12251	Throttle Valve (20°)
P-14334	No 65 H S Bleeder
P-16786	028" By Pass Jet
P-16842	Thro Valve Body with No 58-66 Idle Holes Flange Tapped ⅜-16
P-16845	1$\frac{1}{16}$" Venturi
P-16847	Idle Tube No 68 Feed and No 62 Top Holes
P-16863	No 28 Main Disch Jet and Small Venturi Tube

A-16224 SF-4 Carburetor (Code No 1-14)

P-16064	Throttle Valve (20°)
P-16320	No 65 H S Bleeder
P-16786	046 By Pass Jet
P-17250	No 28 Main Disch Jet and Small Venturi Tube
P-17493	Thro Valve Body with No 54-60 Idle Holes Flange Tapped $\frac{7}{16}$-14"
P 17497	Idle Tube No 66 Feed and No 52 Top Holes
P-17498	1$\frac{7}{16}$" Venturi

A-16225 SF-5 Carburetor (Code No 1 15)

P 16065	Throttle Valve (21°)
P-16320	No 65 H S Bleeder
P-16786	048 By Pass Jet
P-17250	No 28 Main Disch Jet and Small V
P-17535	Thro Valve Body with No 54-60 Idle Holes, Flange Tapped $\frac{7}{16}$-14"
P-17739	1½' Venturi
P 17497	Idle Tube, No 66 Feed and No 52 Top Holes

STANDARD SETTINGS FOR SF-3-4-5 CARBURETORS

Throttle Valve Location Lower idle hole to be exposed with valve closed
SF-4-5 040 plus or minus 004 or (No 64 drill go and No 57 drill no go gauge)
SF-3 Lower lip of throttle valve to be flush plus or minus 004 with top of lower idle hole
Pump Travel Maximum (Full travel of pump)
Fuel Level ⅞ below top face of Float Chamber at 2 pounds pressure
NOTE For settings refer to Float Level Chart on Page V
NOTE Hold carburetor with Float Chamber toward you when determining left and right side

SPECIFICATIONS OF STANDARD EQUIPPED TRUCKS
PARTS AND SETTINGS EXCEPTIONS MODELS SF-3-4-5 STANDARD CARBURETORS

AHRENS-FOX FIRE TRUCK

4⅝" x 4¾"—6 Cylinder Herc YXC-3 Eng
F-2014 SF-4 Carburetor (Code No 71-3)

Std Part No	Special Parts Used on Above Model Truck	
P-17498	P-17498	1⅞ Venturi

AMERICAN LA FRANCE (300 E-1641)

4" x 5"—12 Cylinder Own Model 312A Engine
F-3592 SF-4 Carburetor (Code No 99-4)

Std Part No	Special Parts Used on Above Model Truck	
P-10001	P-12122-K	Throttle Lever on Right Side
P-12802	P-15384	078 Metering Jet
P-16320	P-16320	No 50 H S Bleeder
P-16786	P-16786	028' By-Pass Jet
P-17493	P-17493	Throttle Valve Body with No 54-60 Idle Hole and Flange Drilled 15/32"

AUTOCAR 1932 SCH AND SCM ENGINES

4¼" & 4½"x4¾" 6 Cyl
A-16684 SF-4 Carburetor (Code No 31-3)

Std Part No	Special Part Used on Above Model Truck	
P-10001-K	P-13498-K	Throttle Lever
P-12802	P-15384	063' Meter Jet
P-16763	P-17468	Air Horn Lever Springs
P-16786	P-16786	050 By Pass Jet
P-16805	P-17920	Tube Holder
P-17498	P-17498	1$\frac{9}{32}$ Venturi

NOTE Throttle Valve Location Flush plus or minus 004

AUTOCAR TRUCK 1932 "RE" (6-RE-050)

3¾"x4¾" 6 Cyl
A-16683 SF-3 Carburetor (Code No 31-1)

Std Part No	Special Part Used on Above Model Truck	
P-3278	P-3222	Elbow Union
P-10001-K	P-16062-K	Throttle Lever on Left Side
P-12802	P-15384	055 Meter Jet
P-16786	P-16786	032' By Pass Jet
P-16847	P-17745	Idle Tube, No 70 Feed and No 64 Top Hole
P-18449	P-16795	Thro Stop
None Shown	P-9745	Taper Pin

AUTOCAR TRUCK 1932 "RE" AND "SD" (6-DO-50)

3¾" & 4"x4¾' 6 Cyl
A-17133 SF-3 Carburetor (Code No 31-2)

Std Part No	Special Part Used on Above Model Truck	
P-3278	P-3222	Elbow Union
P-10001-K	P-16062-K	Throttle Lever on Left Side
P-12802	P-15384	057 Meter Jet
P-16786	P-16786	032 By Pass Jet
P-16842	P-16842	Thro Valve Body with No 58-65 Idle Holes Flange Tapped ⅜-16'
None Shown	P-9745	Taper Pin

AUTOCAR CO (6 RG-450)

A 17783 SF-3 Carburetor (Code No 31-20 A)

Std Part No	Special Parts Used on Above Model Truck		
P-3278	P-3222	Elbow Union	
P-10001-K	P-21588	Throttle Lever on Left Side	
P-12802	P-15384	056 Metering Jet	(A)
P-16786	P 16786	032 By Pass Jet	
P-16866	P-21592	Throttle Stem	
P 18449	P-21590	Throttle Stop	
None Shown	P-20873	Throttle Stop Groove Pin	
None Shown	P 21194	Vac Suction Reducer	

AUTOCAR TRUCK (6-CF-450A)

F-2325 SF-5 Carburetor (Code No 31-4)

Std Part No	Special Parts Used on Above Model Truck	
P-10001	P-9705-K	Throttle Lever on Right Side
P-15748	P-15384	076 Metering Jet
P-16786	P-16786	052 By-Pass Jet
P-16805	P-21128	Choke Tube Holder on Left Side

NOTE Plug Vacuum Suction hole in barrel of carburetor Hole in Flange open

AUTO CAR

4⅜'x4¾"—6 Cylinder (Herc YXC Eng)
F-3214 SF-4 Carburetor (Code No 31-10)

Std Part No	Special Parts Used on Above Model Truck	
P-3223	P-755	Elbow Union
P-10001-K	P-13498-K	Throttle Lever
P-12802	P-15384	063 Metering Jet
P-16786	P-16786	050' By-Pass Jet
P-17498	P-17498	1-9/32 Venturi

AUTO CAR '1935' (6-CB 450)

4½' x5¼"—6 Cylinder
A-17694 SF-4 Carburetor (Code No 31-17)

Std Part No	Special Part No Used on Above Model	
P-3223	P-755	Gas Union
P-10001	P-14298-F	Throttle Lever
P 12802	P-15384	068 Main Metering Jet
P-16763	P-17468	Choke Return Spring
P-16786	P-16786	050" By-Pass Jet
P-16805	P-17920	Choke Tube Holder
P-17498	P-17498	No 1-⅜ Venturi

AVAILABLE TRUCK

3⅝ x4¾"—6 Cylinder (Wauk 6 90 Eng)
F-2166 SF 3 Carburetor (Code No 70 3)

Std Part No	Special Parts Used on Above Model Truck	
P-10001-K	P-16799	Throttle Lever on Right Side
P-16805	P-17880	Choke Tube Holder
P-16866	P-17801	Throttle Stem
None Shown	P-14084	Loose Lever on Left Side
None Shown	P-6123	Loose Lever Stop

SPECIFICATIONS OF STANDARD EQUIPPED TRUCKS
PARTS AND SETTINGS EXCEPTIONS MODELS SF-3-4-5 STANDARD CARBURETORS (Continued)

BROCKWAY MODEL "150-160-180" (107584)

4⅛ x4½"—6 Cylinder (Cont 32B Eng)
F 2525 SF 3 Carburetor (Code No 49-6)

Std Part No	Special Parts Used on Above Model Truck	
P-3278	P-3222	Union Elbow
P-10001-K	P-19300	Throttle Lever on Right Side
P-12802	P-15384	058 Main Metering Jet
P-14334	P-14334	No 62 High Speed Bleeder
P-16786	P-16786	042 By-Pass Jet
P-16842	P-16842	Throttle Valve Body No 58-66 Idle Holes Flange Drilled 13/32
P-16845	P-16845	1¼ Venturi

BROCKWAY 1933 MODEL '260' (107672)

4½' x5½"—6 Cylinder (22R-35B Cont Eng)
F-2553 SF 4 Carburetor (Code No 49-2)

Std Part No	Special Parts Used on Above Model Truck	
P-3223	P-1064	Reducing Nipple
	P-3222	Elbow Union
P-10001	P-19300-K	Throttle Lever on Right Side
P-12802	P-15384	070 Metering Jet
P 16786	P-16786	052' By-Pass Jet
P-17493	P-17493	Throttle Valve Body with 54-60 Idle Holes and Flange Drilled 15/32
P-17497	P 22054	Idle Tube, No 70 Feed and No 70 Top Holes

BROCKWAY TRUCK (107670)

MODELS "170", "175", "195", "220"
4⅛ and 4⅜"x4¾"—6 Cylinder (Cont 33B 34B Eng)
F-2587 SF-4 Carburetor (Code No. 49-8)

Std Part No	Special Parts Used on Above Model Truck	
P-3223	P-3222	Elbow Union
P-10001	P-19199	Throttle Lever on Right Side
P-12802	P-15384	058 Metering Jet
P-16064	P-16064	20° Throttle Valve
P-16786	P-16786	044 By-Pass Jet
P-17493	P-17493	Throttle Valve Body with 54-60 Idle Holes and Flange drilled 15/32
P-17497	P-22054	Idle Tube, No 70 Feed and No 70 Top Holes
P-17498	P-17498	1 5/16 Venturi
None Shown	P-1064	Union Reducer Nipple

NOTE Throttle Valve Location Flush plus or minus 004

NOTE P-7098 Plug in Econ Suction Hole above Throttle Valve open hole in Flange

BROCKWAY 1934 MOTOR TRUCK (108906)

Models "120"-"140"
4"x4⅛ —6-Cylinder (Cont 30 B Eng)
F-2984 SF-3 Carburetor (Code No 49-1)

Std Part No	Special Parts Used on Above Model Truck	
P-10001	P-19300-K	Throttle Lever on Right Side
P-12802	P-15384	058 Metering Jet
P-14334	P-14334	No 62 H S Bleeder
P-16786	P-16786	038 By-Pass Jet
P-16842	P-16842	Throttle Valve Body with No 58-66 Idle Holes and Flange drilled 13/32
P-16845	P-16845	1¼ Venturi
P-18449	P-16795	Throttle Stop

NOTE P-7098 Plug in Vacuum Suction Hole in Barrel of Carburetor Hole in Flange to be left open

CORBITT TRUCK 1935

4" x 4¾"—6 Cylinder Wauk 6ML Eng
F-3758 SF-3 Carburetor (Code No 64-4)

Std Part No	Special Parts Used on Above Model Truck	
P-16866	P-17801	Throttle Lever Stem
None Shown	P-13884	Loose Lever on Right Side
None Shown	P-17287	Loose Lever Stop

CORBITT TRUCK 1935

4¼'x4¼"—6 Cylinder Wauk 6 M Z Engine
F 3811 SF 3 Carburetor (Code No 64-5)

Std Part No	Special Parts Used on Above Model Truck	
P-16786	P-16786	032 By-Pass Jet
P-16845	P-16845	1¼ Venturi
P-16866	P-17801	Throttle Lever Stem
None Shown	P-13884	Loose Lever on Right Side
None Shown	P-17287	Loose Lever Stop

CORBITT TRUCK

4¼"x4¾'—6 Cylinder Cont 20 R Engine
F-3986 SF 4 Carburetor (Code No 64 11)

Std Part No	Special Parts Used on Above Model Truck	
P-16786	P-16786	050 By-Pass Jet
P-17497	P-17497	Special Idle Tube with No 68 Feed Hole and No 62 Top Hole
P-17498	P-17498	1 5/16 Venturi
P-17519	P-17884	Throttle Stem
None Shown	P-13884	Loose Lever on Right Side
None Shown	P-17287	Loose Lever on Stop

DART TRUCK

4¼"x4½"—6-Cylinder (Herc WXC-3 Engine)
F-2527 SF-3 Carburetor (Code No 57-4)

Std Part No	Special Parts Used on Above Model Truck	
P-12802	P-15384	054 Metering Jet

FOUR WHEEL DRIVE (3571)

4¾"x5½"—4-Cylinder (Wis "A" Eng)
F-2678 SF-3 Carburetor (Code No 93-1)

Sdt Part No	Special Parts Used on Above Model Truck	
P-3278	P-5028	Union
P-10001	P-7786-K	Throttle Lever on Left Side
P-12802	P-15384	054 Metering Jet
P-16763	P-17468	Choke Return Spring
P-16805	P-17879	Choke Tube Holder on Right Side
P-16842	P-16842	Throttle Valve Body with No 58-66 Idle Holes and Flange drilled 13/32 (Gas Inlet tapped ¼" Pipe)
P-18449	P-12788-K	Throttle Stop

GENERAL MOTORS TRUCK 1934 'T-78' (052906)

4⅛"x5 6 Cyl
A-17653 SF-3 Carburetor (Code No 23-8)

Std Part No	Special Part Used on Above Model Truck	
P-10001-K	P-19902	Throttle Lever on Left Side
P-12802	P-15384	064' Meter Jet
P-16786	P-16786	036 By Pass Jet
P-16842	P-16842	Thro Valve Body with No 58-66 Idle Holes and Flange Drilled 13/32"
P-16843	P-19903	Main Body
P-16845	P-16845	1 5/16' Venturi
P-16859	P-19898	Air Horn Valve
P-16868	P-19900	Air Horn Lever and Stem
None Shown	P-19901	Collar
None Shown	P-16161	Set Screw

GENERAL MOTORS TRUCK 1934 "T 75" (052905)

3¾"x5' 6 Cyl
A-17643 SF-3 Carburetor (Code No 23-7)

Std Part No	Special Part Used on Above Model Truck	
P-10001-K	P-19902	Throttle Lever on Left Side
P-12802	P-15384	062 Meter Jet
P-16786	P-16786	032 By Pass Jet
P-16799 P-16868	P-19900	Air Horn Lever and Stem
P-16842	P-20215	Thro Valve Body with No 58-66 Idle Holes and Flange Drilled 13/32"
P-16843	P-19903	Main Body
P-16845	P-16845	1 5/16' Venturi
P-16859	P-19898	Air Horn Valve
None Shown	P-19901	Collar
None Shown	P-16161	Set Screw

GENERAL MOTORS 1935 (053714)

4⅞"x5½"—6 Cylinder Own 616 Engine
A-17645 SF-5 Carburetor (Code No 23-34)

Std Part No	Special Parts Used on Above Model Truck	
P-10001-K	P-21669	Throttle Lever on Left Side
P-15748	P-15384	064 Metering Jet
P-16320	P-16320	No 60 High Speed Bleeder
P-16786	P-16786	030 By-Pass Jet
P-16795	P-18449	Throttle Stop
P-17517	P-21671	Choke Lever and Stem (Lever on Left Side)
P-17739	P-17739	1⅜ Venturi Tube
None Shown	P-19901	Choke Stem Collar
None Shown	P-16161	Choke Stem Collar Set Screw

GENERAL MOTORS 1935 MODEL '722' COACH (053431)

4⅜" x 5"—6 Cylinder Own "450' Engine
A-17664 SF-4 Carburetor (Code No 23-12)

Std Part No	Special Parts Used on Above Model Coach	
P-10001-K	P-19300	Throttle Lever on Left Side
P-12802	P-15384	067 Metering Jet
P-16320	P-16320	No 60 High Speed Bleeder
P-16786	P-16786	056 By-Pass Jet
P-16799	P-21359	Choke Lever on Left Side

NOTE Jump Travel Minimum (Pump Adj Screw P-19911 Screw Down to Nut)

SPECIFICATIONS OF STANDARD EQUIPPED TRUCKS
PARTS AND SETTINGS EXCEPTIONS MODELS SF-3-4-5 STANDARD CARBURETORS (Continued)

GENERAL MOTORS TRUCK 1934 (053082)
4⅞"x5½"—6-Cylinder (616)
A-17575 SF-5 Carburetor (Code No 23-10)

Std. Part No.	Special Parts	Used on Above Model Truck
P-10001-K	P-20227	Throttle Lever on Left Side
P-12802	P-15384	Metering Jet 072"
P-16786	P-16786	By-Pass Jet 074"
P-16795	P-18449	Throttle Stop
P-16799 P-17512	P-20226	Air Horn Lever and Stem
P-17535	P-17535	Thro Valve Body, 54-60 Idle Hole, Flange Drilled $\frac{15}{32}$"
None Shown	P-19901	Collar
None Shown	P-16161	Set Screw

GENERAL MOTORS TRUCK "T-78" 1934 (053027)
4⅜"x5"—6-Cylinder (450)
No. A-17624 SF-4 Carburetor (Code No 23-9)

Sdt Part No.	Special Parts	Used on Above Model Truck
P-10001-K	P-20244	Throttle Lever on Left Side
P-12802	P-15384	Metering Jet 070"
P-16786	P-16786	By-Pass Jet 050"
P-16795	P-18449	Throttle Stop
P-16799 P-16805 P-17517	P-20226	Air Horn Lever and Stem
P-17493	P-17493	Throttle Valve Body with No 54-60 Idle Holes, Flange drilled 15/32"
None Shown	P-19901	Collar
None Shown	P-16161	Set Screw

GENERAL MOTORS TRUCK 1934 MODEL "1450" (053299)
3⅜"x5"—6-Cylinder Engine
A-17644 SF-4 Carburetor (Code No. 23-11)

Sdt. Part No	Special Parts	Used on Above Model Truck
P-10001	P-20244	Throttle Lever on Right Side
P-12802	P-15384	067" Main Metering Jet
P-16320	P-16320	No 60 High Speed Bleeder
P-16786	P-16786	056" By-Pass Jet
P-16799 P-16805 P-17517	P-20226	Choke Lever and Stem
P-17493	P-17493	Throttle Valve Body with No 54-60 Idle Holes, Flange drilled 15/32'
P-17498	P-17498	1$\frac{7}{16}$" Venturi
None Shown	P-19901	Choke Stem Collar
None Shown	P-16161	Choke Stem Collar Set Screw

NOTE. Pump Travel, minimum (Pump Adj Screw (P-19911) screw down to nut)

INTERNATIONAL MOTOR 1933 MODEL "BM" (2-CE-32)
4"x5½"—6 Cylinder
F-2492 SF-4 Carburetor (Code No 24-12-A)

Std Part No	Special Parts	Used on Above Model Truck
P-3223	P-18929	Elbow Union
P-10001-K	P-20216-K	Throttle Lever on Right Side
P-12802	P-15384	060' Metering Jet
P-16320	P-16320	No 70 High Speed Bleeder
P-16763	P-17468	Choke Lever Return Spring
P-16786	P-16786	034' By-Pass Jet
P-16799	P-18857	Choke Lever on Right Side
P-16805	P-19979	Choke Tube Holder
P-17497	P-22702	Idle Tube No 72 Feed Hole and 5/64 Top Hole—(A)
P-17498	P-17498	1$\frac{5}{16}$" Venturi

INTERNATIONAL MOTOR CO. (2-BX-33)
1932 MODEL "BC BUS," "CI BUS," "BX TRACTOR"
Type 70 Fire Apparatus
4¼"x5½' 6 Cyl.
A-15314 SF-4 Carburetor (Code No 24-10-B)

Std Part No.	Special Part	Used on Above Model Truck
P-3223	P-18929	Union
P-10001-K	P-13498-K	Throttle Lever on Right Side
P-12802	P-15384	066" Meter Jet
P-16320	P-16320	No 60 H S Bleeder
P-16763	P-17468	Spring
P-16786	P-16786	044" By Pass Jet
P-16799	P-18857	Air Horn Lever
P-16805	P-19979	Tube Holder
P-17493	P-18234	Thro Valve Body with No 54-60 Idle Holes Flange Tapped $\frac{7}{16}$"-14
P-17494	P-18894	Main Body
P-17497	P-22702	Idle Tube with No 72 Feed Hole and 5/64' Top Hole
P-17498	P-17498	1⅜" Venturi
None Shown	P-9745	Pin

NOTE Fuel Level 31/32'

INTERNATIONAL MOTOR 1934 MODELS "AC-6" AND "AK-6"
(2-BQ-312)

A-17574 SF-4 Carburetor (Code No 24-8-B)

Std Part No	Special Part	Used on Above Model Truck
P-10001-K	P-13498-K	Thro Lever
P-12802	P-15384	075" Meter Jet
P-16786	P-16786	048" By Pass Jet
P-16795	P-18449	Thro Stop
P-16799	P-18857	Air Horn Lever
P-16805	P-19977	Tube Holder . . . .
P-17493	P-20233	Thro Valve Body with No 54-60 Idle Holes, Flange Tapped $\frac{7}{16}$"-14 ..
P-17494	P-18894	Main Body
P-17497	P-22702	Idle Tube with No 72 Feed Hole and 5/64 Top Hole (B)
P-17498	P-17498	1½" Venturi
None Shown	P-9745	Taper Pin

NOTE Fuel Level 31/32'

INTERNATIONAL MOTORS 1934 MODEL "BQ" (2-BQ-313)
A-17584 SF-4 Carburetor (Code No 24-9-B)

Std Part No.	Special Part	Used on Above Model Truck
P-3223	P-15276	Union
P-10001-K	P-10216-K	Throttle Lever
P-12802	P-15384	079" Meter Jet
P-16763	P-17468	Spring
P-16786	P-16786	048' By Pass Jet
P-16799	P-18857	Air Horn Lever
P-16805	P-19979	Tube Holder
P-17493	P-20233	Thro Valve Body with No 54-60 Idle Holes, Flange Tapped $\frac{7}{16}$"-14
P-17494	P-18894	Main Body
P-17497	P-22702	Idle Tube with No 72 Feed Hole and 5/64 Top Hole (B)
P-17498	P-17498	1½" Venturi
None Shown	P-9745	Taper Pin

NOTE Fuel Level 31/32

INTERNATIONAL MOTORS 1933 MODEL 'CL" AND "CX" BUSSES
(2 CF-35)
4¼ x5½ 6 Cylinder—Own CF Engine
A-17544 SF-4 Carburetor (Code No 24-13-B)

Std Part No.	Special Part	Used on Above Model Truck
P-3223	P-18930	Elbow Union
P-10001-K	P-13498-K	Thro Lever
P-12802	P-15384	062' Meter Jet
P-16064	P-16064	21° Throttle Valve
P-16320	P-16320	No 60 H S Bleeder
P-16763	P-17468	Spring
P-16786	P-16786	044" By Pass Jet
P-16795	P-18449	Thro Stop
P-16799	P-18857	Air Horn Lever
P-16805	P-19979	Tube Holder
P-17493	P-18234	Thro Valve Body with No 54-60 Idle Holes Flange Tapped $\frac{7}{16}$"-14
P-17494	P-18894	Main Body
P-17497	P-22702	Idle Tube with No 72 Feed Hole and 5/64' Top Hole (B)
P-17498	P-17498	1⅜" Venturi
None Shown	P-9745	Taper Pin

NOTE Fuel Level 31/32

INTERNATIONAL MOTOR 1933 MODEL "CF" "BX" (2-CF-37)
4¼"x5½" 6 Cyl.
A-17564 SF 4 Carburetor (Code No 24-14-B)

Std. Part No.	Special Parts	Used on Above Model Truck
P-3223	P-18929	Union
P-10001-K	P-20216-K	Throttle Lever on Right Side
P-12802	P-15384	066" Meter Jet
P-16320	P-16320	No 60 H S Bleeder
P-16763	P-17468	Spring
P-16786	P-16786	044" By Pass Jet
P-16799	P-18857	Air Horn Lever
P-16805	P-19979	Tube Holder
P-17493	P-18234	Thro Valve Body with No 54-60 Idle Holes, Flange Tapped $\frac{7}{16}$-24
P-17494	P-18894	Main Body
P-17497	P-22702	Idle Tube with No 72 Feed Hole and 5/64" Top Hole (B)
P-17498	P-17498	1⅜" Venturi
None Shown	P-9745	Taper Pin

NOTE Fuel Level 31/32"

INTERNATIONAL MOTOR 1933 "CE" "BM" (2-CE-31)
4" x 5½" 6 Cyl
A-17554 SF-4 Carburetor (Code No 24-11-B)

Std. Part No.	Special Parts	Used on Above Model Truck
P-10001-K	P-13498-K	Throttle Lever on Right Side
P-12802	P-15384	060" Meter Jet
P-16320	P-16320	No 70 H S Bleeder
P-16786	P-16786	034" By Pass Jet
P-16799	P-18857	Air Horn Lever
P-16805	P-19978	Tube Holder
P-17140	P-21394	Drain Plug
P-17493	P-18234	Thro Valve Body with No 54-60 Idle Holes
P-17494	P-18894	Main Body
P-17497	P-22702	Idle Tube with No 72 Feed Hole and 5/64" Top Hole (B)
P-17498	P-17498	1$\frac{5}{16}$" Venturi
None Shown	P-9745	Taper Pin

NOTE Fuel Level 31/32"

SPECIFICATIONS OF STANDARD EQUIPPED TRUCKS
PARTS AND SETTINGS EXCEPTIONS MODELS SF-3-4-5 STANDARD CARBURETORS (Continued)

INTERNATIONAL MOTOR 1932-33 "AB" TRUCK (2-AB-3141)

4¼"x5"—4 Cylinder

A-17333 SF-3 Carburetor Code No 24-1-A)

Std. Part No.	Special Parts Used on Above Model Truck	
P-3278	P-18435	Union
P-10001-K	P-13498-K	Throttle Lever on Right Side
P-12802	P-15384	049" Meter Jet
P-16786	P-16786	020" By Pass Jet
P-16805	P-19977	Tube Holder
P-16842	P-18436	Thro Valve Body with No 58-66 Idle Holes, Flange Tapped ⅜-16"
P-16845	P-16845	1⅛" Venturi
P-16847	P-22711	Idle Tube with No 72 Feed Hole and 5/64 Top Hole (A)
P-18449	P-16795	Thro Stop
None Shown	P-9745	Taper Pin

NOTE Fuel Level 31/32'

INTERNATIONAL MOTOR 1933 "AC" TRUCK (2 AC-3128)

A-17573 SF-3 Carburetor (Code No 24-3-A)

Std. Part No	Special Parts Used on Above Model Truck	
P-3278	P-15278	Elbow Union
P-10001-K	P-13498-K	Thro Lever
P-12802	P-15384	054" Metering Jet
P-16805	P-19977	Tube Holder
P-16842	P-16842	Thro Valve Body with No 58-66 Idle Holes and Flange Drilled 13/32"
P-16847	P-22711	Idle Tube with No 72 Feed Hole and 5/64 Top Hole (A)

INTERNATIONAL MOTOR 1931-32 "BG" BUS AND TRUCK (2-BG-316)

3⅞"x5" 6 Cyl.

A-15313 SF-3 Carburetor (Code No 24-4-A)

Std Part No	Special Parts Used on Above Model Truck	
P-3278	P-15278	Elbow Union
P-10001-K	P-20216-K	Throttle Lever on Right Side
P-12802	P-15384	062" Meter Jet
P-18449	P-16795	Thro Stop
P 16805	P-19977	Choke Tube Holder
P-16842	P-19996	Thro Valve Body with No 58-66 Idle Holes, Flange Tapped ⅜-16"
P-16845	P-16845	1 5/16" Venturi
P-16847	P-22711	Idle Tube with No 72 Feed Hole and 5/64 Top Hole (A)
P-17140	P-19995	Strainer Plug
None Shown	P-9745	Taper Pin (Thro Stop)

NOTE Pump Capacity 25 CC per 10 strokes
NOTE Fuel Level 31/32

INTERNATIONAL MOTORS 1932-33 "AC" TRUCK (2-AC-3132)

A-17353 SF 3 Carburetor (Code No 24-2-A)

Std Part No.	Special Parts Used on Above Model Truck	
P-3278	P-15277	Elbow Union
P-10001-K	P-9705-K	Throttle Lever on Left Side
P-12802	P-15384	056' Meter Jet
P-16763	P-17468	Spring
P-16799	P-18786	Air Horn Lever
P-16805	P-19978	Tube Holder
P-16842	P-18447	Thro Valve Body with No 58-66 Idle Holes, Flange Tapped ⅜-16"
P-16847	P-22711	Idle Tube with No 72 Feed Hole and 5/64 Top Hole (A)
P-16856	P-18805	Vac Pump Assembly
None Shown	P-9745	Taper Pin

NOTE Pump Capacity 25 CC per 10 strokes
NOTE Fuel Level 31/32'

INTERNATIONAL MOTORS 1936 MODEL "BF" (2-CU-31)

3⅞" x 5"—6 Cylinder Own "CU" Engine

A-17793 SF-3 Carburetor (Code No 24-67-A)

Std Part No	Special Parts Used on Above Model Truck	
P-3278	P-15278	Elbow Union
P-10001-K	P-20216-K	Throttle Lever on Right Side
P-12802	P-15384	065' Metering Jet
P-16805	P-19977	Choke Tube Holder on Left Side
P-16842	P-19996	Throttle Valve Body with No 58-66 Idle Holes and Flange Tapped ⅜-16
P-16845	P-16845	1 5/16" Venturi Tube
P-16847	P-22711	Idle Tube with No 72 Feed Hole and 5/64 Top Hole (A)
P-17140	P-19995	Strainer Plug
P-18449	P-16795	Throttle Stop
None Shown	P-9745	Throttle Stop Pin

NOTE Fuel Level 31/32'

INTERNATIONAL MOTOR 1935-36 MODEL "CW-BUS" (2 BG-221-A)

3⅞" x 5"—6 Cylinder Own BG Engine

A-17803 SF-3 Carburetor (Code No 24-100)

Std Part No	Special Parts Used on Above Model Bus	
P-3278	P-15278	Elbow Union
P-10001-K	P-13498-K	Throttle Lever on Left Side
P-12802	P-15384	060 Metering Jet
P-16842	P-17743	Throttle Valve Body with 58-66 Idle Holes and Flange Tapped ⅜-16
P-16843	P-19903	Main Body
P-16845	P-16845	1 5/16" Venturi
P-16847	P-22711	Idle Tube with No 72 Feed Hole and 5/64" Top Hole
Std. Part No.	**Special Parts Used on Above Model Truck**	
P-16859	P-21758	Choke Valve
P-16868	P-21756	Choke Stem
None Shown	P-9745	Throttle Stop Pin
None Shown	P-3881	Choke Stem End Pin
None Shown	P-19901	Choke Stem Collar
None Shown	P-16161	Choke Stem Collar Set Screw

NOTE Choke Lever and Tube Holder Omitted
NOTE This Carburetor Has Offset Choke
NOTE Fuel Level 31/32

INTERNATIONAL MOTORS 1936 MODEL "BF" (2-CU-31A)

3⅞" x 5"—6 Cylinders Own "CU" Engine

A-17813 SF-3 Carburetor (Code No 24-69-A)

Std Part No	Special Parts Used on Above Model Truck	
P-3278	P-15278	Elbow Union
P-10001-K	P-20216-K	Throttle Lever on Right Side
P-12802	P-15384	065 Metering Jet
P-16805	P-19977	Choke Tube Holder on Left Side
P-16842	P-19996	Throttle Valve Body with No 58-66 Idle Holes and Flange Tapped ⅜-16
P-16843	P-21673	Main Body
P-16845	P-16845	1 5/16" Venturi Tube
P-16847	P-22711	Idle Tube with No 72 Feed Hole and 5/64 Top Hole (A)
P-16859	P-21758	Choke Valve
P-16868	P-21756	Choke Stem
P-17140	P-19995	Strainer Plug
P-18449	P-16795	Throttle Stop
None Shown	P-9745	Throttle Stop Pin
None Shown	P-3881	Choke Stem End Pin
None Shown	P-19901	Choke Stem Collar
None Shown	P-16161	Choke Stem Collar Set Screw

NOTE This Carburetor Has Offset Choke
NOTE Fuel Level 31/32

INTERNATIONAL MOTORS 1931-32 MODEL "BG" (2-BG-316B)

3⅞" x 5"—6 Cylinder

A-17823 SF-3 Carburetor (Code No 24 70-A)

Std Part No	Special Parts Used on Above Model Truck and Bus	
P-3278	P-15278	Elbow Union
P-10001-K	P-20216 K	Throttle Lever on Right Side
P-12802	P-15384	062 Metering Jet
P-16805	P-19977	Choke Tube Holder on Left Side
P-16842	P-19996	Throttle Valve Body with No 58-66 Idle Holes and Flange Tapped ⅜-16
P-16843	P-21673	Main Body
P-16845	P-16845	1 5/16 Venturi Tube
P-16847	P-22711	Idle Tube with No 72 Feed Hole and 5/64 Top Hole (A)
P-16859	P-21758	Choke Valve
P-16868	P-21756	Choke Stem
P-17140	P-19995	Strainer Plug
P-18449	P-16795	Throttle Stop
None Shown	P-9745	Throttle Stop Pin
None Shown	P-3881	Choke Stem End Pin
None Shown	P-19901	Choke Stem Collar
None Shown	P-16161	Choke Stem Collar Set Screw

NOTE This carburetor has Offset Choke
NOTE Fuel Level 31/32"

INTERNATIONAL MOTORS 1935-36 MODEL "CW-BUS" (2-CU-21-A)

3⅞" x 5"—6 Cylinder Own BG Engine

A-17833 SF-3 Carburetor (Code No 24-66-A)

Std Part No	Special Parts Used on Above Model Bus	
P-3278	P-15278	Elbow Union
P-10001-K	P-13498-K	Throttle Lever on Left Side
P-12802	P-15384	065" Metering Jet
P-16842	P-19996	Throttle Valve Body No 58 66 Idle Holes and Flange Tapped ⅜ -16
P-16843	P-19903	Main Body
P-16845	P-16845	1 5/16" Venturi Tube
P-16847	P-22711	Idle Tube with No 72 Feed Hole and 5/64 Top Hole (A)
P-16859	P-21758	Choke Valve
P-16868	P-21756	Choke Stem
P-17140	P-19995	Strainer Plug
None Shown	P-9745	Throttle Stop Pin
None Shown	P-3881	Choke Stem End Pin
None Shown	P-19901	Choke Stem Collar
None Shown	P-16161	Choke Stem Collar Set Screw

NOTE Choke Lever and Tube Holder Omitted
NOTE This Carburetor Has Offset Choke

INTERNATIONAL MOTORS 1932 MODEL "B K" "BJ" TRUCK

4½"x5½"—6-Cylinder

F-1620 SF-4 Carburetor (Code No 24-36)

Sdt Part No	Special Parts Used on Above Model Truck	
P-10001-K	P-12122-K	Throttle Lever on Right Side
P-12802	P-15384	074' Metering Jet
P-16064	P-16064	Throttle Valve (20°)
P-16763	P-17468	Choke Lever Return Spring
P-16805	P-19979	Choke Tube Holder
P-17494	P-18894	Main Body
P-17497	P-22702	Idle Tube with No 72 Feed Hole and 5/64' Top Hole (A)

NOTE Throttle Valve Location Flush, plus or minus 004

SPECIFICATIONS OF STANDARD EQUIPPED TRUCKS
PARTS AND SETTINGS EXCEPTIONS MODELS SF-3-4-5 STANDARD CARBURETORS (Continued)

INTERNATIONAL MOTOR MODEL "CQ" BUS (2-CT-31)
4½"x5½"—6 Cylinder
A-17684 SF-4 Carburetor (Code No 24-19-B)

Std Part No	Special Part No	Used on Above Model
P-3223	P-18930	Gas Union
P-10001	P-20216 K	Throttle Lever on Left Side
P-12802	P-15384	068 Main Metering Jet
P-16320	P-16320	No 60 H S Bleeder
P-16786	P-16786	048' By-Pass Jet
P-16795	P-18449	Throttle Stop
P-17493	P-18234	Thro Valve Body, No 54-60 Idle Holes
P-17494	P-18894	Main Body
P-17497	P-22702	Idle Tube with No 72 Feed Hole and 5/64 Top Hole (B)
P-17515	P-21576	Choke Valve
None Shown	P-9745	Taper Pin

NOTE Choke Lever Tube Holder and Return Spring Omitted
NOTE Fuel Level 31/32

INTERNATIONAL MOTORS MODEL "AB"
4¼"x5"—4 Cylinder Engine
F-2106 SF-3 Carburetor (Code No 24-40)

Sdt Part No	Special Parts	Used on Above Model Truck
P-3278	P-15277	Elbow Union
P-10001	P-9705-K	Throttle Lever on Left Side
P-12802	P-15384	054 Metering Jet
P-16786	P-16786	028' By-Pass Jet
P-16805	P-19977	Choke Tube Holder on Left Side
P-16845	P-16845	1⅛" Venturi
P 16847	P-22711	Idle Tube with No 72 Feed Hole and 5/64 Top Hole

INTERNATIONAL MOTORS MODEL "B C" TRUCK
4'x5½"—6-Cylinder
F-2382 SF-4 Carburetor (Code No 24-30-A)

Sdt Part No	Special Parts	Used on Above Model Truck
P-10001	P-13498-K	Throttle Lever on Right Side
P-12802	P-15384	069 Main Metering Jet
P-16320	P-16320	No 60 H S Bleeder
P-16763	P-17468	Choke Spring
P-16786	P-16786	044 By Pass Jet
P-16805	P-19978	Choke Tube Holder
P-17494	P-18894	Main Body
P-17497	P-22702	Idle Tube with No 72 Feed Hole and 5/64 Top Hole (A)
P 17498	P-17498	1⅜" Venturi

INTERNATIONAL MOTORS MODEL 1934 "AP" (2-AP-2118)
5"x6"—6 Cylinder (AP Engine)
F-2902 SF-5 Carburetor (Code No 24-41)

Sdt Part No	Special Parts	Used on Above Model Truck
P-3223	P-15277	Elbow Union
P-10001-K	P-9705-K	Throttle Lever on Right Side
P-15748	P-15384	077 Metering Jet
P 16786	P-16786	060 By-Pass Jet
P-16805	P-19977	Choke Tube Holder on Left Side
P-17535	P-21127	Throttle Valve Body with 54-60 Idle Holes and Flange Tapped 7/16-14'
P-17497	P-19888	Idle Tube No 68 Feed and No 68 Top Holes

INTERNATIONAL MOTORS 1935 MODEL "CQ BUS" (2-CF-315)
4¼"x5½"—6-Cylinder (CF Eng)
A-17654 SF-4 Carburetor (Code No 24 35-B)

Sdt Part No	Special Parts	Used on Above Model Truck
P-3223	P-18930	Elbow Union
P-10001	P-13498-K	Throttle Lever on Left Side
P-12802	P-15384	062' Metering Jet
P-16320	P-16320	No 60 H S Bleeder
P-16786	P-16786	044' By-Pass Jet
P-17493	P-18234	Thro Valve Body with No 54-60 Idle Holes and Flange Tapped ⅜-16
P-17494	P-18894	Main Body
P 17497	P-22702	Idle Tube with No 72 Feed Hole and 5/64 Top Hole (B)
P-17498	P-17498	1⅜" Venturi
P-17515	P-21576	Choke Valve
None Shown	P-20873	Throttle Stop Groove Pin

NOTE Fuel Level ⅞ at 2 lbs pressure

KLEIBER TRUCK
3⅞"x4½"—6-Cylinder (Cont E-601)
F-2667 SF-3 Carburetor (Code No 95-1)

Std Part No	Special Parts	Used on Above Model Truck
P-10001	P-10812-K	Throttle Lever on Left Side
P-12802	P-15384	054" Metering Jet
P-16842	P-16842	Thro Valve Body with No 58-66 Idle Holes and Flange Drilled 13/32

KOEHRING TRUCK
5¼'x6½"—6-Cylinder (Wis. D-12 Eng)
F-2738 SF-3 Carburetor (Code No 60-3)

Std Part No	Special Parts	Used on Above Model Truck
P-10001-K	P-17806-K	Throttle Lever on Right Side
P-12802	P-15384	054 Metering Jet
P-16805	P-17880	Choke Tube Holder
P-16842	P-16842	Thro Valve Body with No 58-66 Idle Holes and Flange Drilled 13/32"
P-16845	P-16845	1 1/16" Venturi
P-16866	P-17801	Throttle Stem
P-16868	P-18117	Choke Lever Stem
None Shown	P-16631K	Throttle Loose Lever on Left Side
None Shown	P-6123-K	Throttle Loose Lever Stop
None Shown	P-18119	Extra Choke Lever

NOTE Vacuum Pump and By-Pass Jet omitted and plugged

KOEHRING TRUCK
5¼"x6½'—4-Cylinder (Wis B-2 Eng)
F-3058 SF-3 Carburetor (Code No 60-1)

Std Part No	Special Parts	Used on Above Model Truck
P-10001	P-17806	Throttle Lever on Left Side
P-12802	P-15384	058 Main Metering Jet
P-16763	P-17468	Choke Lever Return Spring
P-16805	P-17879	Choke Tube Holder
P-16842	P-16842	Thro Valve Body with No 58-66 Idle Holes and Flange Drilled 13/32'
P-16845	P-16845	1 3/16" Venturi
P-16866	P-17801	Throttle Stem
P-16868	P-18117	Choke Stem
None Shown	P-18119	Extra Choke Lever
None Shown	P-16631-K	Throttle Loose Lever
None Shown	P-17287-K	Throttle Loose Lever Stop

NOTE Vacuum Pump and By-Pass Jet omitted and plugged

MACK-INTERNATIONAL TRUCK CO MODEL BX (2-CF-32)
4½"x5½ —6 Cylinder Engine
F-3486 SF-4 Carburetor (Code No. 24-20-A)

Std Part No	Special Part No	Used on Above Model Truck
P 3223	P-18929	Union Assy
P-12802	P-15384	072 Metering Jet
P-16320	P-16320	No 60 High Speed Bleeder
P-16763	P-17468	Choke Return Spring
P-16786	P-16786	048 By Pass Jet
P-16799	P-18857	Choke Lever Assembly on Right Side
P-16805	P-19979	Choke Tube Holder Assembly on Right Side
P-17493	P-18234	Throttle Body No 54-60 Idle Holes
P 17494	P-18894	Main Body
P-17497	P-22702	Idle Tube with No 72 Feed Hole and 5/64 Top Hole
P-17498	P-17498	1 7/16 Venturi Tube
None Shown	P-22713	Idle Tube Washer
None Shown	P-20216-K	Throttle Lever Assembly on Right Side

MACK-INTERNATIONAL MOTOR CO MODEL CH (2-CE-33)
4 x5½"—6 Cylinder Engine
F-3423 SF-4 Carburetor (Code No 24-18)

Std Part No	Special Part No	Used on Above Model Truck
P 3223	P-18929	Union
P-10001-K	P-13498-K	Throttle Lever on Right Side
P 12802	P-15384	060 Metering Jet
P-16320	P-16320	No 70 H S Bleeder
P-16763	P-17468	Choke Lever Spring
P-16786	P-16786	034 By Pass Jet
P-16799	P-18857	Air Horn Lever
P-16805	P-19978	Tube Holder
P-17493	P-18234	Throttle Valve Body with No 54-60 Idle Holes
P-17494	P-18894	Main Body
P-17497	P-19888	Idle Tube No 68 Feed and No 68 Top Hole
P-17498	P-17498	1 5/16 Venturi
None Shown	P-9745	Taper Pin

MACK-INTERNATIONAL MOTOR
1936-37 AB (2-AB-3141-A)
4¼"x5'—4-Cylinder Own AB Engine
A 17873 SF-3 Carburetor (Code No 24-101)

Std Part No	Special Part No	Used on Above Model Truck
P-10001-K	P-13498-K	Throttle Lever Assy
P-12802	P 15384	049 Metering Jet
P-16786	P-16786	020" By-Pass Jet
P-16805	P-19977	Choke Tube Holder Assy
P-16842	P-18436	Throttle Body No 58-66 Idle Holes, Flange Tapped ⅜ -16
P-16843	P-21673	Main Body Assy
P-16845	P-16845	1⅛ Venturi
P-16847	P-22711	Idle Tube with No 72 Feed Hole and 5/64 Top Hole
P-16859	P-21758	Choke Valve Assy
P-16868	P-22750	Choke Lever Stem Assy
P-18449	P-16795	Throttle Stop
None Shown	P-26	⅛' Drain Boss Pipe Plug
None Shown	P-9745	Throttle Stop Taper Pin

NOTE Fuel Level 31/32 at 2 pounds pressure

SPECIFICATIONS OF STANDARD EQUIPPED TRUCKS
PARTS AND SETTINGS EXCEPTIONS MODELS SF-3-4-5 STANDARD CARBURETORS (C ntinued)

NELSON LE MOON
4⅜"x5⅛ —6 Cylinder Waukesha 6-SRL Engine
F-3236 SF-3 Carburetor (Code No. 120-9)

Std. Part No	Special Parts Used on Above Model Truck	
P-14334	P-14334	No 56 High Speed Bleeder
P-16786	P-16786	040' By Pass Jet
P-16845	P-16845	1¼ Venturi

OSHKOSH MODEL "WHX-6"
4⅜"x5⅛"—6-Cylinder (Wauk. 6-SRL)
F-2182 SF-3 Carburetor (Code No. 90-3)

Std. Part No.	Special Parts Used on Above Model Truck	
P-12802	P-13091	080" Adj Metering Jet
P-14334	P-14334	No 56 H S Bleeder
P-16786	P-16786	040 By-Pass Jet .
P-16845	P-16845	1¼" Venturi

REO MOTORS (1-A-229)
Buda K-393 and K-428 Eng)
F-3142 SF-4 Carburetor (Code No. 12-7)

Std. Part No.	Special Parts Used on Above Model Truck	
P-10001	P-19300	Throttle Lever (17/64" on 1⅛ CC) on Left Side .
P-16763	P-17468	Choke Spring
P-16786	P-16786	028" By-Pass Jet
P-16805	P-17461	Choke Tube Holder on Right Side
P-17498	P-17498	1⅜" Venturi
P-17519	P-17884	Throttle Stem
None Shown	P-19892-K	Loose Lever on Left Side
None Shown	P-17287-K	Loose Lever Stop

REO MOTORS THREE-TON TRUCK 1934 (1-EA-1985-5)
3⅝"x5"—6-Cylinder
No. A-17853—SF-3 Carburetor (Code No 12-6)

Std. Part No.	Special Parts Used on Above Model Truck	
P-10001-K	P-20209-K	Throttle Lever on Left Side
P-12251	P-20207	Throttle Valve with No 45 Hole
P-12802	P-15384	Metering Jet 060"
P-16786	P-16786	By-Pass Jet 050"
P-16842	P-16842	Throttle Valve Body with No. 55-65 Idle Holes, Flange Tapped ⅜-16"
P-16843	P-20213	Main Body
P-16845	P-16845	Venturi 1 5/16"
None Shown	P-20211	Pump Reducer No 56

SEAGRAVE (X-7466)
4⅝"x4¾"—6-Cylinder (Herc. YXC-3 Eng.)
F-2404 SF-4 Carburetor (Code No. 97-1)

Std. Part No.	Special Parts Used on Above Model	
P-10001	P-13498-K	Throttle Lever no Right Side
P-12802	P-15384	066" Metering Jet
P-16805	P-18780	Choke Tube Holder on Left Side
P-17498	P-17498	1⅜" Venturi

STEWART 1932-33 "32X" AND "29XS" (B-25334)
3¾"x4½" 6 Cyl.
A-16463 SF-3 Carburetor (Code No 28-2)

Std Part No.	Special Part Used on Above Model Car	
P-3278	P-3279	Union Nipple
P-10001-K	P-13498-K	Throttle Lever on Right Side
P-14334	P-14334	No 56 H S Bleeder
P-12802	P-12512	055" Met Jet
P-16763	P-17468	Air Horn Lever Spring
P-16786	P-16786	036" By Pass Jet
P-16805	P-17461	Tube Holder
P-16843	P-17323	Main Body
P-16845	P-16845	1⅛" Venturi
P-18449	P-16795	Thro Stop

STEWART 1932 MODEL "58-8" (B-25089)
3⅜"x4½" 8 Cyl.
A-16523 SF-3 Carburetor (Code No. 28-1)

Std. Part No.	Special Part Used on Above Model Truck	
P-3278	P-10042	Union
P-10001-K	P-13498-K	Thro Lever
P-14334	P-14334	No 56 H S Bleeder
P-12802	P-12512	061" Meter Jet
P-16786	P-16786	040" By Pass Jet
P-16842	P-16842	Thro Valve Body with No 58-66 Idle Holes and Flange Drilled 13/32"
P-16843	P-17323	Main Body
P-16845	P-16845	1-7/32" Venturi
P-18449	P-16795	Thro Stop

STEWART 1932 MODEL "38-6" (B-25517)
4⅜"x5⅛" 6 Cyl
A-16553 SF-3 Carburetor (Code No. 28-3)

Std. Part No	Special Part Used on Above Model Truck	
P-3278	P-5028	Elbow Union
P-10001-K	P-13498-K	Throttle Lever on Right Side
P-14334	P-14334	No 56 H S Bleeder
P-12802	P-13091	Adj Meter Jet with 080" Restriction
P-16786	P-16786	040" By Pass Jet
P-16763	P-17468	Spring
P-16805	P-17461	Tube Holder
P-16842	P-17487	Thro Valve Body with No 58-66 Idle Holes, Flange Tapped ⅜-16"
P-16843	P-17323	Main Body
P-16845	P-16845	1¼" Venturi
P-18449	P-16795	Stop

WHITE MOTOR (75886)
4"x4½"—6-Cylinder (Model 16 Eng)
F-2589 SF-3 Carburetor and Equipment (Code No 29-8)

Std. Part No.	Special Parts Used on Above Model Truck	
P-3278	P-3222	Union Elbow
P-10001	P-12122-K	Throttle Lever on Left Side
P-16786	P-16786	034' By-Pass Jet
P-16842	P-16842	Thro Valve Body No 58-66 Idle Holes, Fl drilled 13/32" on side toward Float Chamber Cover and tapped ⅜"-16 over Air Horn

EQUIPMENT
P-19839 Manifold Fitting

NOTE P-7098 Plug to be assembled in Barrel of Carburetor Hole in top of Flange open

YELLOW COACH AND TRUCK MFG CO 1937 (069829)
Own "331" Engine
A-18513 SF-3 Carburetor (Code No 23-53)

Std Part No	Special Parts Used on Above Model	
P-10001-K	P-22914-K	Throttle Lever Assy
P-12802	P-15384	062 Metering Jet
P-13046	P-15297	Choke Lever Wire Clamp Screw
P-16786	P-16786	032 By Pass Jet
P-16799	P-22920	Choke Lever Assy
P-16801	P-17839	Choke Lever Wire Connector
P-16842	P-16842	Throttle Body No 58-66 Idle Holes Flange Drilled 13/32' on 2 11/16" CC
P-16843	P-22922	Main Body
P-16845	P-16845	1 5/16' Venturi
P-16859	P-21758	Choke Valve Assy
P-16868	P-21756	Choke Stem
None Shown	P-3881	Choke Stem Pin
None Shown	P-16161	Choke Stem Colar Set Screw
None Shown	P-19901	Choke Stem Collar

YELLOW COACH AND TRUCK MFG CO 1937 (069830)
Own "400" Engine
A-18523 SF-3 Carburetor (Code No 23-52)

Std Part No	Special Parts Used on Above Model	
P-10001-K	P-22914-K	Throttle Lever Assy
P-12802	P-15384	064 Metering Jet
P-13046	P-15297	Choke Lever Wire Clamp Screw
P-16786	P-16786	036 By Pass Jet
P-16799	P-22920	Choke Lever Assy
P-16801	P-17839	Choke Lever Wire Connector
P-16842	P-16842	Throttle Body No 58-66 Idle Holes Flange Drilled 13/32' on 2 11/16 CC
P-16843	P-22922	Main Body
P-16845	P-16845	1 11/16" Venturi
P-16859	P-21758	Choke Valve Assy
P-16868	P-21756	Choke Stem
None Shown	P-3881	Choke Stem Pin
None Shown	P-16161	Choke Stem Collar Set Screw
None Shown	P-19901	Choke Stem Collar

YELLOW COACH AND TRUCK MFG CO 1937 (069831)
Own "450" Engine
A-18514 SF-4 Carburetor (Code No 23-51)

Std Part No	Special Parts Used on Above Model	
P-10001-K	P-22914-K	Throttle Lever Assy
P-12802	P-15384	067 Metering Jet
P-13041	P-15297	Choke Lever Wire Clamp Screw
P-16320	P-16320	No 60 High Speed Bleeder
P-16786	P-16786	056 By Pass Jet
P-16795	P-18449	Throttle Stop Assy
P-16799	P-22920	Choke Lever Assy
P-16801	P-17839	Choke Lever Wire Connector
P-17493	P-17493	Throttle Body No 54-60 Idle Holes Flanged Drilled 15/32 on 3 5/16" CC
P-17494	P-22921	Main Body
P-17498	P-17498	1½" Venturi

SPECIFICATIONS OF STANDARD EQUIPPED INDUSTRIAL EQUIPMENT PARTS AND SETTINGS EXCEPTIONS MODELS SF-3-4-5 STANDARD CARBURETORS (Continued)

FATE ROOT HEATH

5"x6½"—4-Cylinder (Buda "BTU" Eng)

F-3020 SF-3 Carburetor

Sdt Part No	Special Parts Used on Above Model	
P-16763	P-17468	Choke Lever Return Spring
P-16805	P-17461	Choke Tube Holder
P-16843	P-17323	Main Body (Square Flange Air Horn)
P-16845	P-16845	1¼" Venturi

NOTE Vacuum Pump and By-Pass Jet omitted and plugged

FATE ROOT HEATH

5½"x7"—4-Cylinder (Climax TU Eng)

F-3024 SF-4 Carburetor (Code No. 92-3)

Sdt Part No	Special Parts Used on Above Model	
P-12802	P-15748	Adj Metering Jet
P-16320	P-16320	No 60 H S Bleeder
P-17250	P-17250	No 20 Main Discharge Jet
P 17494	P-18214	Main Body (Square Flange Air Horn)
P-17497	P-21126	Idle Tube No 60 Feed and No 52 Top Holes
P-17498	P-17498	1 5/16" Venturi

NOTE (Pump By-Pass Jet and Check Valve omitted and plugged)

FOOTE

4⅞"x5⅛"—6-Cylinder (Wauk 6-SRK)

F-2958 SF-3 Carburetor (Code No. 48-1)

Sdt Part No	Special Parts Used on Above Model	
P-10001	P-21115	Thro Lever (No 12 DR on 1½ CC) on Left Side
P-12802	P-15384	064 Metering Jet
P-14334	P-14334	No 65 H S Bleeder
P-16763	P-21114	Choke Lever Return Spring
P-16799	P-21116	Choke Lever on Left Side
P-16845	P-16845	1 5/16" Venturi

NOTE (Pump, By-Pass Jet, Check Valve omitted and plugged)

HARNISHFEGER

6¼"x8"—4-Cylinder (Wauk. W L Engine)

F-3108 SF-5 Carburetor

Sdt Part No	Special Parts Used on Above Model	
P-16766	P-19195	Choke Valve Screws
P-16799	P-6990	Choke Lever
P-16805	P-1120	Lock Plunger
	P-1122	Lock Plunger Spring
	P-19194	Lock Plunger Holder
P-17739	P-17739	1 9/16" Venturi

NOTE Vacuum Pump and By-Pass Jet omitted and plugged

NORTHWEST ENGINEERING POWER PLANT MODELS "6 TO 85" INCL TWIN CITY ENGINES TYPE E

7¼" x 8" 4 Cyl and 7¾" x 9" 4 Cyl

A-17534 SF-4 Carburetor (Code No 84-9)

Std Part No	Special Part Used on Above Model	
P-10001-K	P-16399	Throttle Lever on Left Side
P-15384	P-15748	Adj Meter Jet
P-16320	P-16320	No 50 H S Bleeder
P-16786	P-12465	059" By Pass Jet
P-16795	P-12788	Thro Stop
P-16799	P-16415	Air Horn Lever on Right Side
P-16805	P-5903	Lock Plunger Holder
	P-1120	Lock Plunger
	P-1122	Lock Plunger Spring
P-16990	P-16786	No 38 Econ Valve
P-17250	P-18779	No 31 Main Disch Jet
P-17493	P-17493	Thro Valve Body with No 54-60 Idle Hole and Flange Drilled 15/32"
P-17494	P-18774	Main Body
P-17498	P-17498	1½" Venturi
P-17506	P-18775	Vac Pump Assem
P-17515	P-6000	Air Horn Valve
P-17517	P-18784	Air Horn Lever Stem
P-17519	P-18855	Thro Stem
P-18811	P-19868	Needle and Seat
None Shown	P-3292	Pipe Plug

SCHRAMM MODEL "240" (ZB-80-A)

F-2659 SF-3 Carburetor (Code No 33-5)

Std Part No.	Special Parts Used on Above Model	
P-12802	P-15384	054' Metering Jet
P-16766	P-19195	Lock Plunger Holder Attach Screws
P-16799	P-21680	Choke Lever on Right Side
P-16805	P-19194	Lock Plunger Holder
P-16866	P-21112	Throttle Stem
None Shown	P-1120	Lock Plunger
None Shown	P-1112	Lock Plunger Spring

NOTE Vacuum Pump, By-Pass Jet and Check Valve omitted and plugged

SCHRAMM MODEL "360 COMP." (ZC-80-A)

F-2676 SF-4 Carburetor (Code No 33-7)

Std Part No.	Special Parts Used on Above Model	
P-3223	P-3278	Union
P-12802	P-15384	065' Metering Jet
P-16766	P-19195	Lock Plunger Holder Attach Screws
P-16799	P-21680	Choke Lever on Right Side
P-16805	P-19194	Lock Plunger Holder
P-17493	P-21122	Throttle Valve Body with 54-60 Idle Holes and Flange Tapped ⅜-16"
P-17498	P-17498	1⅜" Venturi
P-17519	P-21123	Throttle Stem
None Shown	P-1064	Union Reducer Nipple
None Shown	P-1120	Lock Plunger
None Shown	P-1122	Lock Plunger Spring

NOTE Pump, By-Pass Jet and Check Valve omitted and plugged

SCHRAMM MODEL "360 COMP" (ZC-80-B)

6"x7⅛"—4-Cylinder (Buda JK-4 Eng)

F-2911 SF-4 Carburetor (Code No 33-11)

Std Part No	Special Parts Used on Above Model	
P-3223	P-3278	Union
P-12802	P-15384	062' Metering Jet
P-16786	P-16786	040" By-Pass Jet
P-16799	P-21125	Choke Lever on Right Side
P-16805	P-19194	Lock Plunger Holder
P-17493	P-21122	Throttle Valve Body with 54-60 Idle Holes and Flange Tapped ⅜-16"
P-17498	P-17498	1¼" Venturi
P-17519	P-21123	Throttle Stem
None Shown	P-1064	Reducer (Assem in Thro Valve Body)
None Shown	P-1120	Lock Plunger
None Shown	P-1122	Lock Plunger Spring
None Shown	P-19195	Lock Plunger Holder Attach Screws

NOTE Throttle Lever, Throttle Stop Check Valve omitted

SCHRAMM MODEL "300" COMP. (ZD-80)

5¾"x7⅛"—4-Cylinder (Buda JV-4)

F-3022 SF-4 Carburetor (Code No 33-6)

Std Part No	Special Parts Used on Above Model	
P-3223	P-1064	Union Reducer Nipple
	P-3728	Union
P-12802	P-15384	062' Metering Jet
P-16766	P-19195	Lock Plunger Holder Attach Screws
P-16786	P-16786	040" By-Pass Jet
P-16799	P-21680	Choke Lever on Right Side
P-16805	P-19194	Lock Plunger Holder
P-17493	P-21122	Throttle Valve Body with 54-60 Idle Holes and Flange Tapped ⅜-16"
P-17498	P-17498	1¼" Venturi
P-17506	P-21132	Pump Assembly
P-17519	P-21123	Throttle Stem
None Shown	P-1120	Lock Plunger
None Shown	P-1122	Lock Plunger Spring

NOTE Check Valve omitted

SCHRAMM

6¼"x7⅛"—4 Cylinder Buda "JL-4" Engine

F-3599 SF-4 Carburetor (Code No 33-16A)

Std Part No	Special Parts Used on Above Model Engine	
P-16766	P-19195	Lk Plunger Holder Attaching Screw
P-16786	P-16786	040" By-Pass Jet
P-16799	P-21680	Choke Lever on Right Side
P-16805	P-19194	Lock Plunger Holder
P-17493	P-21122	Throttle Valve Body with No 54-60 Idle Holes and Flange Tapped ⅜-16
P-17506	P-21132	Pump Assembly
P-17519	P-21123	Throttle Stem
P-19911	P-5444	Pump Adj Screw
None Shown	P-1120	Lock Plunger
None Shown	P-1122	Lock Plunger Spring

NOTE Set Pump Screw so as to be ⅜" between tap of nut and underside of screw head

PARTS AND SETTINGS EXCEPTIONS MODELS SF-3-4-5 STANDARD CARBURETORS

ADDITIONAL

AUTOCAR 1937 (6D-450-B)
3-3/4x4 6 Cylinder Engine

A-17973 SF-3 Carburetor (Code No. 31-26A)

Standard Part No.	Special Part No.	Used on Above Model
P-10001-K	P-21588	Assembly Throttle Lever
P-12802	P-15384	Metering Jet .060"
P-14334	P-14334	High Speed Bleeder #65
P-16781	P-16786	Assembly By-pass Jet .036"
P-16843	P-19903	Assembly Main Body
P-16845	P-16845	Venturi Tubes -- 1-1/4"
P-16859	P-21758	Assembly Choke Valve
P-16866	P-21592	Assembly Throttle Stem
P-16868	P-21756	Choke Stem
P-18449	P-21590	Assembly Throttle Stop
None Shown	P-3881	Pin -- Choke Stem
	P-16161	Set Screw -- Choke Stem Collar
	P-19901	Collar -- Choke Stem

MACK 1938 (234GB310)
3-3/4x4-3/8 6 Cylinder FK Cont. Engine

A-18053 SF-3 Carburetor (Code No. 24-125)

Standard Part No.	Special Part No.	Used on Above Model
P-10001-K	P-20216-K	Assembly Throttle Lever
P-12802	P-15384	Metering Jet .058"
P-14334	P-14334	High Speed Bleeder #65
P-16805	P-19977	Assembly -- Choke Tube Holder
P-16842	P-23814	Assembly -- Throttle Body
P-16843	P-19903	Assembly -- Main Body
P-16845	P-16845	Venturi Tube 1-1/4"
P-16847	P-22711	Idle Tube
P-16859	P-19898	Choke Valve
P-16868	P-22750	Assembly Choke Lever Stem
None Shown	P-3881	Pin -- Choke Stem End

A-18703 STANDARD SF-3 Carburetor
(With Off-set Choke) (Code No. 1-69)

Standard Part No.	Special Part No.	Used on Above Model
P-14334	P-14334	High Speed Bleeder #65
P-16843	P-19903	Assembly -- Main Body
P-16786	P-16786	Assembly -- By-pass Jet .028"
P-16845	P-16845	Venturi Tube -- 1-3/16"
P-16859	P-21758	Assembly -- Choke Valve
P-16868	P-22750	Assembly -- Choke Lever Stem
None Shown	P-3881	Pin -- Choke Stem End

YELLOW COACH & TRUCK MFG. COMPANY
1937 (069830) Models F-61 & F-61H
4-1/8x5 6 Cylinder Own 400 Engine

A-18523 SF-3 Carburetor (Code No. 23-52A)

Standard Part No.	Special Part No.	Used on Above Model
P-10001-K	P-22914-K	Assembly -- Throttle Lever
P-12802	P-15384	Metering Jet .064"
P-14334	P-14334	High Speed Bleeder #65
P-16786	P-16786	Assembly By-pass Jet .036"
P-16799	P-22920	Assembly -- Choke Lever
P-16843	P-22922	Assembly -- Main Body
P-16845	P-16845	Venturi Tube -- 1-5/16"
P-16859	P-21758	Assembly Choke Valve
P-16868	P-21756	Choke Stem
None Shown	P-3881	Pin -- Choke Stem
	P-16161	Set Screw -- Choke Stem Collar
	P-19901	Collar -- Choke Stem

YELLOW COACH & TRUCK MFG. COMPANY
1937 (069829) Model F-46
3-3/4x5 6 Cylinder Own 331 Engine

A-18513 SF-3 Carburetor (Code No. 23-53A)

Standard Part No.	Special Part No.	Used on Above Model
P-10001-K	P-22914-K	Assembly -- Throttle Lever
P-12802	P-15384	Metering Jet -- 062"
P-14334	P-14334	High Speed Bleeder #65
P-16786	P-16786	Assembly By-pass Jet .032"
P-16799	P-22920	Assembly Choke Lever
P-16843	P-22922	Assembly Main Body
P-16845	P-16845	Venturi Tube -- 1-5/16"
P-16859	P-21758	Assembly Choke Valve
P-16868	P-21756	Choke Stem
None Shown	P-3881	Pin -- Choke Stem
	P-16161	Set Screw Choke Stem Collar
	P-19901	Collar Choke Stem

YELLOW COACH & TRUCK MFG. COMPANY
1937 (069831) Models F-61 Special &
F-61H Special
4-3/8x5 6 Cylinder Own 450 Engine

A-18514 SF-4 Carburetor (Code No. 23-51A)

Standard Part No.	Special Part No.	Used on Above Model
P-10001-K	P-22914-K	Assembly Throttle Lever
P-12802	P-15384	Metering Jet .067"
P-16320	P-16320	High Speed Bleeder #60
P-16786	P-16786	Assembly By-pass Jet .056"
P-16795	P-18449	Assembly -- Throttle Stop
P-16799	P-22920	Assembly Choke Lever
P-17494	P-22921	Assembly Main Body
P-17498	P-17498	Venturi Tube 1-1/2"

SPECIFICATIONS OF STANDARD EQUIPPED INDUSTRIAL EQUIPMENT
PARTS AND SETTINGS EXCEPTIONS MODELS SF-3-4-5 STANDARD CARBURETORS (Continued)

THEW SHOVEL (MODEL "L-45")
6"x6½"—4-Cylinder (Wauk. HL Eng.)
F-2156 SF-4 Carburetor

Std. Part No.	Special Parts Used on Above Model	
P-10001	P-16980	Throttle Lever on Left Side
P-16795	P-18449	Throttle Stop
P-16799	P-16981	Choke Lever
P-16805	P-1120	Lock Plunger
	P-1122	Lock Plunger Spring
	P-5903	Lock Plunger Holder
P-17498	P-17498	1⅜" Venturi
P-17494	P-18334	Main Body

NOTE Vacuum Pump Assembly and By-Pass Jet omitted and plugged

THEW SHOVEL
5¾"x8"—4 Cylinder Wauk "WS" Engine
F-3425 SF-5 Carburetor (Code No 88-10)

Std Part No	Special Part Used on Above Model Shovel	
P-10001	P-16980	Throttle Lever on Right Side
P-15748	P-12802	Adjustable Metering Jet
P-16766	P-19195	Lock Plunger Holder Attach Screw
P-16799	P-6990	Choke Lever on Right Side
P-16805	P-19194	Lock Plunger Holder
P-17739	P-17738	1⅜" Venturi
None Shown	P-1120	Lock Plunger
None Shown	P-1122	Lock Plunger Spring

NOTE Vac Pump, By-Pass Jet and Check Valve Omitted and Plugged

WHITCOMB LOCOMOTIVE
5" x 6"—4 Cylinder Wis. "RBU" Engine
F-3234 SF-3 Carburetor (Code No. 147-2)

Std. Part No	Special Parts Used on Above Model Engine	
P-6845	P-16845	1⅛" Venturi
P-14334	P-14334	No 56 High Speed Bleeder

NOTE Vac Pump, By-Pass Jet and Check Valve Omitted and Plugged

WICHITA
4⅜"x5⅛"—6-Cylinder (Wauk. 6-SRL Eng.)
F-1886 SF-3 Carburetor (Code No. 112-1)

Std Part No.	Special Parts Used on Above Model	
P-12802	P-13091	Adj Metering Jet with 080 restriction
P-14334	P-14334	No 56 H S Bleeder
P-16786	P-16786	040" By-Pass Jet
P-16845	P-16845	1¼" Venturi

WICHITA FALL M. CO.
4⅞" x 5⅛"—6 Cylinder Wauk 6SRK Engine
F-3159 SF-4 Carburetor (Code No. 112-5)

Std Part No	Special Parts Used on Above Model Engine	
P-16786	P-16786	044" By-Pass Jet
P-17498	P-17498	1 5/16" Venturi

WICHITA FALL SO
4¼" x 4¾"—6 Cylinder Wauk. 6 KU Eng
F-3737 SF-3 Carburetor (Code No. 112-3)

Std. Part No	Special Parts Used on Above Model Engine	
P-16786	P-16786	032" By-Pass Jet
P-16845	P-16845	1¼" Venturi

SPECIFICATIONS OF STANDARD EQUIPPED INDUSTRIAL ENGINES PARTS AND SETTINGS EXCEPTIONS MODELS SF-3-4-5 STANDARD CARBURETORS

BUDA (5913)

4½ x5¼ —6-Cylinder (L-525 Eng)

F-2563 SF-4 Carburetor (Code No 35-2)

Std Part No	Special Part No	Used on Above Model Engine
P-3223	P-5028	Elbow Union
P-12802	P-15384	082′ Main Metering Jet
P-16795	P-18449	Throttle Stop

NOTE Vacuum Pump and By-Pass Jet omitted and plugged

BUDA COMPANY (1-SE-550)

6″x7¼″—6-Cylinder ("JK-6" Engine)

F-2870 SF-5 Carburetor (Code No 35-4)

Std Part No	Special Parts	Used on Above Model Engine
P-3223	P-3278	Union
P-15748	P-15384	082 Metering Jet
P-17739	P-17739	1⅝″ Venturi
P-19911	P-5468	Plug
None Shown	P-1064	Union Reducing Nipple

NOTE Plug Vac Suction Hole in Barrel of Carburetor with P-7098

BUDA (4804)

4 1/16″x4¾″—6 Cylinder Own K-369 Engine

F-3891 SF-4 Carburetor (Code No 35-14)

Std Part No	Special Parts	Used on Above Model Engine
P-3223	P-3278	Union
P-10001-K	P-13498-K	Throttle Lever on Right Side
P-12802	P-15384	080 Metering Jet
None Shown	P-1064	Union Reducer

CLIMAX ENGINEERING COMPANY

5″x6½″—4-Cylinder ("K" Engine)

F-2822 SF-3 Carburetor (Code No 51-2)

Std Part No	Special Parts	Used on Above Model Engine
P-12802	P-15384	054 Metering Jet
P-16766	P-19195	Lock Plunger Holder Attach Screws
P-16799	P-14120	Choke Lever
P-16805	P-19194	Lock Plunger Holder
P-16845	P-16845	1⅛″ Venturi
None Shown	P-1120	Lock Plunger
None Shown	P-1122	Lock Plunger Spring

NOTE Vac Pump By Pass Jet and Check Valve omitted and plugged

CLIMAX MODEL "TU"

5½″x7′—4-Cylinder

F-3499 SF-4 Carburetor (Code No 51-1)

Std Part No	Special Part No	Used on Above Model Engine
P-14794	P-18214	Main Body (Square Flange)
P-17498	P-17498	1 5/16″ Venturi

NOTE Vacuum Pump and By-Pass Jet omitted and plugged

CONTINENTAL MOTOR (E-601-F-400)

3⅞″x4½″—6-Cylinder

F-2511 SF-3 Carburetor (Code No 34-15)

Std Part No	Special Part No	Used on Above Model Engine
P-10001-K	P-10812-K	Throttle Lever on Left Side
P-12802	P-15384	054 Metering Jet

HERCULES MOTOR (16224-BS)

4⅞″x5¼″—6-Cylinder (RXB Engine)

F-2722 SF-4 Carburetor (Code No 27-9)

Std Part No	Special Part No	Used on Above Model Engine
P-10001-K	P-13498	Throttle Lever on Left Side
P-12802	P-15384	074 Main Metering Jet
P-16795	P-18449	Throttle Stop

NOTE Pump Capcaity 40 CC per 10 strokes

HERCULES MOTOR (18669-BS)

4″x4½″—6-Cylinder ("WXC" Engine)

F-2784 SF-3 Carburetor (Code No 27-8)

Std Part No	Special Parts	Used on Above Model Engine
P-10001	P-13498-K	Throttle Lever on Left Side
P-12802	P-15384	068 Metering Jet
P-16805	P-21052	Choke Tube Holder on Left Side
P-16845	P-16845	1⅛″ Venturi

HERCULES MOTOR (19604BS)

4¼″x4½″—6 Cylinder Own WXC-3 Engine

F-3532 SF-3 Carburetor (Code No 27-16)

Std Part No	Special Parts	Used on Above Model Engine
P-10001-K	P-13498-K	Throttle Lever on Left Side
P-12802	P-15384	054 Metering Jet
P-16805	P-21052	Choke Tube Holder on Left Side

WAUKESHA MOTOR (53032)

F-2294 SF-3 Carburetor (Code No 26-9)

Standard Specifications, except omit Union

WAUKESHA MOTOR (55035)

"WK" Engine

F-4199 SF-5 Carburetor (Code No 26-42)

Std Part No	Special Part	No for Above Model
P-16320	P-16320	No 60 High Speed Bleeder
P-17494	P-18214	Main Body
P-17535	P-17535	Throttle Body No 56-70 Idle Holes Flanged Tapped ⅜ -16
P-17739	P-17739	1 11/16 Venturi
None Shown	P-6406	Plug
None Shown	P-5468	Plug
None Shown	P-6087	Plug
None Shown	P-7098	Plug

NOTE Pump Omitted

WAUKESHA MOTOR (55027)

F-2307 SF-5 Carburetor (Code No 26-16)

Std Part No	Special Part No	Used on Above Model Engine
P-10001	P-16980	Throttle Lever on Right Side
P-16320	P-16320	No 60 H S Bleeder
P-16799	P-16981	Choke Lever
P-16805	P-1120	Lock Plunger
	P-1122	Lock Plunger Spring
	P-5903	Lock Plunger Holder
P-17494	P-18334	Main Body (Square Flange Air Horn)
P-17535	P-17535	Throttle Valve Body No 56-70 Idle Holes Flange Tapped 7/16″-14
P-17739	P-17739	1 7/16″ Venturi

NOTE Vacuum Pump and By-Pass Jet omitted and plugged

WAUKESHA MOTOR (54017)

5½—6″x6½″—4-Cylinder (Wauk HSG and HL Eng)

F-2488 SF-4 Carburetor (Code No 26-12)

Std Part No	Special Part No	Used on Above Model Engine
P-12802	P-15384	074′ Metering Jet
P-16795	P-18449	Throttle Stop
P-17494	P-18214	Main Body (Square Flange Air Horn)
P-17498	P-17498	1⅜′ Venturi

NOTE Vacuum Pump and By-Pass Jet omitted and plugged

WISCONSIN MOTOR (L-14)

6⅞″x7″—4 Cylinder Own K-2 Engine

F-1869 SF-4 Carburetor (Code No 25-25)

Std Part No	Special Parts	Used on Above Model Engine
P-10001-K	P-17806-K	Throttle Lever on Left Side
P-12802	P-15384	074 Metering Jet
P-16763	P-17468	Choke Return Spring
P-16795	P-18449	Throttle Stop
P-16805	P-17461	Choke Tube Holder on Right Side
P-17493	P-17493	Throttle Valve Body with No 54-60 Idle Holes and Flange Drilled 15/32″
P-17498	P-17498	1⅜ Venturi Tube
P-17519	P-17884	Throttle Stem

NOTE Vac Pump By-Pass Jet and Check Valve Omitted and Plugged

WISCONSIN MOTOR (L-15-3)

5¼ x6½″—6-Cylinder (D-4 Engine)

F-2424 SF-3 Carburetor (Code No 25-13)

Std Part No	Special Part No	Used on Above Model Engine
P-10001	P-17806-K	Throttle Lever on Right Side
P-12802	P-15384	054 Metering Jet
P-16805	P-17880	Choke Tube Holder on Left Side
P-16842	P-16842	Throttle Valve Body with No 58-66 Idle Holes and Fl Drilled 13/32″
P-16845	P-16845	1⅛′ Venturi
P-16866	P-17801	Throttle Stem
P-16868	P-18117	Choke Stem
None Shown	P-16631-K	Loose Lever on Left Side
None Shown	P-17287-K	Loose Lever Stop
None Shown	P-18119	Extra Choke Lever on Left Side

NOTE Pump By-Pass Jet and Check Valve omitted and plugged

WISCONSIN MOTOR (L-15-9)

4¼″x5″—6-Cylinder (L-4 Eng)

F-2794 SF-3 Carburetor (Code No 25-17)

Std Part No	Special Part No	Used on Above Model Engine
P-10001-K	P-17806-K	Throttle Lever on Right Side
P-16842	P-16842	Throttle Valve Body No 58-66 Idle Holes Flange Drilled 13/32″
P-16845	P-16845	1⅛″ Venturi
P-16805	P-17880	Choke Tube Holder
P-16866	P-17801	Throttle Stem
P-16868	P-18117	Choke Stem
P-18449	P-16795	Throttle Stop
None Shown	P-18119	Extra Choke Lever
None Shown	P-16631-K	Throttle Loose Lever on Left Side
None Shown	P-17287-K	Throttle Loose Lever Stop

NOTE Omit P-16990 Pump Check Valve and leave Channel open

SPECIFICATIONS OF STANDARD EQUIPPED INDUSTRIAL ENGINES
PARTS AND SETTINGS EXCEPTIONS MODELS SF-3-4-5 STANDARD CARBURETORS (Continued)

WISCONSIN MOTOR (L-14-4)
F-2957 SF-4 Carburetor (Code No 25-28)

Std Part No	Special Parts Used on Above Model Engine	
P-10001	P-21341	Throttle Lever on Right Side
P-12802	P-15384	076 Metering Jet
P-16805	P-17461	Choke Tube Holder on Right Side
P-17493	P-17493	Throttle Valve Body with 54-60 Idle Holes and Flange Drilled 15/32"
P-17498	P-17498	1⅜ Venturi
P-17519	P-17884	Throttle Stem
None Shown	P-14677-K	Loose Lever on Left Side
None Shown	P-17287-K	Loose Lever Stop

NOTE Pump By-Pass Jet and Check Valve omitted and plugged

WISCONSIN MOTOR (L-15-10)
6 x7 —6 Cylinder ("E' Engine)
F-3062 SF-3 Carburetor (Code No 25-15)

Std Part No	Special Parts Used on Above Model Engine	
P 10001	P-21320 K	Throttle Lever on Right Side
P-12802	P-15384	062 Metering Jet
P-16805	P-17880	Choke Tube Holder on Left Side
P-16842	P-16842	Throttle Valve Body with No 58-66 Idle Holes and Flange Drilled 13/32
P-16866	P-17801	Throttle Stem
P-16868	P-18117	Choke Stem
P-18449	P-16795	Throttle Stop
None Shown	P-16631-K	Loose Lever on Left Side
None Shown	P-17287-K	Loose Lever Stop
None Shown	P-18119	Extra Choke Lever on Left Side

NOTE Vacuum Pump, By-Pass Jet and Check Valve omitted and plugged

WISCONSIN MOTOR CO (L-15 11)
6⅛ x7"—6 Cyl E Engine
F-3063 SF-3 Carburetor (Code No 25-16)

Std Part No	Special Parts Used on Above Model	
P 10001	P 21320	Throttle Lever Assy on Left Side
P-12802	P 15384	075 Metering Jet
P 16763	P 17468	Choke Return Spring
P-16805	P-17879	Choke Tube Holder Assy on Right Side
P-16842	P 16842	Throttle Body with No 58 66 Idle Holes and Flange Drilled 13/32 on $2\frac{15}{16}$ CC
P-16845	P-16845	$1\frac{5}{16}$ Venturi
P-16866	P-17801	Throttle Stem
P-16868	P-18117	Choke Stem
None Shown	P 6406	Plug
None Shown	P-5468	Plug
None Shown	P 6087	Plug
None Shown	P-7098	Plug
None Shown	P-16631 K	Loose Lever on Right Side
None Shown	P 17287	Loose Lever Stop Assy on Right Side
None Shown	P 18119	Extra Choke Lever Assy on Right Side

NOTE Pump Assy Omitted

WISCONSIN MOTOR (L-15-12)
6'x7 —6 Cylinder ("E" Engine)
F 3064 SF-3 Carburetor (Code No 25-18)

Std Part No	Special Parts Used on Above Model Engine	
P-10001	P 21320 K	Throttle Lever on Left Side
P-12802	P-15384	062 Metering Jet
P-16763	P-17468	Choke Spring
P-16805	P-17461	Choke Tube Holder on Left Side
P-16842	P-16842	Throttle Valve Body with No 58 66 Idle Holes and Flange Drilled 13/32'
P-16843	P-17822	Main Body
P-16866	P-17801	Throttle Stem
P-16868	P-18117	Choke Stem
None Shown	P-16631-K	Loose Lever on Right Side
None Shown	P-17287-K	Loose Lever Stop
None Shown	P-18119	Extra Choke Lever on Left Side

NOTE Vacuum Pump By-Pass Jet and Check Valve omitted and plugged

WISCONSIN MOTOR (L-15 14)
Wisconsin "E 2" Engine
F-3065 SF-3 Carburetor (Code No 25-21)

Std Part No	Special Parts Used on Above Model Engine	
P-10001-K	P-21320 K	Throttle Lever on Right Side
P-12802	P-15384	075 Metering Jet
P-16805	P-17880	Choke Tube Holder on Left Side
P-16842	P-16842	Throttle Valve Body with No 58 66 Idle Holes and Flange Drilled 13/32
P-16845	P-16845	$1\frac{5}{16}$ Venturi Tube
P-16866	P-17801	Throttle Stem
P-16868	P-18117	Choke Stem
P-18449	P-16795	Throttle Stop
None Shown	P-16631-K	Loose Lever on Left Side
None Shown	P-17287-K	Loose Lever Stop
None Shown	P-18119	Extra Choke Lever on Left Side

NOTE Vac Pump By-Pass Jet and Check Valve Omitted and Plugged

WISCONSIN MOTOR (L-15-13)
F-3066 SF-3 Carburetor (Code No 25-20)

Std Part No	Special Parts Used on Above Model Engine	
P-10001	P-21320-K	Throttle Lever on Right Side
P-12802	P-15384	059 Metering Jet
P-16805	P-17880	Choke Tube Holder on Left Side
P-16845	P-16845	1⅛' Venturi
P-16866	P-17801	Throttle Stem
P-16868	P-18117	Choke Stem
P-18449	P-16795	Throttle Stop
None Shown	P-18119	Extra Choke Lever on Left Side
None Shown	P-16631-K	Loose Lever on Left Side
None Shown	P-17287	Loose Lever Stop

NOTE Pump By Pass Jet and Check Valve omitted and plugged

WISCONSIN MOTOR (L-15-8)
F-3067 SF-3 Carburetor (Code No 25-14)

Std Part No	Special Parts Used on Above Model Engine	
P-10001	P-21320-K	Throttle Lever on Right Side
P-12802	P-15384	056 Metering Jet
P-16805	P-17880	Choke Tube Holder on Left Side
P-16842	P-16842	Throttle Valve Body with No 58-66 Idle Holes and Flange Drilled 13/32"
P-16845	P-16845	$1\frac{1}{16}$' Venturi
P-16866	P-17801	Throttle Stem
P-16868	P-18117	Choke Stem
P 18449	P-16795	Throttle Stop
None Shown	P-16631 K	Loose Lever on End of Stem
None Shown	P-17287	Loose Lever Stop

NOTE Pump By Pass Jet and Check Valve omitted and plugged

WISCONSIN MOTORS MODEL "E" (L-15 17)
F-3194 SF 3 Carburetor (Code No 25-23)

Std Part No	Special Parts Used on Above Model Engine	
P-16845	P-16845	No $1\frac{5}{32}$ Venturi
P-12802	P-15284	No 062 Main Metering Jet
P-10001	P-20271	Throttle Lever on Right Side
P-18449	P-21118	Throttel Stop pinned on Left Side
P-16866	P 21121	Throttle Stem
P-16805	P-17880	Choke Tube Holder
P-16868	P-18117	Choke Stem
None Shown	P-16631-K	Throttle Loose Lever
None Shown	P-17287	Throttle Loose Lever Stop
None Shown	P-18119	Extra Choke Lever

NOTE Vacuum Pump Check Valve and By-Pass omitted and plugged

WISCONSIN MOTOR (L 15 20)
5¼'x6½'—4 Cyylinder Own 'B 2' Eng
F-3417 SF 3 Carburetor (Code No 25-39)

Std Part No	Special Parts Used on Above Model Engine	
P-10001	P-17806 K	Throttle Lever on Left Side
P-12802	P-15384	058 Metering Jet
P-16763	P-17468	Choke Lever Return Spring
P-16805	P-17879	Choke Tube Holder on Right Side
P-16845	P-16845	$1\frac{3}{16}$ Venturi
P-16866	P-17801	Throttle Stem
P-16868	P-18117	Choke Stem
None Shown	P-16631 K	Loose Lever on Right Side
None Shown	P-17287	Loose Lever Stop
None Shown	P-18119	Extra Choke Lever on End of Stem

NOTE Vac Pump By Pass Jet and Check Valve Omitted and Plugged

WISCONSIN MOTORS (L-15-24)
4¼'x5"—6 Cylinders Own "L-4" Engine
F-3643 SF-3 Carburetor (Code No 25 36)

Std Part No	Special Parts Used on Above Model Engine	
P 10001	P 21341-K	Throttle Lever on Right Side
P-12802	P 15384	063 Metering Jet
P-16805	P-17880	Choke Tube Holder on Left Side
P-16842	P-16842	Throttle Valve Body with No 58-66 Idle Holes and Flange Drilled 13/32
P-16868	P 18117	Choke Stem
P-16866	P 17801	Throttle Lever Stem
None Shown	P-16631	Loose Lever on Left Side
None Shown	P-17287	Loose Lever Stop
None Shown	P-18119	Extra Choke Lever on End of Stem

NOTE Vac Pump By-Pass Jet and Check Valve Omitted and Plugged

WISCONSIN MOTOR CO
4½ x5"—6 Cyl 'Z Engine
F 3220 SF 4 Carburetor (Code No 25-76)

Std Part No	Special Parts Used on Above Model	
P-10001	P-17806-K	Throttle Lever Assy on Right Side
P-16763	P-17468	Choke Lever Spring
P-16805	P-17461	Choke Tube Holder Assy
P 17493	P-17493	Throttle Body with No 54 60 Idle Holes Flange Drilled 15/32 on $3\frac{5}{16}$ CC
P 17498	P-17498	1⅜ Venturi
P 17519	P-17884	Throttle Stem
None Shown	P-14677-K	Loose Lever on Left Side
None Shown	P-17287	Loose Lever Stop on Left Side

SPECIFICATIONS OF STANDARD EQUIPPED INDUSTRIAL ENGINES

PARTS AND SETTINGS EXCEPTIONS MODELS SF-3-4-5 STANDARD CARBURETORS (C ntinued)

WISCONSIN MOTOR CO. (L-15-5)

3¾″x5″—6 Cyl. "G-2" Engine

F-3719 SF-3 Carburetor (Code No 25-42)

Std. Part No.	Special Parts Used on Above Model	
P-10001	P-17806-K	Throttle Lever Assy on Right Side
P-12802	P-15384	056″ Metering Jet
P-16763	P-17468	Choke Return Spring
P-16805	P-17880	Choke Tube Holder Assy on Left Side
P-16842	P-16842	Throttle Body with No 58-66 Idle Holes and Flange Drilled 13/32′ on $2\frac{15}{16}$″ CC
P-16845	P-16845	1⅛″ Venturi
P-16866	P-17801	Throttle Stem
P-16868	P-18117	Choke Stem
None Shown	P-6406	Plug
None Shown	P-6087	Plug
None Shown	P-5468	Plug
None Shown	P-7098	Plug
None Shown	P-16631-K	Loose Lever on Left Side
None Shown	P-17287	Loose Lever Stop Assy on Left Side
None Shown	P-18119	Extra Choke Lever Assy on Left Side

NOTE Pump Assembly Omitted

WISCONSIN MOTOR CO (L-14-8)

"KO-2" Motor

F-4253 SF-4 Carburetor (Code No 25-64)

Std Part. No	Special Part No for Above Model	
P-10001	P-21320	Throttle Lever Assy on Right Side
P-12802	P-15384	078′ Metering Jet
P-16763	P-17468	Choke Lever Spring
P-16805	P-17461	Choke Tube Holder on Right Side
P-17493	P-17493	Throttle Body No 54-60 Idle Holes, Flange Drilled 15/32″ on $3\frac{5}{16}$″ CC
P-17498	P-17498	1⅜′ Venturi
P-17517	P-17884	Throttle Stem
None Shown	P-6406	Plug
None Shown	P-6087	Plug
None Shown	P-5468	Plug
None Shown	P-7098	Plug
None Shown	P-14677-K	Loose Lever on Left Side
None Shown	P-17287	Loose Lever Stop on Left Side

NOTE Pump Omitted

WISCONSIN MOTOR COMPANY (L-15-35)

"D-4" Engine

F-4267 SF-3 Carburetor (Code No. 25-65)

Std. Part No.	Special Parts Used on Above Model	
P-10001	P-21320-K	Throttle Lever Assy on Left Side .
P-12802	P-15384	059′ Metering Jet
P-16763	P-17468	Choke Return Spring
P-16805	P-17879	Choke Tube Holder Assy on Right Side
P-16842	P-16842	Throttle Body with No 58-66 Idle Holes and Flange Drilled 13/32″ on $2\frac{15}{16}$′ CC
P-16845	P-16845	1⅛ Venturi
P-16866	P-17801	Throttle Stem
P-16868	P-18117	Choke Stem
None Shown	P-6406	Plug
None Shown	P-5468	Plug
None-Shown	P-6087	Plug
None Shown	P-7098	Plug
None Shown	P-16631-K	Loose Lever on Right Side
None Shown	P-17287	Loose Lever Stop Assy on Right Side
None Shown	P-18119	Extra Choke Lever Assy on Right Side

NOTE Pump Assy Omitted

WISCONSIN MOTOR COMPANY (L-15-39)

"D-12" Engine

F-4442 SF-3 Carburetor (Code No. 25-77)

Std Part No.	Special Parts Used on Above Model	
P-10001	P-21320-K	Throttle Lever Assy on Left Side
P-12802	P-15384	055″ Metering Jet
P-16763	P-17468	Choke Return Spring
P-16805	P-17879	Choke Tube Holder Assy on Right Side
P-16842	P-16842	Throttle Body with No 58-66 Idle Holes and Flange Drilled 13/32′ on $2\frac{15}{16}$′ CC
P-16845	P-16845	$1\frac{1}{16}$ Venturi
P-16866	P-17801	Throttle Stem
P-16868	P-18117	Choke Stem
None Shown	P-6406	Plug
None Shown	P-5468	Plug
None Shown	P-6087	Plug
None Shown	P-7098	Plug
None Shown	P-16631-K	Loose Lever on Right Side
None Shown	P-17287	Loose Lever Stop Assy on Right Side
None Shown	P-18119	Extra Choke Lever Assy on Right Side

NOTE Pump Assy Omitted

REPLACEMENT EQUIPMENT

PARTS AND SETTINGS EXCEPTIONS MODELS SF-3-4-5 STANDARD CARBURETORS

(Trucks and Industrial Equipment)

ACME TRUCK 1928 31 MODEL "76'

4⅛"x4¾"—6 Cyl Continental 20R Engine

J-4749 SF-3 Carburetor (Code No 129-7)

Std Part No	Special Parts Used on Above Model	
P-12802	P-15384	062 Metering Jet
P-16786	P-16786	050' By Pass Jet
P-16845	P-16845	1 5/16 Venturi

A C & F. BUS 1932 MODELS "508, 153, 154, 155"

4¼"x5½"—6 Cylinder Hall Scott Engine

J-4258 SF-3 Carburetor (Code No 132-3)

2 Carburetors to One Motor

Std Part No	Special Part No Used on Above Model Busses	
P-16845	P-16845	1' Venturi

EQUIPMENT

P-4753 Flange Gasket

ALLIS CHALMERS 1927-28 MODEL "20-35"

4¾" x 6½—4 Cylinders

J-4635 SF-3 Carburetor (Code No 128-1)

Std Part No	Special Parts Used on Above Model Tractor	
P-10001	P-10812-K	Throttle Lever on Left Side
P-16766	P-19195	Lk Plunger Holder Attach Screw
P-16799	P-6990	Choke Lever
P-16805	P-19194	Lock Plunger Holder
P-16842	P-16842	Throttle Valve Body with No 58-60 Idle Holes and Flange Tapped ⅜ -16
P-16845	P-16845	1 5/16 Venturi
None Shown	P-1120	Lock Plunger
None Shown	P-1122	Lock Plunger Spring

NOTE Vacuum Pump By-Pass Jet and Check Valve Omitted and Plugged

EQUIPMENT

P 21913 Bell Crank Assembly—J-2921-F Fitting—P-4753 Flange Gasket—P-3324 Cap Screws—P-5364 Lock Washer

AMERICAN MOTOR BODY CO SAFEWAY TRUCK

4⅛"x5¼"—6 Cylinder Cont 7T Engine

J-4605 SI-3 Carburetor (Code No 170-1)

Std Part No	Special Parts Used on Above Model Truck	
P-3278	P-5028	Elbow Union
P-10001	P-9705-K	Throttle Lever on Right Side
P-16786	P-16786	032 By-Pass Jet
P-16805	P-18780	Choke Tube Holder on Left Side
P-16845	P-16845	1¼ Venturi

AMERICAN MOTOR BODY CO MODEL "64-3K-90" SAFEWAY TRUCK

4¼"x5¼"—6 Cylinder Cont 12T Engine

J-4624 SF-3 Carburetor (Code No 170-3)

Std Part No	Special Parts Used on Above Model Truck	
P-3278	P-6305	Elbow Union
P-10001	P-9705-K	Throttle Lever on Left Side
P-16799	P-17378	Choke Lever on Left Side
P-16842	P-18447	Throttle Valve Body with No 58-66 Idle and Flange Tapped ⅜-16

AUTOCAR 1929-30 MODEL 'SA AND SDA"

4"x4½"—6 Cylinder Herc WXC Engine

J-4618 SF 3 Carburetor (Code No 31-24)

Std Part No	Special Parts Used on Above Model Truck	
P-3278	P-755	Gas Union
P-10001	P-13498-K	Throttle Lever on Right Side

AUTOCAR 1929-30 MODEL "SA & SD"

3¾" x 4½"—6 Cylinder Herc WXB Engine

J-4619 SF-3 Carburetor (Code No 31-23)

Std Part No	Special Parts Used on Above Model Truck	
P-3278	P-755	Union Nipple
P-10001	P-16062-K	Throttle Lever on Right Side
P-12802	P-15384	054 Metering Jet
P-16842	P-18447	Throttle Valve Body No 58-66 Idle Holes and Flange Tapped ⅜ -16

EQUIPMENT

P-4753 Flange Gasket

AUTOCAR 1928 "2½" TON"

4⅜"x4¾"—6 Cylinder Herc YXC Engine

J-4631 SF-4 Carburetor (Code No 31-10)

Std Part No	Special Parts Used on Above Model Truck	
P-3223	P-755	Union
P-10001	P-13498-K	Throttle Lever on Left Side
P-12802	P-15384	063 Metering Jet
P-16786	P-16786	050' By-Pass Jet
P-17498	P-17498	1 9/32 Venturi

EQUIPMENT

1-P-21966 Air Cleaner Sleeve

AUTOCAR 1930

4⅜" x 4¾"—6 Cylinder (Herc YXC Engine)

J-4633 SF-4 Carburetor (Code No 31-25)

Std Part No	Special Parts Used on Above Model Truck	
P-10001-K	P-13498-K	Throttle Lever
P-12802	P-15384	063 Metering Jet
P-16064	P-16064	20° Throttle Valve
P-16763	P-17468	Air Horn Lever Springs
P-16786	P-16786	050 By-Pass Jet
P-17498	P-17498	1 9/32 Venturi
P-17805	P-17920	Tube Holder
None Shown	P-755	Union Nipple

NOTE Throttle Valve Location Flush Plus or Minus 004

NOTE Plug-Vacuum Hole in Barrel Hole in Flange Open for Governor Conn

EQUIPMENT

1-P-21966 Air Cleaner Sleeve

AUTOCAR TRUCK 1928 MODEL 'M-T"

4¼"x4¾"—6 Cylinder Wauk "6-KU" Engine

J-4634 SF-3 Carburetor (Code No 31-14)

Std Part No	Special Parts Used on Above Model Truck	
P-26	P-8387	Pipe Plug
P-3278	P-755	Union
P-10001	P-12153-K	Throttle Lever on Right Side
P-16799	P-13073-K	Two Choke Levers on Right Side .
P-16786	P-16786	032 By-Pass Jet
P-16842	P-21094	Throttle Valve Body with No 58-66 Idle Holes and Flange Tapped ⅜-16
P-16843	P-21093	Main Body
P-16845	P-16845	1¼ Venturi
P-16868	P-18117	Choke Stem

NOTE Tube Holder Omitted

BROCKWAY 1926-28

4" x 5"—6 Cylinder Wisc H Engine

J-4617 SF-3 Carburetor (Code No 49-11)

Std Part No	Special Parts Used on Above Model Truck	
P 3278	P-3221	Elbow Union
P-10001	P-13414	Throttle Lever on Left Side
P-14334	P-14334	No 62 High Speed Bleeder
P-16786	P-16786	042 By-Pass Jet
P-16845	P-16845	1¼ Venturi
P-16866	P-17801	Throttle Stem
None Shown	P-13418	Extra Throttle Lever on Right Side

BROCKWAY MODEL 'T 30' 1929

5 x6'—4 Cylinder (Cont B-7 Eng)

J 4750 SF-3 Carburetor (Code No 49-5)

Std Part No	Special Parts Used on Above Model Truck	
P-12802	P 15384	056 Main Metering Jet
P 16847	P-19913	Idle Tube No 68 Feed and No 68 Top Hole

BROCKWAY-INDIANA TRUCK 1929 30 MODELS 'SC-120 & SC-140"

4'x4⅛"—6 Cylinder Cont 16R Engine

J-4616 SF-3 Carburetor (Code No 30-26)

Std Part No	Special Parts Used on Above Model Truck	
P 10001	P-12122-K	Throttle Lever on Right Side
P-12802	P-15384	058 Metering Jet
P-14334	P 14334	No 62 High Speed Bleeder
P-16786	P-16786	038 By Pass Jet
P-16845	P-16845	1¼ Venturi

COLEMAN TRUCK 1929

3¾" x 5"—6 Cylinder Buda "DW-6' Eng

J-4575 SF-3 Carburetor (Code No 148-1)

Std Part No	Special Parts Used on Above Model Truck	
P-3278	P-11277	Throttle Lever on Right Side
P-12802	P-15384	062 Metering Jet
P-16786	P-16786	032 By Pass Jet
P-16805	P-17880	Choke Tube Holder on Left Side
P-16845	P-16845	1 5/16 Venturi
P-18449	P-16795	Throttle Stop

DIAMOND T 1929 MODELS '302', 'U-2', 'B-69'

3¾ x 4½"—6 Cylinder Hercules WXB Engine

J-4753 SF-3 Carburetor (Code No 66 7)

Std Part No	Special Parts Used on Above Model	
P-12802	P-15384	054 Metering Jet

DIAMOND T MODEL '410', "510' 1932

4' x 4½"—6 Cylinder (Herc WXC Eng)

J-4754 SF-3 Carburetor (Code No 66-2)

Std Part No	Special Parts Used on Above Model Truck	
P-10001	P-21138	Throttle Lever on Right Side
P-12802	P-15384	054 Metering Jet

REPLACEMENT EQUIPMENT

PARTS AND SETTINGS EXCEPTIONS MODELS SF-3-4-5 STANDARD CARBURETORS (Continued)

(Trucks and Industrial Equipment)

DODGE 1931 MODELS "F-40" AND "F-60" TRUCK

3⅞' x5"—6 Cylinder Engine

J-4272 SF-3 Carburetor and Equipment (Code No 3-5)

Std Part No	Special Part No Used on Above Model Truck	
P-10001-K	P-20947	Throttle Lever (Tapped ¼-20 on 1½ CC) on Left Side
P-16763	P-17468	Choke Lever Spring
P-16786	P-16786	034' By-Pass Jet
P-16805	P-17461	Choke Tube Holder
P-16842	P-16842	Throttle Valve Body, No 58-66 Idle Holes, Flange Drilled 13/32"
P-16845	P-16845	1 5/16' Venturi

EQUIPMENT

J-4162-F Fitting—P-4753 Flange Gasket—P-4754 Flange Gasket—P-6385 Stud—P-11083 Nut

FAGEOL 1923-26 BUS

4¼" x 5½"—6 Cylinder Hall Scott O-L Engine

J-4289 SF-3 Carburetor (Code No 100-2)

Std Part No	Special Parts Used on Above Model Bus	
P-3278	P-3222	Elbow Union
P-16842	P-16842	Throttle Valve Body with No 58-66 Idle Holes and Flange Drilled 13/32
P-16845	P-16845	1¼ Venturi

EQUIPMENT

J-4219-F Fitting—P-4753 Flange Gasket—P-4754 Flange Gasket—P-4728 Nuts

FEDERAL TRUCK 1930 MODEL "3C6"

4⅛"x4¾"—6 Cylinder Cont 20R Engine

J 4581 SF-3 Carburetor (Code No 82 5)

Std Part No	Special Parts Used on Above Model Truck	
P-3278	P-3221	Elbow Union
P-10001	P-12122-K	Throttle Lever on Right Side
P-15384	P-15384	062 Metering Jet
P-16763	P-17468	Choke Lever Return Spring
P-16786	P-16786	050 By-Pass Jet
P-16805	P-17461	Choke Tube Holder on Right Side
P-16845	P-16845	1[illegible]' Venturi

FEDERAL TRUCK 1931-32 MODEL "U-6"

4" x 4½"—6 Cylinder Cont 18-R Engine

J 4614 SF-3 Carburetor (Code No 82-8)

Std Part No	Special Parts Used on Above Model Truck	
P-10001	P-9705-K	Throttle Lever on Right Side
P-16763	P-17468	Choke Lever Return Spring
P-16805	P-17461	Choke Tube Holder on Right Side
P-16845	P-16845	1¼ Venturi
P-18449	P-16795	Throttle Stop

FOUR WHEEL DRIVE 1929

4 x4¾"6 Cyl Waukesha 6 KS Engine

J 4756 SF-3 Carburetor (Code No 93-3)

Std Part No	Special Parts Used on Above Model	
P-14334	P-14334	No 56 High Speed Bleeder
P-15384	P-15384	055 Metering Jet
P-16786	P-16786	036 By Pass Jet
P-16845	P-16845	1⅛ Venturi

GENERAL MOTORS TRUCK 1930 MODELS "T-30," "T-60—5002"

3⅞"x5' —6 Cylinder Engine

J-4406 SF 3 Carburetor and Equipment (Code No 23 27)

Std Part No	Special Part No Used on Above Model Truck	
P-3278	P-3222	Union Elbow
P-10001-K	P-16584-K	Throttle Lever (15/64' on 1½" CC) on Left Side
P-16786	P-16786	032" By-Pass Jet
P-16843	P-20473	Main Body
P-16845	P-16845	1¼ Venturi

EQUIPMENT

P-4126-F Fitting—P-7160 Choke Control 50' long—P-4753 Flange Gasket—P-16035 Cap Screw

HOLT MODEL "40 60" 10-TON TRUCK

6½"x7"—4 Cylinder Engine

J-4407 SF-5 Carburetor and Equipment (Code No 91-1)

Std Part No	Special Part No Used on Above Model Truck	
P-10001	P-13498	Throttle Lever (17/64' on 1½' CC) on Right Side
P-16766	P-19195	Lock Plunger Holder Attach Screws
P-16799	P-6990	Choke Lever on Right Side
P-16805	P-19194	Lock Plunger Holder
P-17535	P-17535	Throttle Valve Body with No 54-60 Idle Holes and Flange Drilled 13/32"
P-17739	P-17739	1 7/16" Venturi
None Shown	P-1120	Lock Plunger
None Shown	P-1122	Lock Plunger Spring

NOTE Vac Pump By Pass Jet and Check Valve Omitted and Plugged

INTERNATIONAL HARVESTER MODEL "W-1"

4¼"x5½ —4 Cylinder (Hall Scott 151 Eng)

J-4526 SF-3 Carburetor (Code No 32-6)

Std Part No	Special Part No. Used on Above Model Truck	
P-3278	P-3222	Elbow Union
P-10001	P-18304	Throttle Lever on Left Side
P-16805	P-17461	Choke Tube Holder on Right Side
P-16842	P-16842	Throttle Valve Body with No 58-66 Idle Holes and Flange Drilled 15/32'
P-16845	P-16845	1⅛ Venturi
P-17468	P-16763	Choke Lever Return Spring

KING ZEITLER TRUCK 1928-29

4⅛"x4¼'—6 Cylinder Continental "20-R" Engine

J-4281 SF-3 Carburetor and Equipment

Std Part No	Special Part No Used on Above Model Truck	
P-10001	P 10001	Throttle Lever on Right Side

EQUIPMENT

P-4753 Flange Gasket

LA FRANCE MODEL ' F-3"

3¾"x4½ —6 Cyl Lycoming ASD Engine

J-4601 SF-3 Carburetor (Code No 144-2)

Std Part No	Special Parts Used on Above Model	
P-12802	P-15384	055 Metering Jet
P-14334	P-14334	No 56 H S Bleeder
P-16786	P-16786	036 By Pass Jet
P-16845	P 16845	1⅛ Venturi

LINCOLN 1920 TO 30

3⅜"x5"—8 Cylinder

J-4495 SF-3 Carburetor and Equipment (Code No 40-5)

Std Part No.	Special Part No Used on Above Model Car	
P-16799 P-16805	P-20697	Air Horn Lever
P-16842	P-20702	Throttle Valve Body, No 58-66 Idle Holes Flange Tapped ⅜-16'
P-16843	P-20703	Main Body
P-16847	P-21050	Idle Tube
None Shown	P-9745	Air Horn Lever and Thro Stop Pin

EQUIPMENT

P-20698 Bracket—P 20699 Fitting—P-20700 Air Horn Flange—P-16375 Screw—P-3678 Lock Nut

MACCAR TRUCK

All Models Using 4⅞ x5¼"—6 Cyl Hercules RXC Engine

J-4739 SF-4 Carburetor (Code No 38 10)

Std Part No	Special Parts Used on Above Model	
P-3223	P-3222 P-1064	Union Assy Reducer
P-10001	P-13498	Throttle Lever Assy on Left Side
P-16795	P-18449	Throttle Stop
P-17498	P 17498	1⅞ Venturi

MACCAR TRUCK

All Models Using 4⅞ x4¾"—6 Cyl Hercules YXC-3 Engine

J 4738 SF-4 Carburetor (Code No 38-11)

Std Part No	Special Parts Used on Above Model	
P-3223	P-1064	Reducer
	P-3222	Elbow Union
P 10001	P-13498-K	Throttle Lever Assy on Left Side
P-16795	P-18449	Throttle Stop
P-17498	P-17498	1⅞ Venturi

MACK ALL MODELS USING

4¼ x5"—4 Cylinder "AB" Engine

J-4277 SF-3 Carburetor and Equipment (Code No 24-21)

Std Part No	Special Part No Used on Above Model Trucks	
P-3278	P-6305	Union Elbow
P-10001-K	P-12122-K	Throttle Lever (17/64 on 1½ CC) on Left Side
P-16799	P-17378	Choke Lever
P-16842	P-17383	Throttle Valve Body, No 58-66 Idle Holes Flange Tapped ⅜-16
P-16845	P-16845	1-3/32' Venturi
P-16866	P-17379	Throttle Stem

EQUIPMENT

P-4753 Flange Gasket

MACK "AC" 1917 TO 1931 TRUCK

5"x6"—4 Cylinder

J-4214 SF-3 Carburetor (Code No 24-22)

Std Part No	Special Part No Used on Above Model Truck	
P-3278	P-6305	Elbow Union
P-10001-K	P-13498	Throttle Lever on Left Side
P-15384	P-15384	053' Meter Jet
P-16799	P-17378	Air Horn Lever on Left Side
P-16842	P-17383	Throttle Valve Body with No 58-66 Idle Holes Flange Tapped ⅜-16"
P-16845	P-16845	1 5/32' Venturi
P-16866	P-17379	Throttle Stem

EQUIPMENT

P-6171 Wire Connection—P-17480 Air Horn Adapter—P-1780 Screw—P-6926 Nuts

REPLACEMENT EQUIPMENT

PARTS AND SETTINGS EXCEPTIONS MODELS SF-3-4-5 STANDARD CARBURETORS (Continued)

(Trucks and Industrial Equipment)

MACK 1927 TRUCK "AK"

4⅞"x6"—4 Cylinder Own Model "AK" Engine

J-4279 SF-3 Carburetor and Equipment (Code No 24-43)

Std Part No	Special Part No. Used on Above Model Truck	
P-3278	P-15278	Union Elbow
P-10001-K	P-18304	Throttle Lever (17/64 on 1 CC) on Left Side
P-12802	P-15384	053" Main Metering Jet
P-16799	P-17378	Choke Lever
P-16845	P-16845	1 5/32" Venturi

EQUIPMENT

P-4753 Flange Gasket—P-1780 Set Screw—P-6926 Nut—P-17480 Adapter—P-6171 Wire Connector

MACK 1926-28 MODEL "AL"

4¼"x5"—6 Cylinder Engine

J-4369 SF-4 Carburetor (Code No. 24-33)

Std Part No	Special Part No Used on Above Model Truck	
P-3223	P-5028	Union Elbow
P-10001-K	P-11317	Throttle Lever
P-12802	P-15384	069 Main Metering Jet
P-16320	P-16320	No 60 High Speed Bleeder
P-16786	P-16786	044 By-Pass Jet
P-16805	P-18780	Choke Tube Holder
P-17498	P-17498	1⅜ Venturi

NOTE Exposure of lower idle hole to be 040 plus or minus 004 with throttle valve fully closed (No 64 drill go gauge, No 57 drill no go gauge)

EQUIPMENT

P-4754 Gasket—P-21966 Air Horn Sleeve

MACK 1930 MODEL "AP"

5"x6"—6 Cylinder Own AP Engine

J-4643 SF-5 Carburetor (Code No 24-82)

Std Part No	Special Parts Used on Above Model Truck	
P-10001	P-12122-K	Throttle Lever on Right Side
P-16786	P-16786	060 By-Pass Jet
P-17497	P-19888	Idle Tube No 68 Feed and No 68 Top Holes

MACK 1930 MODEL "AP" FIRE TRUCK

5"x6"—6 Cylinders

J-4644 SF-5 Carburetor (Code No 24-83)

Std Part No	Special Parts Used on Above Model Truck	
P-10001	P-12122-K	Throttle Lever on Right Side
P-16786	P-16786	060 By-Pass Jet
P-17497	P-19888	Idle Tube No 68 Feed and No 68 Top Holes

EQUIPMENT

P-21969 Fitting—P-21964 Air Cleaner Sleeve—P-21965 Vent Sleeve—P-4755 Flange Gasket

MACK 1932 "BT" BUS

4¾"x5¾"—6 Cylinder Own "BQ" Engine

J-4645 SF-4 Carburetor (Code No 24-84)

Std Part No	Special Parts Used on Above Model Bus	
P-10001	P-12122-K	Throttle Lever on Left Side
P-12802	P-15748	Adj Metering Jet
P-16786	P-16786	048" By-Pass Jet
P-17497	P-19888	Idle Tube No 68 Feed and No 68 Top Holes
P-17498	P-17498	1½" Venturi

EQUIPMENT

P-4135 Cap Screw—P-4754 Flange Gasket—P-21964 Air Horn Sleeve—P-21965 Vent Sleeve—P-21967 Fitting

MACK 1932 MODEL "BQ"

4¾"x5¾"—6 Cylinder Own "BQ" Engine

J-4646 SF-4 Carburetor (Code No 24-85)

Std Part No	Special Parts Used on Above Model Truck	
P-10001	P-12122-K	Throttle Lever on Right Side
P-12802	P-15748	Adj Metering Jet
P-16763	P-17468	Choke Return Spring
P-16786	P-16786	048 By-Pass Jet
P-16805	P-17879	Tube Holder on Right Side
P-17497	P-19888	Idle Tube, No 68 Feed and No 68 Holes
P-17498	P-17498	1½" Venturi

EQUIPMENT

P-4132 Cap Screw—P-4754 Gasket—P-21971 Fitting—P-21964 Air Horn Sleeve—P-21965 Vent Sleeve

MACK 1930-31 MODEL "BK & BJ"

4½" x 5½"—6 Cylinder Own BK Engine

J-4647 SF-4 Carburetor and Equipment (Code No 24-77)

Std Part No	Special Parts Used on Above Model Truck	
P-3223	P-5028	Elbow Union
P-10001	P-12122-K	Throttle Lever on Right Side
P-16763	P-17468	Choke Return Spring
P-16805	P-17879	Choke Tube Holder on Right Side

NOTE Throttle Valve Location Flush Plus or Minus 004

EQUIPMENT

P-4132 Cup Screws—P-4754 Flange Gasket—P-21971 Fittings—P-21964 Air Horn Sleeve—P-21966 Air Horn Sleeve—P-21965 Oil Vent Sleeve

MACK 1932 MODEL 'AC 6 AND AK 6'

4¾"x5¾"—6 Cylinder Own "BQ" Engine

J-4648 SF-4 Carburetor (Code No 24-78)

Std Part No	Special Parts Used on Above Model Truck	
P-10001	P-12122-K	Throttle Lever on Right Side
P-16763	P-17468	Choke Return Spring
P-16786	P-16786	048 By-Pass Jet
P-16805	P-17879	Tube Holder on Right Side
P-17497	P-19888	Idle Tube No 68 Feed and No 68 Top Hole
P-17498	P-17498	1½ Venturi

EQUIPMENT

P-21968 Fitting—P-21964 Air Horn Sleeve—P-21965 Vent Sleeve—P-4754 Gasket—P-4132 Cap Screw

MACK 1932 MODEL "BX"

4¼"x5½"—6 Cylinder

J-4649 SF-4 Carburetor (Code No 24-79)

Std Part No	Special Parts Used on Above Model Truck	
P-10001	P-12122-K	Throttle Lever on Right Side
P-16320	P-16320	No 60 High Speed Bleeder
P-16763	P-17468	Choke Return Spring
P-16786	P-16786	044 By-Pass Jet
P-16805	P-19978	Choke Tube Holder on Right Side
P-17497	P-19888	Idle Tube No 68 Feed and No 68 Top Holes
P-17498	P-17498	1⅜ Venturi

EQUIPMENT

P-21973 Fitting—P-21965 Vent Sleeve—P-21964 Air Horn Sleeve—P-4754 Gasket—P-4132 Cap Screws

MACK 1929 MODEL "BC AND BM" TRUCKS AND TRACTORS

3¾"-4"x5½"—6 Cylinders

J-4650 SF-3 Carburetor (Code No 24-80)

Std Part No	Special Parts Used on Above Model Truck	
P-3278	P-15278	Gas Union
P-10001	P-12122-K	Throttle Lever on Right Side
P-16763	P-17468	Choke Return Spring
P-16805	P-17879	Tube Holder on Right Side
P-16845	P-16845	Venturi

EQUIPMENT

J-3903 F Fitting—P-4753 Gasket—P-5364 Lockwasher– P-21972 Air Cleaner Elbow—P-3324 Cap Screws

MACK 1929 MODEL "BC" BUS

3¾"-4"x5½"—6 Cylinder Own "BC" Engine

J-4651 SF-4 Carburetor (Code No 24-81)

Std Part No	Special Parts Used on Above Model Bus	
P-3223	P-15278	Elbow Union
P-16320	P-16320	No 60 High Speed Bleeder
P-16763	P-17468	Choke Return Spring
P-16786	P-16786	044 By-Pass Jet
P-16805	P-19979	Choke Tube Holder on Right Side
P-17498	P-17498	1⅜ Venturi
None Shown	P-1064	Gas Union Reducer

EQUIPMENT

P-21970 Fitting—P-4754 Gasket—P-4132 Cap Screw—P-21966 Air Horn Sleeve—P-21965 Vent Sleeve

MACK 1929 MODEL "BL & BG"

3¼"-3⅝"x5"—6 Cylinders

J-4652 SF-3 Carburetor

Std Part No	Special Parts Used on Above Model Truck	
P-3278	P-15278	Elbow Union
P-10001	P-21216-K	Throttle Lever on Right Side
P-16786	P-16786	026 By-Pass Jet
P-16805	P-19977	Ch Tube Holder on Left Side
P-16847	P-19913	Idle Tube No 68 Feed and No 68 Top Holes
P-17140	P-19995	Strainer Plug
P-18448	P-16795	Throttle Stop
None Shown	P-9745	Throttle Stop Pin

EQUIPMENT

P-4753 Flange Gasket

NOTE Pump Capacity 25 CC Per 10 Strokes

MACK MOTORS 1930 MODEL "AB-6"

3¼-3⅝"x5 —6 Cylinders

J-4653 SF-3 Carburetor (Code No. 24-76)

Std Part No	Special Parts Used on Above Model Truck	
P-3278	P-15278	Elbow Union
P-10001-K	P-12122-K	Throttle Lever on Right Side
P-16845	P-16845	1 5/16" Venturi
P-16847	P-19913	Idle Tube with No 68 Feed and No 68 Top Hole

MINNEAPOLIS TRACTOR MODEL "22-44"

6" x 7"—4 Cylinder

J-4592 SF-4 Carburetor (Code No 145-2)

Std Part No	Special Parts Used on Above Model Tractor	
P-17498	P-17498	1¼" Venturi

NOTE Vacuum Pump By-Pass Jet and Check Valve Omitted and Plugged

EQUIPMENT

J-3701-F Fitting

REPLACEMENT EQUIPMENT

PARTS AND SETTINGS EXCEPTIONS MODELS SF-3-4-5 STANDARD CARBURETORS (C ntinued)

(Trucks, and Industrial Equipment)

NORTHWEST CRANE 1922-1927

6¼" x 8"—4 Cylinder Twin City "TR" Engine

J-4578 SF-5 Carburetor (Code No 84-11)

Std Part No	Special Parts Used on Above Model Crane	
P-15748	P-12802	Adj Metering Jet
P-17739	P-17739	1 5/16 Venturi

REO 1932 4 TON TRUCK

4⅛"x4¾ —6 Cylinder Buda K-381 Engine

J-4655 SF-4 Carburetor (Code No 12-25)

Std. Part No	Special Parts Used on Above Model Truck	
P-3223	P-3278	Union
P-12802	P-15384	080' Metering Jet
P-16763	P-17468	Choke Return Spring
P-16795	P-18449	Throttle Stop
P-16805	P-17461	Ch Tube Holder on Right Side
None Shown	P-1064	Union Reducer

STERLING TRUCK 1930 TO 32
MODELS "FCS-210" AND "FC-170"

5"x5¾"—6 Cylinder Waukesha Model "RB" Engine

J-4278 SF-4 Carburetor and Equipment

Std Part No	Special Part No Used on Above Model Trucks	
P-3223	P-3278	Gas Union
P-12802	P-15384	062 Main Metering Jet
P-17498	P-17498	1 5/16" Venturi

EQUIPMENT

P-4754 Flange Gasket—P-12229 Gas Line

STERLING TRUCK 5 AND 7 TON

5"x6¼' —4 Cyl Waukesha EU Motor

J 4734 SF-3 Carburetor (Code No 113-4)

Std Part No	Special Parts Used on Above Model	
P-3278	P-3222	Elbow Union Assy
P-10001-K	P-17806-K	Throttle Lever Assy on Left Side
P-16845	P-16845	1⅛ Venturi

STEWART 1930 MODEL '29XS'

3⅞"x4½"—6 Cylinder I yc AS Engine

J-4622 SF-3 Carburetor (Code No 28-30)

Std Part No	Special Parts Used on Above Model Truck	
P-3278	P-3279	Union Nipple
P-5444	P-8898	Adj Screw
P-10001-K	P-13498-K	Throttle Lever
P-14334	P-14334	No 56 High Speed Bleeder
P-15384	P-12512	055 Metering Jet
P-16763	P-17468	Air Horn Lever Spring
P-16786	P-16786	036 By-Pass Jet
P-16805	P-17461	Tube Holder
P-16845	P-16845	1⅛ Venturi
P-18449	P-16795	Throttle Stop
None Shown	P-15563	Stude (In Flange)

STEWART 1929-30 MODELS "32X AND 35X"

3⅝"x4½"—6 Cylinder Lyc AS Engine

J-4623 SF-3 Carburetor (Code No. 28-29)

Std Part No	Special Parts Used on Above Model Truck	
P-3278	P-3279	Union Nipple
P-5444	P-8898	Adj Screw
P-10001-K	P-13498-K	Throttle Lever
P-14334	P-14334	No 56 High Speed Bleeder
P-15384	P-12512	055 Metering Jet
P-16763	P-17468	Air Horn Lever Spring
P-16786	P-16786	036' By-Pass Jet
P-16805	P-17461	Tube Holder
P-16845	P-16845	1⅛' Venturi
P-18449	P-16795	Throttle Stop
None Shown	P-15049	Stude (In Flange)

TITAN TRUCK 1930-31

4⅛"x4¾"—6 Cylinder Wauk 6 MK Engine

J-4580 SF-3 Carburetor (Code No 151-1)

Specification same as Standard

TWIN COACH

3¾"x4½"—6 Cyl Hercules WXC Engine

J-4694 SF 3 Carburetor (Code No 109 5)

Std Part No	Special Part No Used on Above Model	
P-3278	P 6305	Compression Elbow Assy
P-10001 K	P-10812	Throttle Lever Assy on Right Side
P-12802	P-15384	052 Metering Jet
P-14334	P-14334	No 65 H S Bleeder
P-16799	P-22493	Choke Lever
P-16805	P-22495	Choke Tube Holder
P-16842	P-17487	Throttle Body No 58 66 Idle Holes Flange Drilled 13/32 on 2 11/16 CC
P-16845	P-16845	1/32 Venturi
P-16847	P-19913	Idle Tube

EQUIPMENT

P-22469 Fitting—P 11083 Nuts—P 5364 Lockwashers—P-4753 Flange Gasket—P-22497 Air Horn Bushing—P-22570 Air Cleaner Brackets

WHITE TRUCK MODEL '65 A"

4" x 5¼"—6 Cylinders

J-4522 SF-4 Carburetor (Code No 29-16)

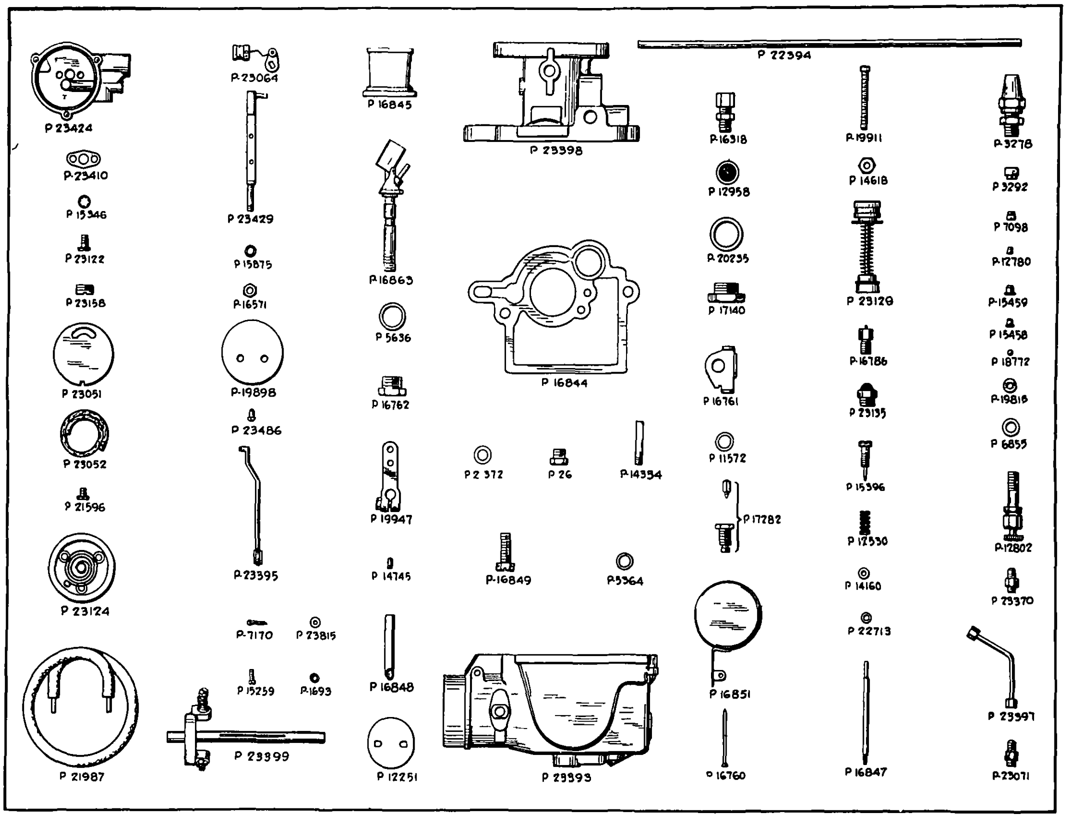
Std Part No	Special Parts Used on Above Model Truck	
P-3223	P-5028	Elbow Union
P-10001	P-11277	Throttle Lever on Right Side
P-12802	P-15384	060 Metering Jet
P-16786	P-16786	036 By-Pass Jet
P-17498	P-17498	1 9/32' Venturi

WHITE MODELS '54 A' "64' "641", '643"

4⅜ x5¼"—6 Cyl 1A Engine

J 4764 SF-5 Carburetor (Code No 29-9)

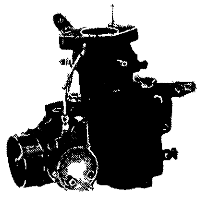
Std Part No	Special Parts Used on Above Model	
P-3223	P-5028	Union
P-10001	P 13498 K	Throttle Lever Assy on Left Side
P-15384	P-15748	Adj Metering Jet
P-16763	P-17468	Choke Spring
P-16805	P-17461	Choke Tube Holder Assy on Right Side
P-17499	P 17499	1⅜ Venturi



SF-35 No. A-18583
1½″ CARB SAE

SF-45 No. A-18584
1¾″ CARB SAE

SF-55 No. A-18585
2″ CARB SAE



Notes and References

Parts SF 35 illustrated, corresponding SF 45 and SF 55 parts shown in listing below

Standard Specifications are listed on back of this page

‡Indicates Sub-assembly part

†These parts not illustrated

PARTS LISTS STROMBERG MODELS SF-35, SF-45 AND SF-55 STANDARD CARBURETORS

Part No SF-35	Part No SF-45	Part No SF-55	Part Name
P-26	P-8387	P-8487	Plug—Gas Inlet
P-1693	P-1693	P-1693	Lockwasher—Throttle Valve Attach Screw
P-3278	P-3223	P-3223	Assembly Gas Union
P-3292	P-3292	P-3292	Plug—Vac Gov Conn
P-5364	P-5364	P-5364	Lockwasher—Main Body Attach Screw
P-5636	P-5636	P-5636	Gasket—Main Discharge Jet Nut
P-6855	P-6855	P-6855	Gasket—Adj Metering Jet
P-7098	P-7098	P-7098	Plug—Vac Suction Channel
P-7170	P-7170	P-7170	Cotter Pin—Choke Valve Kick Rod
P-11572	P-14364	P-14364	Gasket—Float Hanger & Needle Valve Seat
P-12251	P-23225	P-16065	Valve—Throttle
P-12530	P-12530	P-12530	Spring—Idle Needle Valve
P-12780	P-12780	P-12780	Plug—Idle Discharge Channel
P-12802	P-12802	P-15748	Assembly—Adj Metering Jet
P-12958	P-12958	P-12958	Assembly—Strainer
P-14160	P-14160	P-14160	Washer—Idle Tube Cork
P-14334	P-16320	P-16320	High Speed Bleeder (**VAR**)
P-14618	P-14618	P-14618	Nut—Pump Adj Screw
P-14745	P-14735	P-14735	Set Screw--Vent Tube
P-15259	P-285	P-285	Screw—Throttle Valve Attaching
P-15346	P-15346	P-15346	Lockwasher — Thermostat Housing Attach Screw
P-15396	P-15396	P-15396	Valve—Idle Needle
P-15458	P-15458	P-15458	Plug—Channel No 10
P-15459	P-15459	P-15459	Plug—Idle Channel
P-15875	P-15875		Lockwasher—Vacuum Piston Lev
P-16318	P-16318	P-16318	Assembly—Compression Union
P-16571	P-16571	P-16571	Nut—Vacuum Piston Lever
P-16760	P-16760	P-16760	Pin—Float Fulcrum
P-16761	P-17500	P-17500	Hanger—Float
P-16762	P-16762	P-16762	Nut—Main Discharge Jet
†P-16764	†P-16764	†P-16764	Pin—Choke Valve Stop
P-16786	P-16786	P-16786	Assembly—By Pass Jet (**VAR**)
P-16844	P-17496	P-17585	Gasket—Main Body
P-16845	P-17498	P-17739	Venturi Tube (**VAR**)
P-16847	P-17497	P-17497	Tube—Idle (**VAR**)
P-16848	P-17499	P-17499	Vent Tube
P-16849	P-16849	P-16849	Screw—Main Body Attaching
†P-16850	†P-16850	†P-16850	Pin—Main Disch Jet Locating
P-16851	P-17501	P-17501	Assembly--Float with Lever
P-16863	P-17250	P-17250	Assembly—Main Discharge Jet and Small Venturi (**VAR**)
P-17140	P-17140	P-17140	Plug—Strainer
P-17282	P-18811	P-18812	Float Needle Valve and Seat
P-18772	P-18772	P-18772	Lead Ball
P-19898	P-23406	P-23406	Valve—Choke
P-19911	P-19911	P-19911	Screw—Vacuum Pump Adj
P-19947	P-19947	P-19947	Assembly—Throttle Lever
P-20235	P-20235	P-20235	Gasket—Strainer Plug
P-21372	P-21372	P-21372	Gasket—Main Discharge Jet
P-21596	P-21596	P-21596	Screw—Electric Unit Attaching
P-21987	P-21987	P-21987	Auto Choke Wire
P-22394	P-22394	P-22394	Copper Tubing
P-22713	P-22713	P-22713	Washer—Idle Tube
†P-22986	†P-22986	†P-22986	Plug—Expansion
P-23051	P-23051	P-23051	Plate—Electric Unit Baffle
P-23052	P-23052	P-23052	Insulator—Electric Unit
P-23064	P-23064	P-23064	Assembly—Vacuum Piston & Lk
P-23071	P-23071	P-23071	Nipple—Vacuum Tube
P-23122	P-23122	P-23122	Screw—Thermostat Hous Attach
P-23124	P-23124	P-23124	Assembly Electric Unit
‡P-1693	‡P-1693	‡P-1693	Lockwasher—Conn Post Nut
‡P-9284	‡P-9284	‡P-9284	Nut—Conn Post
‡P-21030	‡P-21030	‡P-21030	Nut—Binding Post
‡P-21032	‡P-21032	‡P-21032	Washer
‡P-21033	‡P-21033	‡P-21033	Washer Insulation
‡P-23123	‡P-23123	‡P-23123	Washer Conn Post
P-23129	P-23126	P-23126	Assembly—Vacuum Pump
P 23135	P-23135	P-23135	Assembly—Pump Check Valve
P-23158	P-23158	P-23158	Plug—Vacuum Piston Channel
P-23370	P-23370	P-23370	Nipple Vacuum Tube
P-23393	P-23401	P-23401	Main Body Assembly
P-23395	P-23407	P-23407	Assembly Choke Valve Kick Rod
P-23397	P-23405	P-23419	Assembly—Vacuum Tube
P-23398	P-23412	P-23416	Assembly—Throttle Body (**VAR**)
P-23399	P-23413	P-23417	Assembly — Throttle Stem and Stop
‡P-15831	‡P-15831	‡P-15831	Spring—Idle Adj Screw
‡P-18552	‡P-18552	‡P-18552	Screw—Idle Adj
P-23410	P-23410	P-23410	Gasket—Thermostat Hous Boss
P-23424	P-23424	P-23424	Ass'y—Thermostat Unit Housing
P-23429	P-23430	P-23430	Assembly—Choke Stem & Pin
†P-23431	†P-23431	†P-23431	Assembly—Thermostat and Electric Unit (12 Volt Unit)
†P-23432	†P-23432	†P-23432	Assembly—Thermostat and Electric Unit
P-23486	P-23486	P-22573	Screw—Choke Valve Attach
P-23815	P-23815	P-23815	Washer—Electric Unit Attach Screw

J-4221-G SF 35 Complete Gasket Set
J-4270-G SF 45 Complete Gasket Set
J-4271-G SF 55 Complete Gasket Set

*NOTE On parts marked (**VAR**) size must be specified when ordering

STANDARD SPECIFICATIONS

A-18583 SF-35 Carburetor (Code 1-75)

Part No.	Part Name
P-14334	High Speed Bleeder—No. 65
P-16786	Assembly By-Pass Jet—.028"
P-16845	Venturi Tube—1 3/16"
P-16847	Idle Tube—No. 68
P-16863	Assembly Main Discharge Jet and Small Venturi—N . 28
P-23398	Assembly Throttle Body—No. 58-66 Idle Disch. Holes

A-18584 SF-45 Carburetor (Code 1-76)

Part No.	Part Name
P-16320	High Speed Bleeder—No. 65
P-16786	Assembly By-Pass Jet—.046"
P-17250	Assembly Main Discharge Jet and Small Venturi—No. 28
P-17497	Idle Tube—No. 66
P-17498	Venturi Tube—1 7/16"
P-23412	Assembly Throttle Body—No. 54-60 Idle Disch. Hole

A-18585 SF-55 Carburetor (Code 1-77)

Part No.	Part Name
P-16320	High Speed Bleeder—No. 65
P-16786	Assembly By-Pass Jet—.048"
P-17250	Assembly Main Discharge Jet and Small Venturi—No. 28
P-17497	Idle Tube—No. 66
P-17739	Venturi Tube—1½"
P-23416	Assembly Throttle Body—No. 54-60 Idle Disc. Holes

STANDARD SETTINGS FOR SF-35-45-55 CARBURETORS

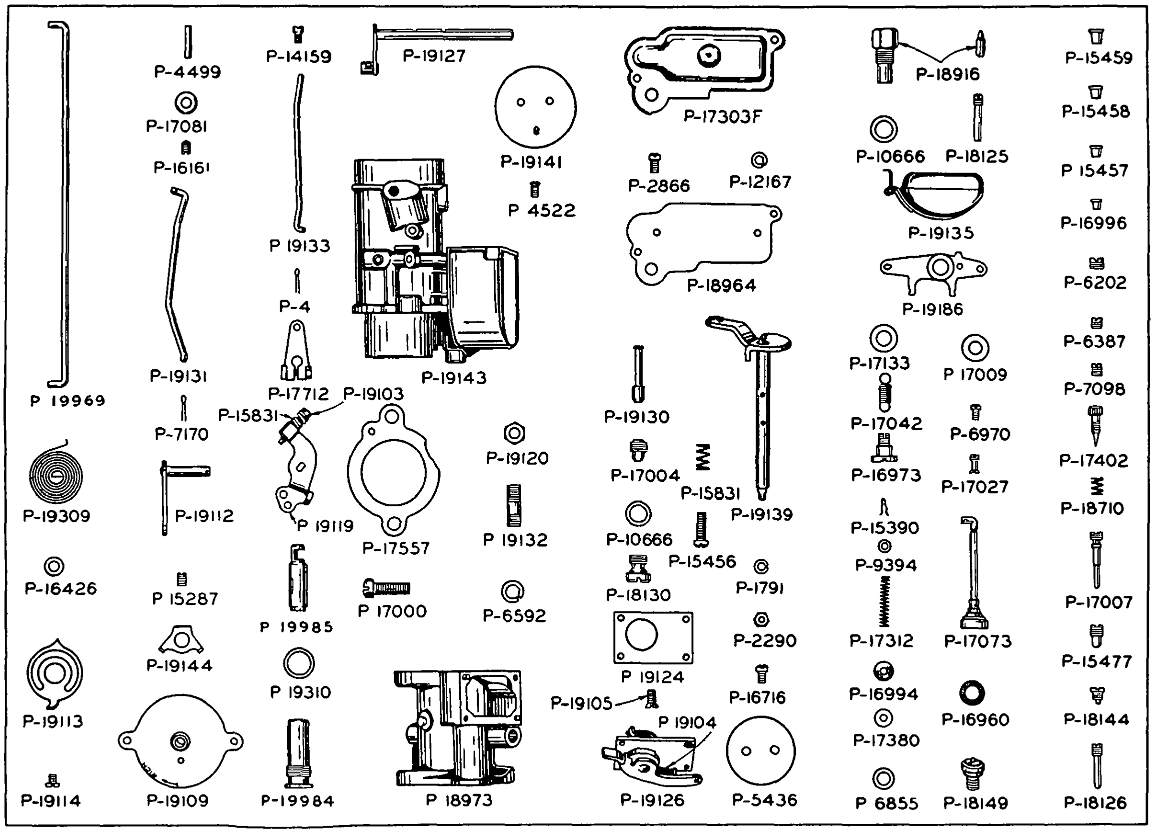
Throttle Valve Location: Lower idle hole to be exposed with valve closed. SF-45 and 55: .040" plus or minus .004"; SF-35: Lower lip of throttle valve to be flush, plus or minus .004" with top of lower idle hole.

Pump Travel: Maximum (full travel of pump).

Fuel Level: ⅞" below top face of float chamber at 2 lbs. pressure.

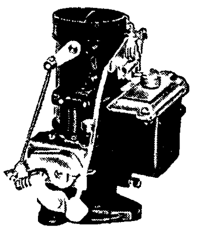
Thermostat Setting: 12 notches rich.

NOTE: Hold carburetor with float chamber toward you when determining left and right side.



E-33 N . A.17563

1½" CARB SAE



Notes and References: Car models having this carburetor with parts exceptions therefor are shown on back of this page

†These parts not illustrated

‡Indicates Sub-assembly part

PARTS LIST STROMBERG MODEL E-33 CARBURETOR (as used on Studebaker "B" 1934)

Part No.	Part Name	
P-4	Fast Idle Rod Cotter Pin	
P-4	Thermostat Washer Cotter Pin	
P-1791	Fast Idle Adj Stop and Pump Lever Nut Lockwasher	
P-2290	Fast Idle Adj Stop and Pump Lever Nut	
P-2866	Automatic Choke Unit Piston Stop Screw	
P-2866	Float Chamber Cover Att Screw	
P-4499	Choke Stem Slot Pin	
P-4522	Choke Valve Att Screw	
*P-5436	Throttle Valve	(VAR)
P-6202	Pump Discharge Nozzle Channel Plug	
P-6387	Idle Disch Plug	
P-6592	Main Body Att Screw Lockwasher	
P-6855	By-Pass Jet Gasket	
P 6970	Pump Lever Stop Screw	
P-7098	Pump Discharge Channel Plug	
P-7098	Pump Check Valve Channel Plug	
P-7170	Pump Rod Washer Cotter Pin	
P-9394	Pump Link Spring Washer	
P-9394	Pump Rod Washer	
P-9394	Fast Idle Rod Washer	
P-10666	Float Needle Valve Seat Gasket	
P-10666	Main Metering Jet Plug Gasket	
P-12167	Float Chamber Cover Att Screw Lockwasher	
P-14159	Fast Idle Rod Set Screw	
P-15287	Thermostat Lever Stop Set Screw	
P-15390	Pump Link Spring Washer Cotter Pin	
P-15456	Throttle Stop Set Screw	
P-15457	Idle Air Bleed Channel Plug	
P-15458	Idle Discharge Channel Plug	
P-15459	Idle Disch Drive Plug	
*P-15477	Idle Air Bleed	(VAR)
P-15831	Throttle Stop Set Screw Spring	
P-16120	Main Body Att Stud Nut	
P-16161	Choke Stem Collar Set Screw	
P-16426	Thermostat Washer	
P-16716	Throttle Valve Screw	
P-16960	Pump Piston Spring	
P-16973	Pump Lever Fulcrum Screw	
P-16994	Pump Link Felt Washer Cup Washer	
P-16996	Idle Air Bleed Channel Plug	
P-17000	Main Body Att Screw	
*P-17004	Main Metering Jet	(VAR)
P-17007	Idle Tube	
P-17009	Pump Lever Fulcrum Screw Lock Screw Washer	
P-17027	Pump Lever Fulcrum Screw Lockwasher	
P-17042	Pump Lever Spring	
P-17073	Pump Piston and Link Comp)	
P-17081	Choke Stem Collar	
P-17133	Pump Lever Fulcrum Screw Spring Washer	

Part No	Part Name	
P-17303-F	Float Chamber Cover	
P-17312	Pump Link Spring	
P-17380	Pump Link Felt Washer	
P-17402	Idle Needle Valve	
P-17557	Main Body Gasket	
P-17712	Choke Lever with Screw	
‡P-18300	Choke Lever Clamp Screw	
‡P-18299	Choke Lever Clamp Screw Nut	
P-18125	Float Fulcrum Screw	
*P-18126	Pump Discharge Jet	(VAR)
P-18130	Main Metering Jet Plug	
P-18144	Pump Check Valve	
P-18149	By-Pass Jet	
P-18710	Idle Needle Valve Spring	
P-18916	Float Needle Valve and Seat	
P-18964	Float Chamber Cover Gasket	
†P-18967	Thremostat Unit (complete)	
P-18970	Automatic Choke Unit Dowel Pin	
*P-18973	Throttle Valve Body	(VAR)
P-19105	Automatic Choke Unit Attach Screw	
P-19109	Thermostat Cover (Comp)	
P-19112	Thermostat Lever and Stem	
P-19113	Thermostat Bracket	
P-19114	Thermostat Bracket Attach Screw	
P-19119	Fast Idle Adj Stop and Pump Lever	
‡P-19103	Fast Idle Stop Adj Screw	
‡P 15831	Fast Idle Stop Adj Screw Spring	
P-19124	Automatic Choke Unit Gasket	
P-19126	Automatic Choke Unit	
‡P-19104	Fast Idle Lever Return Spring	
P-19127	Choke Lever and Stem (Comp)	
P-19130	Main Discharge Jet	
P-19131	Pump Rod	
P-19132	Main Body Att Stud	
P-19133	Fast Idle Rod	
P-19135	Float with Lever (Comp)	
P-19139	Throttle Lever and Stem (Comp)	
P-19141	Choke Valve (Comp)	
*P-19143	Main Body	(VAR)
P-19144	Thermostat Lever Stop	
P-19186	Pump Lever	
P-19309	Thermostat	
P-19310	Automatic Choke Unit Piston Sleeve Gasket	
P-19969	Thermostat Automatic Choke Rod	
†P-19983	Adj Pin Lead Ball	
P-19984	Automatic Choke Unit Piston Sleeve	
P-19985	Automatic Choke Unit Piston	
†P-19986	Auto Choke Piston Adj Pin	

J 4366 G E-33 Complete Gasket Set

*NOTE On parts marked (VAR) size must be specified when ordering

STANDARD SPECIFICATION

STUDEBAKER 1934 MODEL "B" (181140)

3$\frac{1}{16}$" x 3¾" 8 Cyl.

A-17563 E-33 Carburetor (Code No. 6-3)

P-5436	Throttle Valve (20°)
P-15477	No. 56 Idle Air Bleed
P-17004	.061" Meter. Jet
P-17007	Idle Tube No. 70 Feed Hole
P-18126	No. 67 Pump Disch. Nozzle
P-18149	By Pass Jet with 4 No. 56 Holes
P-18973	Thro. Valve Body with No. 56-58 Idle Holes
P-19130	No. 30 Main Jet
P-19143	Main Body with 1$\frac{5}{16}$" Venturi, No. 70 H. S. Bleeder

STANDARD SETTINGS FOR E-33 CARBURETORS

Thro. Valve Location: Upper lip of Thro. Valve to be .012 plus or minus .004 below lower edge of upper idle hole.

Pump Capacity: 7 to 9 cc (Fast) and 11 to 13 cc (Slow) per ten strokes (Minimum Pump Travel).

Economizer Setting: Pump Piston to rest on seat of By-Pass Jet (Less over travel), with Thro. Valve cracked open with a 7/32" drill plus or minus 1/64" (minimum pump travel)—inside hole on pump lever).

Slow Idle Screw: 1 turn from closed throttle position.

Fuel Level: ¾" below top face of Float Chamber at 3 lbs. pressure.

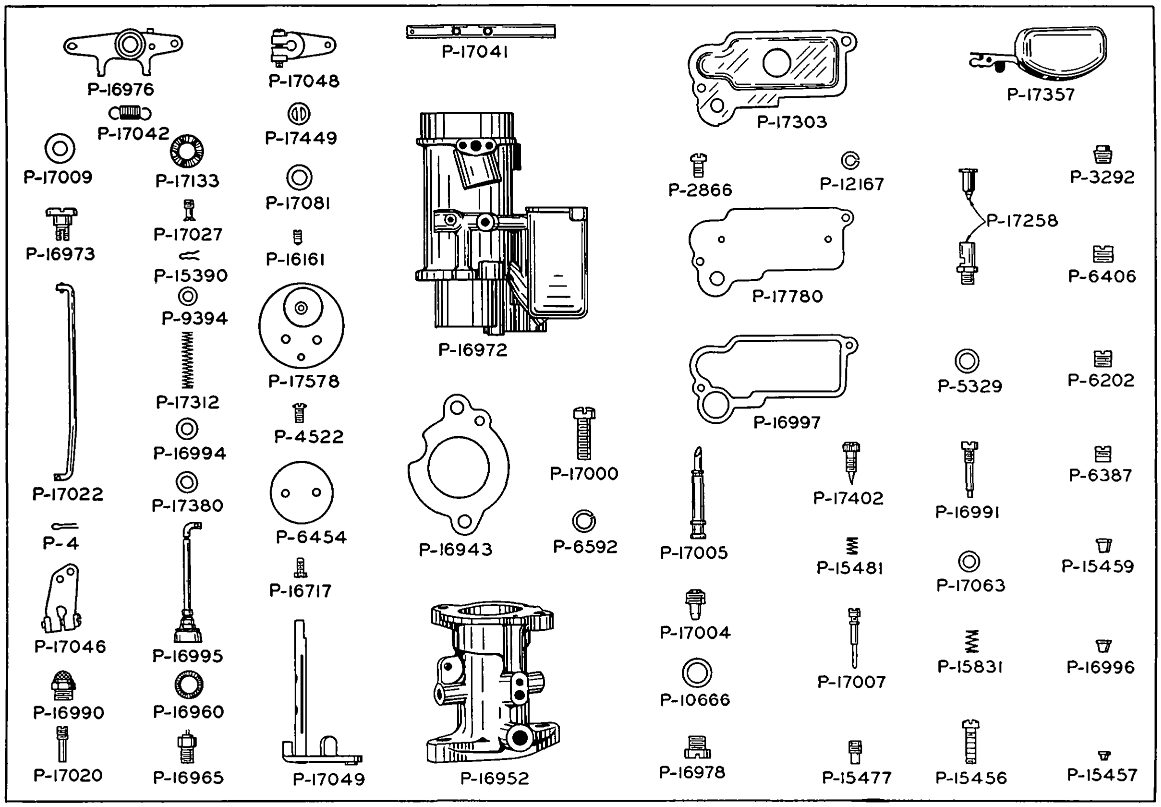
Fast Idle Screw: Adjust to crack Thro. Valve .020 (No. 76 Drill) with screw in contact with second idle step on cam.

Thermostat: Unhook Thermostat and at 70° F. (see note) hook on P-19113 to be in contact with hook on Thermostat without tension. (Stamped 0 in line with pointer).

Pump Travel Setting: Minimum.

Thermostat Setting: 8 notches rich and clamp (Prick Punch position).

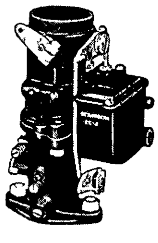
NOTE: To determine 70° F. Thermostat Setting. If temperature in room is below 70° F., turn pointer in rich direction 1 notch per each 5°, and if above 70° F., turn pointer in lean direction 1 notch per each 5°. (Allow Thermostat to cool or warm so as to be of same temperature as room.)



EC-2 N . A-16132

(Obs lete)

1¼" CARB SAE



Notes and References.

Car models having this carburetor with parts exceptions therefor are shown on back of this page.

‡Indicates Sub assembly part

PARTS LIST STROMBERG MODEL "EC-2" CARBURETOR (AS USED ON F-32, 1932 OLDSMOBILE

THIS LIST AND ILLUSTRATION TO BE USED ALSO FOR "E-2" AND "EX-2"

Part No	Name	
P-4	Choke Lever Stem Washer Cotter Pin	
P-2866	Float Chamber Cover Screw	
P-4522	Air Horn Valve Screw	
P-5329	Float Needle Valve Seat Gasket	
P-6202	Pump Discharge Nozzle Channel Plug	
P-6387	Idle Channel Screw Plug	
P-6387	Pump Discharge Channel Plug	
P-6406	Pump Check Valve Channel Plug	
*P-6454	Throttle Valve	(VAR.)
P-6592	Main Body Attaching Screw Lockwasher	
P-7170	Pump Rod Cotter Pin	
P-9394	Pump Piston and Link Spring Washer	
P-9394	Pump Rod Washer	
P-10666	Main Discharge Jet Plug Gasket	
P-12167	Float Chamber Cover Screw Lockwasher	
P-15390	Pump Piston and Link Spring Cotter Pin	
P-15456	Throttle Stop Screw	
P-15457	Idle Air Bleed Channel Plug	
P-15459	Idle Channel Drive Plug	
*P-15477	Idle Air Bleed	(VAR)
P-15481	Idle Needle Valve Spring	
P-15831	Throttle Stop Screw Spring	
P-16161	Choke Lever Stem Collar Set Screw	
P-16717	Throttle Valve Screw	
P-16943	Main Body Gasket	
*P-16952	Throttle Valve Body	(VAR)
P-16960	Pump Piston Spring	
*P-16965	Economizer By-Pass Jet	(VAR)
*P-16972	Main Body	(VAR)
P-16973	Pump Lever Fulcrum Screw	
P-16976	Pump Lever (Complete)	
P-16978	Main Discharge Jet Plug	
P-16990	Pump Check Valve	
P-16991	Float Fulcrum Screw	
P-16994	Pump Piston and Link Washer	
P-16995	Pump Piston and Link (Complete)	
P-16996	Idle Air Bleed Channel Plug	
P-16997	Float Chamber Cover Cork Gasket	
P-17000	Main Body Attaching Screw	
*P-17004	Main Metering Jet	(VAR
P-17005	Main Discharge Jet	
P-17007	Idle Tube	
P-17009	Pump Lever Fulcrum Screw Washer	
*P-17020	Pump Discharge Nozzle	(VAR
P-17022	Pump Rod	
P-17027	Pump Lever Fulcrum Screw Lock Screw	
P-17041	Choke Lever Stem	
P-17042	Pump Lever Spring	
P-17046	Pump Lever (Throttle) (Complete)	
‡P-9025	Pump Lever Screw (Throttle)	
‡P-4517	Pump Lever Screw Nut (Throttle)	
P-17048	Choke Lever with Screw (Complete)	
‡P-9025	Choke Lever Screw	
‡P-4517	Choke Lever Screw Nut	
P-17049	Throttle Lever and Stem (Comp)	
P-17063	Float Fulcrum Screw Gasket	
P-17081	Choke Lever Stem Collar	
P-17133	Pump Lever Fulcrum Screw Spring Washer	
P-17258	Float Needle Valve and Seat	
P-17303	Float Chamber Cover	
P-17312	Pump Piston and Link Spring	
P-17357	Float with Lever (Complete)	
P-17380	Pump Piston and Link Felt Washer	
P-17402	Idle Needle Valve	
P-17449	Choke Lever Stem Washer	
P-17578	Air Horn Valve (Comp)	
P-17780	Float Chamber Cover Gasket	

J-4182-G EC 2 Complete Gasket Set

*NOTE On parts marked (VAR) size must be specified when ordering

STANDARD SPECIFICATION

OLDSMOBILE "F-32" 1932 (401365)
3¼"x4⅛"—6 Cylinder
No A-16132 EC-2 Carburetor (Code No. 5-14)

P-6454	Throttle Valve 18½°
P-15477	Idle Air Bleeder No 56
P-16952	Throttle Valve Body with No 58 Idle Hole
P-16965	By-Pass Jet 060
P-16972	Main Body 1 5/32' Venturi and No 70 H S Bleeder
P-17004	Metering Jet 056'
P-17005	Main Discharge Jet No 28
P-17007	Idle Tube, No 70 Feed Hole
P-17020	Pump Discharge Nozzle No 64

STANDARD SETTINGS FOR EC-2, EX-2, E-2 CARBURETORS

Throttle Valve Location Upper lip of throttle valve to be 012 plus or minus 004 below lower edge of upper idle hole
Pump Capacity 13 CC per 10 strokes
Gas Level 9/16 below top face of fl chamber at 2 lbs pressure
Economizer Piston to rest on seat of by pass jet (less over travel), with throttle valve cracked open with 11/32 drill, plus or minus 1/64' (Max pump travel—end hole in pump lever)
Pump Travel Setting Maximum

SPECIFICATIONS OF STANDARD EQUIPPED PASSENGER CARS PARTS AND SETTINGS EXCEPTIONS MODELS EC-2, STANDARD CARBURETOR

AUBURN "12-160" 1932 (J-10005)
3⅛" x 4¼"—12 Cyl.
(2 Carburetors Used)
A-16232—EX-2 Carburetor (Left) (Code No. 17-4)
(Old Style)

Std Part No.	Special Parts Used on Above Model Car	
P-15477	P-15477	Idle Air Bleeder No 54
P-16952	P-17162	Throttle Valve Body with No 58 Idle Hole
P-16972	P-16972	Main Body 1 3/32' Venturi, No 70 H S Bleeder
P-17004	P-17004	Metering Jet 055'
P-17007	P-17076	Idle Tube No 66 Feed Hole
P-17020	P-17020	Pump Discharge Nozzle No 70
P-17022	P-17161	Pump Rod
P-17041	P-17065	Choke Stem and Stop
P-17042	P-17164	Pump Lever Spring
P-17048	P-17053	Choke Lever
P-17049	P-17165	Throttle Lever and Stem
P-17578	P-17010	Choke Valve
None Shown	P-17058	Choke Stem Bushing
None Shown	P-17059	Choke Stem Bushing Screw
None Shown	P-17068	Choke Valve Return Spring
None Shown	P-17067	Choke Tube Holder
None Shown	P-17093	Choke Tube Holder Attach Screw
None Shown	P-17132	Choke Lever Return Spring

NOTE Gas Inlet on bottom of float chamber and has submerged float needle valve and seat

NOTE Pump Capacity 11 to 14 CC per 10 strokes

Economizer Piston to rest on seat of by-pass jet, less over travel, with throttle valve cracked open with ⅜' drill, plus or minus 1/64' (Max pump travel)

AUBURN "12-165" 1933 (J-10106)
3⅛" x 4¼"—12 Cyl
2 Carburetors Per Engine
No A-17412—EX-2 Carburetor (Without Fast Idle) (Code No 17-6)
(Old Style)

Std Part No	Special Parts Used on Above Model Car	
P-15477	P-15477	Idle Air Bleeder No 54
P-16717	P-16716	Throttle Valve Screws
P-16952	P-17175	Throttle Valve Body with No 58 Idle Hole
P-16972	P-16972	Main Body 1 3/32" Venturi No 70 H S Bleeder
P-17004	P-17004	Metering Jet 055"
P-17007	P-17076	Idle Tube, No 66 Feed Hole
P-17020	P-17020	Pump Discharge Nozzle No 70
P-17022	P-17161	Pump Rod
P-17042	P-17301	Pump Lever Spring
P-17041	P-17065	Choke Stem and Stop
P-17048	P-17053	Choke Lever
P-17049	P-18518	Throttle Lever and Stem
P-17578	P-17010	Choke Valve
None Shown	P-17058	Choke Stem Bushing
None Shown	P-17068	Choke Valve Return Spring
None Shown	P-17067	Choke Tube Holder
None Shown	P-17093	Choke Tube Holder Attach Screw
None Shown	P-17132	Choke Lever Return Spring
None Shown	P-17059	Choke Lever Bushing Screw

NOTE Gas Inlet on bottom of float chamber and has submerged float needle valve and seat

NOTE Pump Capacity 11 to 14 CC per 10 strokes

Economizer Piston to rest on seat of by-pass jet, less over travel, with throttle valve cracked open with ⅜" drill, plus or minus 1/64" (Max pump travel)

AUBURN "12-160" 1932 (J-10006)
(2 Carburetors Used)
No A-16242—EX-2 Carburetor (Right) (Code No 17-5)
(Old Style

Std Part No	Part Used on Above Model Car	
P-16952	P-17175	Throttle Valve Body with No 58 Idle Hole
P-17049	P-17163	Throttle Stop and Stem
None Shown	P-17177	Throttle Connecting Stem
None Shown	P-17201	Helical Spring

NOTE Gas Inlet on bottom of float chamber and has submerged float needle valve and seat

NOTE Pump Capacity 11 to 14 CC per 10 strokes

Economizer Piston to rest on seat of by-pass jet, less over travel, with throttle valve cracked open with ⅜" drill, plus or minus 1/64' (Max pump travel)

NASH "1060" 1932 (23116)
3⅛" x 4⅜"—6 Cyl
No A-16322—E-2 Carburetor (Without Fast Idle)

Std Part No	Special Parts Used on Above Model Car	
P-15477	P-15477	Idle Air Bleeder No 51
P-16952	P-16962	Throttle Valve Body with No 58 Idle Hole
P-16972	P-16972	Main Body 1 3/32' Venturi, No. 70 H S Bleeder
P-17004	P-17004	Metering Jet 054"
P-17007	P-17076	Idle Tube
P-17020	P-17020	Pump Discharge Nozzle No 70
P-17022	P-17024	Pump Rod
P-17041	P-17065	Choke Stem (Comp)
P-17048	P-17053	Choke Lever
P-17049	P-17089	Throttle Lever and Stem
P-17578	P-17010	Choke Valve
None Shown	P-17067	Choke Tube Holder
None Shown	P-17093	Choke Tube Holder Attach Screw
None Shown	P-17058	Choke Stem Bushing
None Shown	P-17449	Choke Stem Washer
None Shown	P-17132	Choke Return Spring
None Shown	P-17068	Choke Return Spring
None Shown	P-4	Choke Stem Washer Cotter Pin

NOTE Gas Inlet on bottom of float chamber and has submerged float needle valve and seat

NOTE Pump Capacity 11 to 14 CC per 10 strokes

Economizer Piston to rest on seat of by-pass jet, less over travel, with throttle valve cracked open with ⅜" drill, plus or minus 1/64' (Max pump travel)

SPECIFICATIONS OF STANDARD EQUIPPED PASSENGER CARS
PARTS AND SETTINGS EXCEPTIONS MODELS EC-2, STANDARD CARBURETOR (C ntinued)

NASH "870' 1931

2⅞" x 4⅜"—8 Cyl

No A 17212—E-2 Carburetor (Without Fast Idle)

(Old Style

Std Part No	Part Used on Above Model Car	
P-15477	P-15477	Idle Air Bleeder No 51
P-16952	P-16962	Throttle Valve Body with No 58 Idle Hole
P-16972	P-16972	Main Body 1 3/32' Venturi, No 70 H S Bleeder
P-17004	P-17004	Metering Jet 054"
P-17007	P-17076	Idle Tube No 66 Feed Hole
P-17020	P-17020	Pump Discharge Jet No 70
P-17022	P-17024	Pump Rod
P-17041	P-17065	Choke Lever Stem
P-17048	P-17053	Choke Lever
P-17049	P-17089	Throttle Lever and Stem
P-17578	P-17010	Choke Valve (Comp)
None Shown	P-17067	Choke Tube Holder
None Shown	P 17093	Choke Tube Holder Attach Screw
None Shown	P-17132	Choke Return Spring
None Shown	P-17068	Choke Stem Torsion Spring
None Shown	P-4	Choke Stem Cotter Pin
None Shown	P-17058	Choke Stem Bushing
None Shown	P-17059	Choke Lever Bushing Screw

NOTE Gas Inlet on bottom of float chamber and has submerged float needle valve and seat

NOTE Pump Capacity 11 to 14 CC per 10 strokes

Economizer Piston to rest on seat of by-pass jet, less over travel, with throttle valve cracked open with ⅜ drill plus or minus 1/64 (Max pump travel)

PIERCE ARROW "53" 1932 (701517)

3¼" x 4"—12 Cyl

(2 Carburetors Used)

No A-16092—E-2 Carburetor (Left) (Without Fast Idle)

(Old Style)

Std Part No	Special Parts Used on Above Model Car	
P-15477	P-15477	Idle Air Bleeder No 48
P-16717	P-16716	Throttle Valve Screw
P-16972	P-17453	Throttle Valve Body with No 58 Idle Hole
P-16972	P-17052	Main Body 1 3/32 Venturi, No 70 H S Bleeder
P-17004	P-17004	Metering Jet 055'
P-17005	P-17167	Main Discharge Jet No 28
P-17020	P-17020	Pump Discharge Nozzle No 66
P-17022	P-17024	Pump Rod
P-17041	P-17095	Choke Stem with Washer
P-17042	P-17311	Pump Lever Spring
P-17049	P-17003	Throttle Lever and Stem
P-17258	P-17237	Needle and Seat
P-17578	P-17096	Choke Valve (Comp)
None Shown	P-15847	Choke Pulley
None Shown	P-15871	Choke Stem Bushing
None Shown	P-15872	Choke Wire Clamp Screw
None Shown	P-17093	Choke Tube Hldr Attach Screw
None Shown	P-15872	Choke Tube Holder
None Shown	P-16660	Choke Return Spring
None Shown	P-12866	Set Screw
None Shown	P-15877	Choke Valve Return Spring
None Shown	P-15866	Choke Stem Block
None Shown	P 16300	Spring Clip
None Shown	P 15867	Choke Wire Screw
None Shown	P-15837	Choke Block Screw

NOTE Gas Inlet on bottom of float chamber and has submerged float needle valve and seat

NOTE Pump Capacity 11 to 14 CC per 10 strokes

Economizer Piston to rest on seat of by-pass jet, less over travel, with throttle valve cracked open with ⅜" drill, plus or minus 1/64 (Max pump travel)

PIERCE-ARROW "53" 1932 (701288)

(2 Carburetors Used)

No A-16012—E-2 Carburetor (Right) (Without Fast Idle)

(Old Style)

Same as No A-16092 Left Carburetor with Following Exceptions.

Std Part No	Special Parts Used on Above Model Car	
P 17049	P-17001	Throttle Stop and Stem

NOTE Gas Inlet on bottom of float chamber and has submerged float needle valve and seat

NOTE Pump Capacity 11 to 14 CC per 10 strokes

Economizer Piston to rest on seat of by-pass jet, less over travel, with throttle valve cracked open with ⅜ drill plus or minus 1/64 (Max pump travel)

REO "S-1" 1932

3⅛" x 5"—6 Cyl

No A 16802—EX 2 Carburetor (Without Fast Idle) (Code No 12-9)

(Old Style)

Std Part No	Special Part Used on Above Model Car	
P-16952	P-17175	Throttle Valve Body with No 58 Idle Hole
P-16972	P-17218	Main Body 1$\frac{5}{32}$ Venturi No 70 H S Bleeder
P 17049	P-17871	Throttle Lever and Stem
P-17578	P-17010	Choke Valve (Comp)
None Shown	P-17053	Throttle Lever and Wire Connector
None Shown	P-17058	Choke Stem Bushing
None Shown	P-17068	Choke Lever Return Spring
None Shown	P-17067	Choke Tube Holder
None Shown	P-17449	Choke Stem Washer
None Shown	P-17093	Choke Lever Attaching Screw
None Shown	P-17132	Choke Valve Return Spring

NOTE Gas Inlet on bottom of float chamber and has submerged float needle valve and seat.

NOTE Pump Capacity 20 to 23 CC per 10 strokes (Max pump travel)

SPECIFICATIONS OF STANDARD EQUIPPED TRUCKS
PARTS AND SETTINGS EXCEPTIONS MODEL EC-2 STANDARD CARBURETOR

INDIANA 1932-33 MODEL "95" (43256)

3¾"x4⅛" 6 Cyl

A-16592 E-2 Carburetor (Code No 30-2)

(New Style)

Std Part No	Special Part Used on Above Model Truck	
P-16717	P-16716	Thro Valve Screws
P-16952	P-17882	Thro Valve Body with No 58 Idle Hole
P-16965	P-18149	4 No 56 By Pass Jet
P-16972	P-18982	Main Body with 1$\frac{5}{32}$ Venturi No 70 H S Bleeder
P-16978	P-18130	Plug
P-16990	P-18144	Check Valve
P-16991	P-18125	Fulcrum Screw
P-17004	P-17004	059 Meter Jet
P-17020	P-18126	No 70 Pump Disch Nozzle
P-17022	P-17024	Pump Rod
P-17041	P-18266	Stem
P-17046	P-17047	Pump Lever (Throttle)
P-17048	P-17053	A H Lever
P-17049	P-17877	Thro Lever and Stem
P-17258	P-18913	Needle and Seat
P-17303	P-17823	Float Cover
P-17357	P-17486	Float with Lever
P-17578	P-17010	Air Horn Valve
P-17780	P-18964	Gasket
None Shown	P-17825	Vent
None Shown	P-8495	Expansion Plug
None Shown	P-17067	Tube Holder
None Shown	P-17093	Fil Hd Screw
None Shown	P-17132	Torsion Spring
None Shown	P-17059	Screw
None Shown	P-17058	Bushing
None Shown	P-17068	Torsion Spring
None Shown	P 16997	Float Cover Gasket

NOTE Gas inlet at top of float chamber and has external float needle valve seat

NOTE Gas Level ⅝" at 3 lbs pressure

NOTE Pump Capacity 13 CC per 10 strokes (Min pump travel)

NOTE Pump Travel Setting Minimum

INDIANA 1932-33 MODEL "95" (44171)

3¾"x4⅛'—6 Cylinder

A-16592 E-2 Carburetor (Old Style) (Code No 30-2)

Std Part No	Special Part No Used on Above Model Truck	
P-15477	P-15477	No 56 Idle Air Bleed
P-16717	P-16716	Throttle Valve Screws
P-16952	P-17882	Throttle Valve Body, No 58 Idle Hole
P-17004	P-17004	059 Main Metering Jet
P-17020	P-17020	No 65 Pump Discharge Nozzle
P-17022	P-17024	Pump Rod
P-17041	P-17065	Choke Stem (Complete)
P-17046	P-17047	Pump Lever (Thro)
P-17048	P-17053	Choke Lever (Complete)
P-17049	P-17877	Throttle Lever and Stem
P-17303	P-17823	Float Chamber Cover
P-17578	P-17010	Choke Valve (Complete)
None Shown	P-16997	Float Chamber Cover Gasket
None Shown	P-17825	Float Chamber Cover Vent
None Shown	P-17067	Choke Tube Holder (Complete)
None Shown	P-17093	Choke Tube Holder Fill Hd Screw
None Shown	P-17132	Choke Valve Return Spring
None Shown	P-17059	Choke Lever Bushing Screw
None Shown	P 17058	Choke Lever Bushing
None Shown	P-17068	Choke Lever Return Spring

NOTE Gas inlet on bottom of float chamber and has submerged float needle valve and seat

NOTE Pump Capacity 13 CC per 10 strokes (Min pump travel)

NOTE Pump Travel Setting Minimum

REPLACEMENT EQUIPMENT

PARTS AND SETTINGS EXCEPTIONS MODELS EC-2 STANDARD CARBURETOR

(Passenger Cars and Trucks)

AUBURN 1932 MODEL '12-160"

3⅛' x 4¼"—12 Cylinders
2 Carburetors Per Engine
P-4640 EX 2 Carburetor (Right) (Code No 17-19)
(New Style)

Same as A 16242 Auburn 12 with Following Exceptions

P-17486	Float
P-18125	Float Fulcrum Screw
P-18126	No 70 Pump Nozzle
P-18130	Main Jet Plug
P-18144	Check Valve
P-18149	By-Pass Jet (4 No 56)
P-18913	Float Needle Valve and Seat
P-18982	Main Body with 1 3/32 Venturi and No 70 H S Bleeder

NOTE Gas Inlet at Top of Float Chamber and Has External Float Needle Valve and Seat

AUBURN 1932 MODEL "12-160"

3⅛" x 4¼"—12 Cyylinders
2 Carburetors Per Engine
J 4639 EX 2 Carburetor (Left) (Code No 17-19)
(New Style)

Same as A-16232 Auburn with Following Exceptions

P-17486	Float
P-18125	Float Fulcrum Screw
P-18126	No 70 Pump Nozzle
P-18130	Main Jet Plug
P-18144	Check Valve
P-18149	By-Pass Jet (4 No 56)
P-18913	Float Needle Valve and Seat
P-18982	Main Body with 1 3/32 Venturi and No 70 High Speed Bleeder

NOTE Gas Inlet at Top of Float Chamber and Has External Float Needle Valve and Seat

CHEVROLET, 1932 PKG EQUIPT

$3\frac{5}{16}$"x3¾ 6 Cyl.
A-15402 EX-2 Carburetor (Code No 14-1)

Std Part No	Special Parts	Used on Above Model Car
P-6454	P-6454	20° Thro Valve
P-15477	P-15477	No 48 Idle Air Bleed
P-16717	P-16716	Throttle Valve Screws
P-16952	P-17175	Thro Valve Body with No 58 Idle Holes
P-16972	P-16972	Main Body with 1 3/32 Venturi No 70 H S Bleeder
P-17004	P-17004	054 Meter Jet
P-17020	P-17020	No 66 Pump Disch Jet
P-17022	P-17161	Pump Rod
P-17041	P-17065	Stem and Stop
P-17048	P-17053	A H Lever
P-17049	P-17172	Thro Stem
	P-13098	Thro Lever with Screw
	P-14481	Thro Stop
P-17578	P-17010	Air Horn Valve
None Shown	P-17058	Bushing
None Shown	P-17059	Screw
None Shown	P-17068	Torsion Spring
None Shown	P-17391	Tube Holder
None Shown	P-17093	Fil Hd Screw
None Shown	P-17132	Torsion Spring
None Shown	P-16997	Float Cover Gasket

NOTE Pump Capacity 15 to 17 CC per 10 strokes (Max pump travel)

EQUIPMENT

P-16465 Gaskets—P-7170 Cotter Pin

ESSEX 1932-33 MODEL "TERRAPLANE"

$2\frac{15}{16}$"x4¾'—6 Cylinder Engine
J-4324 EX-2 Carburetor and Equipment (Code No 21-1)

Std Part No	Special Part No	Used on Above Model Cars
P-16972	P-16972	Main Body 1 3/32 Venturi No 65 H S Bleeder
P-17005	P-18226	No 28-36 Main Discharge Jet
P-17004	P-17004	053" Main Metering Jet
P-15477	P-15477	No 52 Idle Air Bleeder
P-17020	P-17020	No 72 Pump Discharge Jet
P-17578	P-17010	Choke Valve
P-17041	P-17065	Choke Stem and Stop
P-17048	P-17053	Choke Lever
P-17049	P-20444	Throttle Lever and Stem
P-16952	P-17175	Throttle Valve Body No 56-58 Idle Holes
None Shown	P-16067	Choke Tube Holder

EQUIPMENT

P-4752 Flange Gasket

FORD, 1932-33 V-8 PKG EQUIPT.

$3\frac{1}{16}$'x3¾" 8 Cyl.
A-16822 EX-2 Carburetor

Std Part No	Special Parts	Used on Above Model Car
P-6202	P-21053	Drive Plug
P-6454	P-6454	20° Valve
P-15477	P-15477	No 48 Idle Air Bleed
P-16752	P-17175	Thro Valve Body with No 58 Idle Holes
P-16972	P-17218	Main Body with $1\frac{5}{32}$ V No 70 H S Bleeder
P-17004	P-17004	057 Meter Jet*
P-17022	P-17161	Pump Rod
P 17041	P-17897	Air Horn Stem and Stop
P-17048	P-17053	A H Lever with Wire Con
P-17049	P 17900	Thro Lever with Screw
	P 17172	Thro Stem
	P 14481	Thro Stop
P-17578	P-17010	Air Horn Valve
None Shown	P-3292	Pipe Plugs
None Shown	P-17898	Bushings
None Shown	P-13150	Ball Connector
None Shown	P-3157	Lock Washer
None Shown	P-17058	Bushings
None Shown	P-17059	Screw
None Shown	P-17068	Torsion Springs
None Shown	P-17067	Tube Holder
None Shown	P-17894	Screw
None Shown	P-17132	Torsion Springs
None Shown	P-12008	Bushings (Under Tube Holder)
None Shown	P-16997	Float Cover Gasket

NOTE Pump Capacity 12 to 16 CC per 10 strokes (Max pump travel)

EQUIPMENT

P-17896 Air Cleaner Adapter Bushings—P-17885 Choke Control—P-4752 Gaskets—P-18859 Loose Lever—P-18860 Clip (P-17004 054 Metering Jet to be used on 1933 model (V-8) only)

NASH M 1932 MODEL "1060"

3¼" x 4⅜"—6 Cylinder
J-4625 E 2 Carburetor
(New Style)

Same as A-16322 with the Following Exceptions

P-16978	Main Jet Plug
P-17486	Float
P-18125	Float Fulcrum Screw
P-18126	No 70 Pump Nozzle
P-18144	Check Valve
P-18149	By-Pass Jet (4 No 56)
P-18913	Fl Needle Valve and Seat
P-18982	Main Body with 1 3/32 Venturi and No 70 High Speed Bleeder

NOTE Gas Inlet at Top of Float Chamber and Has External Float Needle Valve Seat

OLDSMOBILE 1931 'F-31' PKG EQUIPMENT

$3\frac{3}{16}$ x4⅛"—6 Cylinder
A-16392 EC-2 Carburetor
Parts and Settings Same as Standard

EQUIPMENT

A-16400 Automatic Choke—P-17300 Intake and Exhaust Manifold—P-17299 Gasket Carburetor—P-17298 Gasket—P-17297 Choke Release Rod—P-17296 Carburetor Throttle Rod—P-17286 Auto Choke Rod—P-15554 Fill Hd Screw—P-3157 Lock Washer—P-16835 Gasket (Auto Choke—P-17314 Stud—P-5364 Lock Washer—P-5558 Hex Nut—P-4 Cotter Pin—P-7170 Cotter Pin—P-17317 Pipe Plug

PIERCE ARROW 1932 MODEL "53"

3¼" x 4"—12 Cylinders
2 Carburetors Per Engine
J-4636 E-2 Carburetor (Right) (Code No 18-19)
(New Style)

Same as A 16012 Pierce Arrow with Following Exceptions:

P-17486	Float
P-18125	Float Fulcrum Screw
P-18126	No 70 Pump Nozzle
P-18130	Main Jet Plug
P-18144	Check Valve
P-18149	By Pass Jet 4 No 56)
P-18913	Float Needle Valve and Seat
P-21952	Main Body with 1 3/32 Venturi and No 70 H S Bleeder

NOTE Gas Inlet at Top of Float Chamber and Has External Float Needle Valve Seat

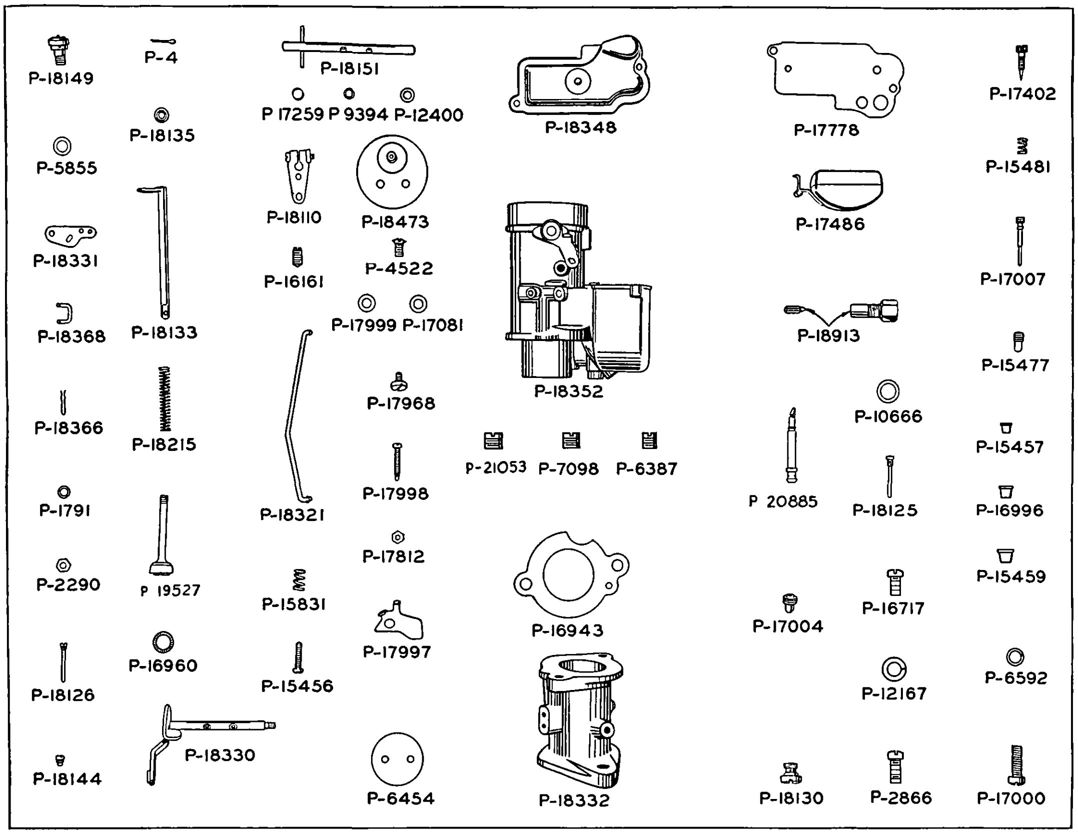
PIERCE ARROW 1932 MODEL "53'

3¼" x 4"—12 Cylinder
2 Carburetors Per Engine
J-4637 E-2 Carburetor (Left) (Code No 18-20)
(New Style)

Same as A-16092 Pierce Arrow with Following Exceptions

P-17486	Float
P-18125	Float Fulcrum Screw
P 18126	No 70 Plum Nozzle
P-18130	Main Jet Plug
P-18144	Check Valve
P-18149	By-Pass Jet (4-No 56)
P-18913	Fl Needle Valve and Seat
P-21952	Main Body with 1 3/32' Venutri and No 70 H S Bleeder

NOTE Gas Inlet at Top of Float Chamber and Has External Float Needle Valve Seat



EC-22

N . A-17232

1¼" CARB SAE

Notes and References:
Car models having this carburetor with parts exceptions therefor are shown on back of this page

‡Indicates Sub assembly part

PARTS LISTS STROMBERG MODEL "EC-22" CARBURETOR (AS USED ON OLDSMOBILE 1933, F-33)

Part No	Name	
P 4	Pump Piston Stem Nut Cotter Pin	
P 4	Pump Rod Cotter Pin	
P-1791	Pump Lever Nut Lockwasher	
P 2290	Pump Lever Nut	
P-2866	Float Chamber Cover Attach Screw	
P-3881	Air Horn Stem Collar Pin	
P 4522	Choke Valve Attaching Screws	
P 6387	Idle Disch Plug (No 10 32)	
*P-6454	Throttle Valve	(VAR)
P 6592	Main Body Attach Screws Lockwasher	
P 6855	By-Pass Jet Gasket	
P-7098	Pump Disch Channel Plug	
P-7098	Pump Check Valve Channel Plug	
P-9394	Fast Idle Rod Washer	
P-10666	Main Metering Jet Plug Gasket	
P-10666	Float Needle Valve Seat Gasket	
P-12167	Float Chamber Cover Attach Screw Lockwasher	
P-12400	Choke Stem Washer	
P-15456	Throttle Stop Screw	
P-15457	Idle Air Bleed Channel Plug	
P-15459	Idle Disch Plug (¼ in)	
*P-15477	Idle Air Bleed	(VAR)
P-15481	Idle Needle Valve Spring	
P-15831	Throttle Stop Screw Spring	
P-16161	Choke Stem Collar Set Screw	
P 16717	Throttle Valve Screws	
P 16943	Main Body Gasket	
*P-16952	Thro Valve Body (for Symbol No 401739)	(VAR)
P-16960	Pump Piston Spring	
P-16996	Idle Air Bleed Channel Plug	
P-17000	Main Body Attach Screws	
*P-17004	Main Metering Jet	(VAR)
P-17007	Idle Tube	
P 17081	Choke Stem Collar	
P 17259	Choke Lever Bushing	
P-17402	Idle Needle Valve	

Part No	Name	
P-17486	Float with Lever (Complete)	
P-17778	Float Chamber Cover Gasket	
P-17812	Fast Idle Rod Set Screw Nut	
P-17968	Fast Idle Rod Lever Fulcrum Screw	
P-17997	Fast Idle Rod Lever	
P-17998	Fast Idle Rod Set Screw	
P-17999	Fast Idle Rod Lever Fulcrum Screw Washer	
P-18110	Choke Lever (Complete)	
‡P-18300	Choke Lever Clamp Screw	
‡P-18299	Choke Lever Clamp Screw Nut	
P-18125	Float Fulcrum Screw	
*P-18126	Pump Discharge Jet	(VAR.)
P-18130	Main Metering Jet Plug	
P-18133	Pump Rod	
P 18135	Pump Piston Stem Nut	
P-18144	Pump Check Valve	
P-18149	By-Pass Jet	
P-18151	Choke Stem with Pin	
‡P-18102	Choke Stem Pin	
P-18215	Pump Piston Link Spring	
P 18321	Fast Idle Rod	
P-18330	Throttle Lever and Stem (Complete)	
P-18331	Pump Lever	
*P-18332	Thro Valve Body (for Symbol No 401740)	(VAR)
P-18348	Float Chamber Cover	
*P-18352	Main Body	(VAR)
‡P-17995	Fast Idle Adj Lever	
‡P-17996	Fast Idle Adj Lever Bushing	
P-18366	Pump Piston Link Cotter Pin	
P-18368	Pump Piston Link	
P-18432	Fast Idle Rod Anti Rattle Spring	
P-18473	Choke Valve (Complete)	
P-18913	Float Needle Valve and Seat	
P-19527	Pump Piston and Stem (Complete)	
P 20885	Main Discharge Jet	
P-21053	Pump Disch Nozzle Channel Plug	

J-4362-G EC-22 Complete Gasket Set

*NOTE On parts marked (VAR) size must be specified when ordering

STANDARD SPECIFICATION

OLDSMOBILE "F-33" 1933 (401740)

3⅜"x4⅛"—6 Cylinder

No A-17232 EC-22 Carburetor (Code No. 5-12)

P-6454	Throttle Valve 18½°
P-15477	Idle Air Bleeder No 54
P-17004	Metering Jet 057"
P-17007	Idle Tube, No 70 Feed Hole
P-18126	No 70 Pump Nozzle
P-18149	By-Pass Jet (4-No 56 Holes)
P-20885	Main Discharge Jet No 32
P-18352	Main Body 1 5/32" Venturi, No 70 H S Bleeder
P-18332	Throttle Valve Body with No 56-58 Idle Hole

STANDARD SETTINGS FOR EC-22 CARBURETORS

Throttle Valve Location Upper lip of throttle valve to be 012 plus or minus 004 below lower edge of upper idle hole

Pump Capacity 19-21 CC per 10 strokes

Pump Travel Setting Maximum

Economizer Adjust the pump piston stem nut until piston rests on seat of by-pass jet less over travel with throttle valve cracked open with 7/16" drill (Max pump travel—end hole in pump lever)

Gas Level—9/16" below top face of float chamber at 3 lbs pressure

Slow Idle Set Screw 1 turn from closed throttle position

Fast Idle Setting After slow idle is set, put a No 55 drill between thro stop set screw and lug on lever and set fast idle set screw accordingly

REPLACEMENT EQUIPMENTS

PARTS AND SETTINGS EXCEPTIONS MODEL EC-22 STANDARD CARBURETOR

OLDSMOBILE, 1931, F-31 PKG. EQUIPT

3 3/16"x4⅛" 6 Cyl

A-17722 EC-22 Pkg. Eqt (Code No 5-18)

Specifications Same as Standard

EQUIPMENT

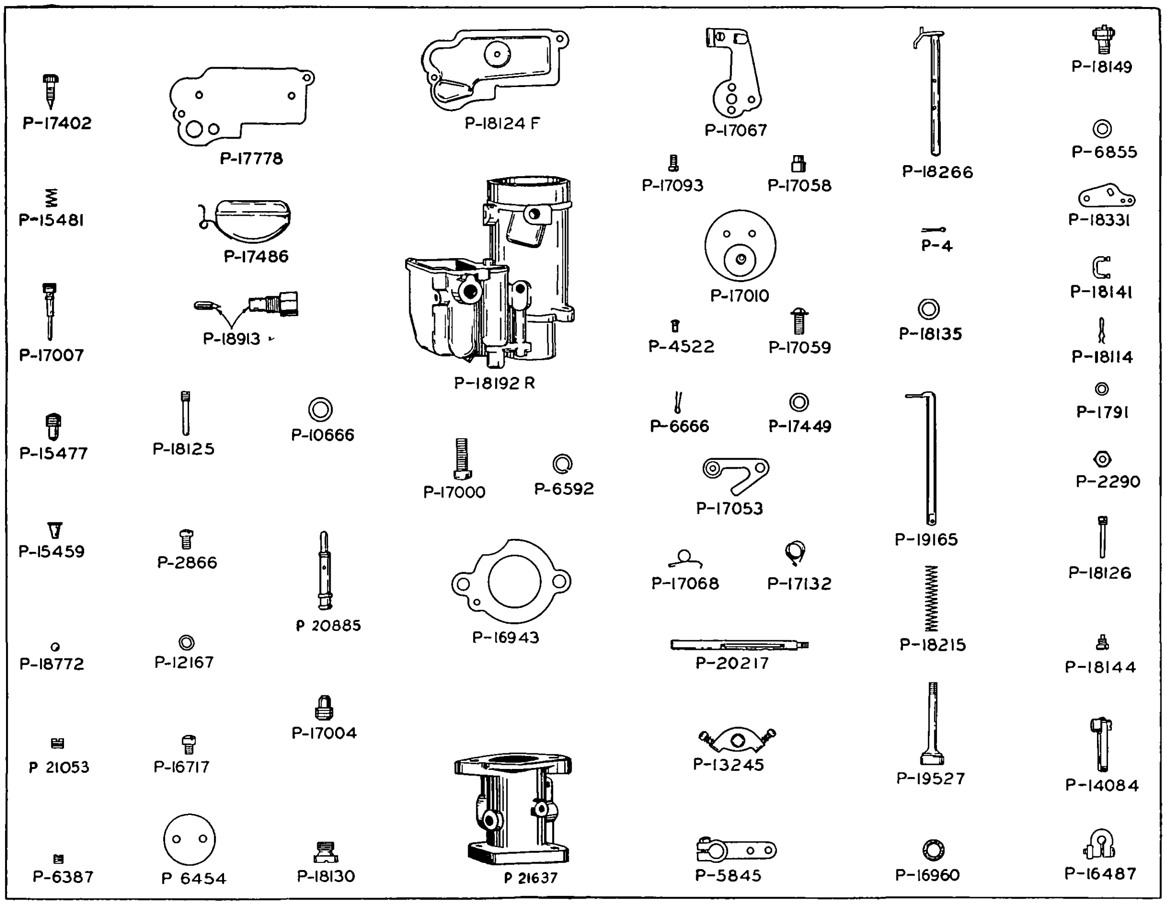
A-17220 Auto Choke—P-17300 Manifold—P-17299 Gasket—P-17298 Gasket—P-16835 Gasket—P-18290 Choke Rod—P-19380 Thro Rod—P-15554 Fil Hd Screw—P-3157 Lock Washer—P-17314 Stud—P-5364 Lock Washer—P-5558 Hex Nuts—P-7170 Cotter Pin—P-17317 Pipe Plug—P-6668 Lock Washer—P-10750 Hex Nuts

OLDSMOBILE 1932 MODEL ' F-32"

3¼" x 4⅛"—6 Cylinders

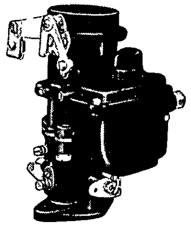
J-4613 EC-22 Carburetor (Code No. 5-22)

Std Part No.	Special Parts Used on Above Model Car	
P-15477	P-15477	No 56 Idle Air Bleeder
P-17004	P-17004	056" Metering Jet
P-18110	P-17048	Choke Lever
P-18126	P-18126	No 64 Pump Nozzle
P-20885	P-17005	No 28 Main Discharge Jet



EX-22
N . A-17392
1¼" CARB SAE

EX-32
N . A-17703
1½" CARB SAE



Notes and References:

Parts for EX-22 illustrated, corresponding EX-32 parts shown in listing below

Car models having this carburetor with parts exceptions therefor are shown on back of this page

‡Indicates Sub assembly part.

†These parts not illustrated

PARTS LISTS STROMBERG MODELS EX-22 AND EX-32 STANDARD CARBURETORS

EX-22 Part No	EX-32 Part No	Name
P-4	P-4	Pump Piston Stem Nut Cotter Pin
P-4	P-4	Pump Rod Cotter Pin
P-1791	P-1791	Pump Lever Nut Lockwasher
P-2290	P-2290	Pump Lever Nut
P-2866	P-2866	Float Chamber Cover Attach Screw
†P-3292	P-3292	Pipe Plug
P-4522	P-4522	Choke Valve Attaching Screws
P-5845	P-5856	Throttle Lever
‡P-3199	‡P-3199	Throttle Lever Clamp Screw
P-6387	P-6387	Idle Disch Plug (No 10-32)
*P-6454	P-5436	Throttle Valve (VAR.)
P-6592	P-8838	Main Body Attach Screws Lkwshr
P-6666	P-6666	Choke Stem Washer Cotter Pin
P-6855	P-6855	By Pass Jet Gasket
P-10666	P-10666	Float Needle Valve Seat Gasket
P-10666	P-10666	Main Metering Jet Plug Gasket
P-12167	P-12167	Fl Chamber Cov Att Scr Lkwshr
P-13245	P-14481	Throttle Stop
‡P-2924	‡P-2924	Throttle Stop Screw
‡P-15301	‡P-15301	Throttle Stop Screw Spring
P-14084	P-14677	Throttle Loose Lever
‡P-9270	‡P-9647	Loose Lever Wire Conn Screw
P-15459	P-15459	Idle Disch Drive Plug (¼")
*P-15477	P-15477	Idle Air Bleed (VAR)
P-15481	P-15481	Idle Needle Valve Spring
P-16487	P-17287	Loose Lever Stop
‡P-9025	‡P-9025	Loose Lever Stop Clamp Screw
‡P-4517	‡P-4517	Loose Lever Stop Clamp Nut
P-16717	P-16716	Throttle Valve Screws
P-16943	P-17557	Main Body Gasket
P-17000	P-17000	Main Body Attach Screws
*P-17004	P-17004	Main Metering Jet (VAR)
P-17007	P-17007	Idle Tube
P-17010	P-17578	Choke Valve (Comp)
P-17053	P-17053	Choke Lever (Comp)
‡P-12867	‡P-12867	Choke Lever Wire Clamp Screw
P-17058	P-17058	Choke Lever Bushing
P-17059	P-17059	Choke Lever Bushing Screw
P-17067	P-17067	Choke Tube Holder (Comp)
‡P-11561	‡P-11561	Choke Tube Holder Clamp
‡P-12868	‡P-12868	Choke Tube Holder Clamp Screw
‡P-8806	‡P-8806	Choke Tube Holder Clamp Scr Nut
P-17068	P-17068	Choke Valve Return Spring
P-17093	P-17093	Choke Tube Hold Attach Screws
P-17132	P-17132	Choke Lever Return Spring
P-17402	P-17402	Idle Needle Valve
P-17449	P-17449	Choke Stem Washer
P-17486	P-17486	Float with Lever (Comp)
P-17778	P-17778	Float Chamber Cover Gasket
P-18114	P-18114	Pump Piston Link Cotter Pin
P-18124-F	P-18124-F	Float Chamber Cover
P-18125	P-18125	Float Fulcrum Screw
*P-18126	P-18126	Pump Discharge Jet (VAR)
P-18130	P-18130	Main Metering Jet Plug
P-18135	P-18135	Pump Piston Stem Nut
P-18141	P-18141	Pump Piston Link
P-18144	P-18144	Pump Check Valve
P-18149	P-18149	By Pass Jet
*P-18192	P-17893-R	Main Body (VAR.)
P-18215	P-18215	Pump Piston Link Spring
P-18266	P-18266	Choke Stem and Stop
P-18331	P-18331	Pump Lever
P-18772	P-18772	Pump Check Valve Channel Lead Ball
P-18772	P-18772	Pump Disch Channel Lead Ball
P-18772	P-18772	Idle Air Bleed Channel Lead Ball
P-18772	P-18772	Idle Air Bleed Channel Lead Ball
P-18913	P-18913	Float Needle Valve and Seat
P-19165	P-19165	Pump Rod
P-19527	P-19527	Pump Piston and Stem (Comp)
‡P-16960	‡P-16960	Piston Expansion Spring
P-20217	P-20442	Throttle Lever Stem
P 20885	P-19702	Main Discharge Jet
P-21053	P-21053	Pump Disch Nozzle Channel Plug
*P-21637	P-21638	Throttle Valve Body (VAR)

J-4362-G EX-22 Complete Gasket Set
J-4364-G EX-32 Complete Gasket Set

*NOTE On parts marked (VAR) size must be specified when ordering

STANDARD SPECIFICATIONS

A-17392, EX-22 Carburetor (Code No 1-16)

P-6454	18½° Throttle Valve
P-15477	No 54 Idle Air Bleeder
P-17004	055 Main Metering Jet
P-17007	Idle Tube No 70 Feed Hole
P-18126	No 68 Pump Discharge Nozzle
P-18149	By-Pass Jet (4 No 56)
P-18192	Main Body 1 5/32' Venturi, No 70 High Speed Bleeder
P-20885	No 32 Main Discharge Jet
P-21637	Throttle Valve Body, No 56-58 Idle Holes, No 52 Vac Spark Hole (Flush)

A-17703 EX-32 Carburetor (Code No. 1-18)

P-5436	20° Throttle Valve
P-15477	No 54 Idle Air Bleeder
P-17004	056' Main Metering Jet
P-17007	Idle Tube No 70 Feed Hole
P-17893-R	Main Body, 1 3/16" Venturi, No 70 High Speed Bleeder
P-18126	No 70 Pump Discharge Nozzle
P-18149	By-Pass Jet (4-No 56)
P-19702	No 28-32 Main Discharge Jet
P-21638	Throttle Valve Body, No 56-58 Idle Holes

STANDARD SETTINGS FOR EX-22-32 CARBURETORS

Thro Valve Location Upper lip of Thro Valve to be 012 plus or minus 004 below lower edge of upper idle hole

Pump Capacity 19 to 21 cc per 10 strokes (Maximum Pump Travel)

Economizer Setting Adjust pump piston stem nut until piston rests on seat of By-Pass Jet (Less over travel) with Thro Valve cracked open with (EX-22 ⅜' drill and EX-32 27/64' drill) with maximum pump travel (End hole in pump lever)

Pump Travel Setting Maximum

Fuel Level EX 22—EX-32—⅝' below top face float chamber at 3 lbs pressure

EX-22, EX-32 UNIVERSAL CARBURETORS (With Stem Extended Both Sides)

(TO BE USED FOR RESALE)

Parts Exceptions Models EX-22, EX-32 Standard Carburetors

A-18152 EX-22 Carburetors (Code No 1-43)

Std Part No	Special Parts Used on Above Model Carburetor	
P-1791 P-2290 P-20217	P-21191	Thro Stem Pump Lever and Extension Assy
P-5845	P-21184	Throttle Lever (Brass)
P-13245	P-8234	Throttle Stop
P-17004	P-20270	Adjustable Metering Jet Assem
None Shown	P-19720	Throttle Stop Pin
None Shown	P-4752	Flange Gasket

NOTE Vac Spark Hole Location Lower edge of hole to be flush with upper lip of Thro Valve

A 18153 EX-32 Carburetors (Code No 1 44)

Std Part No	Special Parts Used on Above Model Carburetor	
P-1791 P-2290 P-20442	P 21192	Thro Stem Pump Lever and Extension Assy
P-5856	P-21182	Thro Lever
P-14481	P-21177	Thro Stop
P-17004	P-20270	Adjustable Metering Jet Assy
None Shown	P-17187	Thro Stop Pin
None Shown	P-4753	Flange Gasket

SPECIFICATIONS OF STANDARD EQUIPPED PASSENGER CARS
PARTS AND SETTINGS EXCEPTIONS MODELS EX-22, EX-32 STANDARD CARBURETORS

AUBURN 1933 MODEL "8-105" (J-10105)

3"x4¼"—8-Cylinder

A-17413 EX-32 Carburetor (Code No. 17-7)

Std Part No.	Special Part	No. Used on Above Model Car
P-4	P-7170	Pump Cotter Pin
P-5856 P-20442 P-14481	P-18514	Throttle Lever and Stem
P-8838	P-6592	Lockwashers
P-15477	P-15477	No 50 Idle Air Bleed
P-17004	P-17004	060' Main Metering Jet
P-17578	P-18277	Choke Valve
P-17893-R	P-17893	Main Body, 1$\frac{3}{16}$" Venturi, No 70 H S Bleed
P-18215	P-18431	Pump Spring
P-18331	P-18358	Pump Lever
P-19702	P-18548	No 28 Main Discharge Jet
P-21638	P-18515	Thro Valve Body, No 56-58 Idle Hole
None Shown	P-15456	Throttle Stop Screw
None Shown	P-15831	Throttle Stop Screw Spring
None Shown	P-15804	Flange Gasket

NOTE Fuel Level $\frac{9}{16}$".

AUBURN 1934 MODEL "8-50X" (J-10163)

3$\frac{1}{16}$"x4¾"—8-Cylinder Engine

A-17583 EX-32 Carburetor (Code No 17-2)

Std Part No.	Special Part	No. Used on Above Model Car
P-5856 P-20442 P-14481	P-19755	Throttle Lever and Stem
P-8838	P-6592	Lockwashers
P-15477	P-15477	No 50 Idle Air Bleed
P-17004	P-17004	057" Main Metering Jet
P-17578	P-18765	Choke Valve
P-18126	P-18126	No 68 Pump Discharge Nozzle
P-18266	P-18314	Choke Stem and Stop
P-19702	P-18548	No 28 Main Discharge Jet
P-21638	P-17256	Thro Valve Body, No 56-58 Idle Holes
None Shown	P-15456	Throttle Stop Screw
None Shown	P-15831	Throttle Stop Screw Spring
None Shown	P-15804	Flange Gasket

AUBURN 1935-36 "SUPER CHARGED" (J-10342)

3$\frac{1}{16}$"x4¾ —8-Cylinder Engine

A-17753 EX-32 Carburetor (Code No. 17-9A)

Std Part No.	Special Part	No Used on Above Model Car
P-5856 P-20442 P-14481	P-19755	Throttle Lever and Stem
P-8838	P-6592	Main Body Attaching Screw Lockwasher
P-15477	P-15477	No 56 Idle Air Bleeder
P-17004	P-17004	082 Main Metering Jet (A)
P-17007	P-17228	Idle Tube No 68 Feed Hole
P-17578	P-18765	Choke Valve
P-17893-R	P-17893-T	Main Body 1⅜' Venturi, No 70 High Speed Bleeder
P-18126	P-18126	No 66 Pump Discharge Jet
P-18266	P-18314	Choke Stem and Stop
P-19702	P-17167	No 28 Main Discharge Jet
P-21638	P-17256	Thro Valve Body, No 56-58 Idle Holes
None Shown	P-15456	Throttle Stop Screw
None Shown	P-15831	Throttle Stop Screw Spring
None Shown	P-15804	Flange Gasket

AUBURN 1935-36 MODEL "653" (J-10337)

3$\frac{1}{16}$"x4¾"—6-Cylinder LYC Engine

A-18052 EX-22 Carburetor (Fast Idle) (Code No 17-3)

Std Part No	Special Part	No Used on Above Model Car
P-6592	P-8838	Lockwasher
P-5845	P-20997	Throttle Lever
P-17004	P-17004	057 Main Metering Jet
P-17007	P-20821	Idle Tube with No 72 Feed Hole and No 52 Idle Air Bleeder
P-18126	P-18126	No 70 Pump Disch Nozzle
P-18192	P-29842	Main Body 1 3/32" Venturi 70 H S Bleeder
P-18266	P-19378	Choke Stem and Stop
P-18331	P-18358	Pump Lever
P-20217 P-13245	P-20835	Throttle Stem and Stop
P-20885	P-20638	No 32 Main Discharge Jet
P-21637	P-19371	Thro Valve Body 56-58 Idle Holes
J-4362-G	J-4533-G	Complete Gasket Set
None Shown	P-20630	Main Discharge Jet Lead Gasket
None Shown	P-14763	Choke Stem Block
None Shown	P-19376	Extra Choke Lever
None Shown	P-20833	Throttle Cracking Rod
Std Part No.	Special Part	Used on Above Model Car
None Shown	P-19369	Throttle Cracking Lever
None Shown	P-12400	Throttle Cracking Lever Washer
None Shown	P-7170	Cotter Pin
None Shown	P-15456	Throttle Stop Screw
None Shown	P-15831	Throttle Stop Screw Spring
None Shown	P-21338	Fast Idle Washer Cotter Pin

NOTE Pump Capacity 17 to 19 CC per 10 strokes (Max Pump Travel)

NOTE 1936 Model Cars Are Using

P-22039-T	Main Body in Place of P-20842-T
P-22042	Idle Tube in Place of P-20821.
P-15477	No 54 Idle Air Bleeder (Added Part)

This Carburetor is using an Idle Air Bleeder in the Main Body in Place of in Idle Tube

CHRYSLER 1933 MODEL "CT" (603025)

3¼"x4⅛" 8-Cylinder Engine

A-17153 EX-32 Carburetor (Code No 4-9)

Std Part No	Special Part	No. Used on Above Model Car
P-5856 P-20442 P-14481	P-18701	Throttle Stop and Stem
P-8838	P-6592	Lockwasher
P-17004	P-17004	057 Main Metering Jet
P-17578	P-18277	Choke Valve
P-18215	P-18223 P18221	(Upper) Pump Spring (Lower) Pump Spring
P-18266	P-18314	Choke Stem and Stop
P-18331	P-18145	Pump Lever
P-18913	P-18916	Float Needle Valve and Seat Assy
P-19165	P-18133	Pump Rod
P-19527	P-18225	Pump Piston and Stem
P-19702	P-18548	No 28 Main Discharge Jet
P-21638	P-18598	Thro Valve Body No 56-58 Idle Hole
None Shown	P-4735	Pump Spring Washer
None Shown	P-15456	Throttle Stop Screw
None Shown	P-15831	Throttle Stop Screw Spring

NOTE Pump Capacity 17 to 19 CC (Max pump travel) per 10 strokes

CHRYSLER 1933 MODEL "CO" (603516)

3¼" x 4½"—6-Cylinder Engine

A-17163 EX-32 Carburetor (Code No. 4-10)

Std Part No	Special Part	No. Used on Above Model Car
P-5856 P-20442 P-14481	P-18705	Throttle Lever and Stem
P-8838	P-6592	Main Body Attaching Screw Lockwasher
P-17004	P-17004	057' Main Metering Jet
P-17578	P-18277	Choke Valve
P-18215	P-18223 P-18221	Pump Spring (Lower) Pump Spring (Upper)
P-18266	P-18314	Choke Stem and Pin
P-18331	P-18145	Pump Lever
P-18913	P-18916	Float Needle Valve and Seat Assy
P-19165	P-18133	Pump Rod
P-19702	P-18548	Main Discharge Jet No 28
P-19527	P-18225	Pump Piston and Stem
P-21638	P-18598	Thro Valve Body No 56-58 Idle Holes
None Shown	P-4735	Pump Spring Washer
None Shown	P-15456	Throttle Stop Screw
None Shown	P-15831	Throttle Stop Screw Spring

NOTE Pump Capacity 17 to 19 CC (Max pump travel) per 10 strokes

NOTE Pump Travel Maximum between Oct 1st to March 31st Minimum between Aprli 1st to Sept 30th

CHRYSLER 1933 MODEL "CQ" (316090)

3¼"x4½"—8-Cylinder Engine

A-17183 EX-32 Carburetor (Code No 4-11)

Std Part No	Special Part	No. Used on Above Model Car
P-5856 P-20442 P-14481	P-18701	Throttle Stop and Stem
P-8838	P-6592	Lockwashers
P-15477	P-15477	No 56 Idle Air Bleed
P-17004	P-17004	065" Main Metering Jet
P-17578	P-18765	Choke Valve
P-17893-R	P-17893-R	Main Body, 1$\frac{5}{16}$" Venturi, No 70 H S Bleeder
P-18913	P-19555	Float Needle Valve and Seat Assembly
P-18126	P-18126	No 68 Pump Discharge Jet
P-19165	P-18133	Pump Rod
P-19527	P-18140	Pump Piston and Stem
P-19702	P-17167	No 28 Main Discharge Jet
P-21638	P-18598	Thro Valve Body No 56-58 Idle Hole
None Shown	P-15456	Throttle Stop Screw
None Shown	P-15831	Throttle Stop Screw Spring

SPECIFICATIONS OF STANDARD EQUIPPED PASSENGER CARS

PARTS AND SETTINGS EXCEPTIONS MODELS EX-22, EX-32 STANDARD CARBURETORS (Continued)

CHRYSLER 1935-36 MODEL "C-1"—"C-9" (640707)

3¼" x 4⅞"—8 Cylinders

A-17723 EX-32 Carburetor (Fast Idle) (Code No 4-4) (A)

Std Part No	Special Part No	Used on Above Model Car
P-5856 P-20442 P-14481	P 21168	Throttle Lever and Stem (A)
P-15477	P-15477	No 56 Idle Air Bleeder
P-17000	P-19339	Fill Hd Screw (Main Body) .
P-17004	P-17004	065′ Main Metering Jet
P-17053	P-20657	Choke Lever
P-17557	P-19383	Main Body Gasket
P-17578	P-20664	Choke Valve
P-17007	P-19424	Idle Tube
P-17893-R	P-20683-T	Main Body 1$\frac{5}{16}$" Venturi, 70 H S Bleeder
P-18114	P-19374	Pump Link Cotter Pin
P-18126	P-18126	No 64 Pump Discharge Nozzle
P-18141	P-20203	Pump Link
P-18266	P-20655	Choke Stem
P-18331	P-20628	Pump Lever
P-18913	P-20887	Float Needle Valve and Seat Assembly
P-19527	P-19167	Pump Piston and Stem
P-19702	P-20877	No 28 Main Discharge Jet
P-21638	P-20645	Thro Valve Body, No 56-58 Idle Hole, No 50 Vac Spark Hole flush with Throttle Valve
J-4364-G	J-4537-G	Complete Gasket Set
None Shown	P-19384	Main Body Gasket (Insulator)
None Shown	P-15456	Throttle Stop Screw
None Shown	P-15831	Throttle Stop Screw Spring
None Shown	P-3881	Choke Stem Pin
None Shown	P-4735	Choke Stem Washer
None Shown	P-17081	Choke Stem Collar
None Shown	P-16161	Choke Stem Collar Set Screw
None Shown	P-19367	Fast Idle Rod
None Shown	P-12400	Fast Idle Rod Washer
None Shown	P-21169	Fast Idle Rod Lever Cam (A)
None Shown	P-21338	Fast Idle Cotter Pin Washer
None Shown	P-7170	Cotter Pin

CHRYSLER 1935-36 MODEL "CZ"—"C-8" (635750)

3¼" x 4⅛"—8 Cylinders

A-17863 EX-32 Carburetor (Fast Idle) (Code No 4-5)

Std Part No	Special Part No	Used on Above Model Car
P-5856 P-20442 P-14481	P-19386	Throttle Lever and Stem
P-15477	P-15477	No 56 Idle Air Bleeder
P-17000	P-19339	Main Body Fill Hd Screw
P-17004	P-17004	067 Main Metering Jet
P-17053	P-20657	Choke Lever
P-17557	P-19383	Main Body Gasket
P-17578	P-20664	Choke Valve
P-17893-R	P-20683-T	Main Body 1$\frac{5}{16}$" Venturi, 70 H S Bleeder
P-18114	P-19374	Pump Link Cotter Pin
P-18126	P-18126	No 64 Pump Discharge Nozzle
P-18141	P-20203	Pump Link
P-18266	P-20655	Choke Stem
P-18331	P-20628	Pump Lever
P-18913	P-20887	Float Needle Valve and Seat
P-19527	P-19167	Pump Piston and Stem
P-19702	P-20877	No 28 Main Discharge Jet
P-21638	P-20645	Thro Valve Body No 56-58 Idle Hole No 50 Vac Spark Hole flush with Throttle Valve
None Shown	P-19384	Main Body Gasket (Insulator)
None Shown	P-15456	Throttle Stop Screw
None Shown	P-15831	Throttle Stop Screw Spring
None Shown	P-3881	Choke Stem Pin
None Shown	P-4735	Choke Stem Washer
None Shown	P-17081	Choke Stem Collar
None Shown	P-16161	Choke Stem Collar Set Screw
None Shown	P-19367	Fast Idle Rod
None Shown	P-19369	Fast Idle Lever
None Shown	P-12400	Fast Idle Lever Washer
None Shown	P-7170	Cotter Pin
None Shown	P-21338	Fast Idle Washer Cotter Pin

DODGE 1933 MODEL "DP" (604800)

3¼"x4⅜"—6-Cylinder

A-17072 EX-22 Carburetor (Code No. 3-16)

Std Part No	Special Part No	Used on Above Model Car
P-5845 P-13245 P-20217	P-18703	Throttle Lever and Stem
P-6454	P-6454	20 Degree Throttle Valve
P-15477	P-15477	No 56 Idle Air Bleeder
P-17004	P-17004	058 Metering Jet
P-17010	P-18815	Air Horn Valve
P-18126	P-18126	No 69 Pump Discharge Nozzle
P-18192	P-18192-R	Main Body 1$\frac{5}{32}$" Venturi No 70 H S Bleeder
P-18215	P 18223 P-18221	Lower Pump Spring Upper Pump Spring
P-18266	P-18314	Choke Stem and Stop
P-18331	P-18145	Pump Lever
P-18913	P-18916	Float Needle Valve and Seat
P-19527	P-19167	Pump Piston and Stem
P-20885	P-18226	No 28-36 Main Discharge Jet
P-21637	P-18597	Thro Valve Body with No 56-58 Idle Holes
None Shown	P-4735	Pump Washer
None Shown	P-15456	Throttle Stop Screw
None Shown	P-15831	Throttle Stop Screw Spring

NOTE Fuel Level ⅝"

NOTE Pump Capacity 17 to 19 CC (Max pump travel) per 10 strokes

DODGE 1934 MODEL "DR" (620699)

3¼"x4⅜"—6-Cylinder

A-17702 EX-22 Carburetor—(Fast Idle) (Code No 3-1)

Std. Part No	Special Part No	Used on the Above Model Car
P-5845 P-20217 P-13245	P-19366	Throttle Lever and Stem
P-6454	P-6454	20 Degree Throttle Valve
P-6592	P-8838	Main Body Attach Screw Lockwasher
P-15477	P-15477	No 55 Idle Air Bleeder
P-17000	P-19339	Main Body Attach Screw
P-17004	P-17004	058 Main Metering Jet
P-17010	P-18815	Air Horn Valve
P-18114	P-19374	Pump Link Cotter Pin
P-18126	P-18126	No 66 Pump Discharge Nozzle
P-18192	P-18192R	Main Body 1-5/32′ Venturi No 70 H S Bleeder
P-18141	P-20203	Pump Link
P-18215	P-18223 P-18221	(Lower) Pump Spring (Upper) Pump Spring
P-18266	P-19378	Choke Stem and Stop
P-18331	P-20202	Pump Lever
P-18913	P-18916	Float Needle Valve and Seat
P-16943	P-19323	Main Body Gasket
P-19527	P-19167	Pump Piston and Stem
P-20885	P-18226	No 28-36 Main Discharge Jet
P-21637	P-19371	Thro Valve Body with No 56-58 Idle Holes
J-4362-G	J-4387-G	Complete Gasket Set
None Shown	P-19322	Main Body Gasket (Insulator)
None Shown	P-4735	Pump Washer
None Shown	P-15456	Thro Stop Screw
None Shown	P-15831	Thro Stop Screw Spring
None Shown	P-19376	Choke Lever
None Shown	P-14763	Choke Lever Block
None Shown	P-19367	Fast Idle Rod
None Shown	P-19369	Fast Idle Lever

NOTE Pump Capacity 12 to 14 CC (Middle Pump Adj) per 10 strokes

NOTE Pump Travel Setting Middle Adjustment

SPECIFICATIONS OF STANDARD EQUIPPED PASSENGER CARS
PARTS AND SETTINGS EXCEPTIONS MODELS EX-22, EX-32 STANDARD CARBURETORS (C ntinued)

DODGE 1935 MODEL "D U" (639141)
3¼ x4⅜"—6-Cylinder
A-17982 EX-22 Carburetor (Fast Idle) (Code No 3-2C)

Std Part No	Special Part No	Used on the Above Model Car	
P-5845 P-20217 P-13245	P-21171	Throttle Lever and Stem	(C)
P-6454	P-6454	20° Throttle Valve	
P-6592	P-8838	Lockwasher	
P-15477	P-15477	No 55 Idle Air Bleeder	
P-16943	P-19323	Main Body Gasket	
P-17000	P-19339	Main Body Fill Hd Screw	
P-17004	P-17004	058 Main Metering Jet	
P-17010	P-20663	Choke Valve (N S with No 20 Holes (A)	
P-17053	P-20653	Choke Lever	
P-17499	P-4735	Choke Stem Washer	
P-18114	P-19374	Link Cotter Pin	
P-18126	P-18126	No 65 Pump Discharge Nozzle	
P-18141	P-20203	Pump Link	
P-18192	P-20682-T	Main Body 1-5/32 Venturi No 70 H S Bleeder	
P-18215	P-20666	Pump Spring	
P-18266	P-20655	Choke Stem	
P-18331	P-20628	Pump Lever	
P-18913	P-20774	Float Needle Valve and Seat Assy	
P-19527	P-19167	Pump Piston and Stem	
P-20885	P-21337	No 28-36 Main Discharge Jet	(B)
P-21637	P-20631	Throttle Valve Body 56-58 Idle Hoels No 50 Vac Spark Hole Flush	
J 4362 G	J-4387 G	Complete Gasket Set	
None Shown	P-19322	Insulator Gasket Main Body	
None Shown	P-15456	Throttle Stop Screw	
None Shown	P-15831	Throttle Stop Screw Spring	
None Shown	P-3881	Choke Stem Pin	
None Shown	P-17081	Choke Stem Collar	
None Shown	P-16161	Choke Stem Collar Set Screw	
None Shown	P-19367	Fast Idle Rod	
None Shown	P-21169	Fast Idle Cam	(C)
None Shown	P-12400	Washer	
None Shown	P-21338	Cotter Pin (Fast Idle Rod)	

NOTE Pump Capacity 15-19 CC (Middle Pump Adj) per 10 strokes
NOTE Pump Travel Setting Middle Adjustment

GRAHAM 1934 MODEL '68" (80194)
3¼x4½—6-Cylinder
A 17752 EX-22 Carburetor (Fast Idle) (Code No 9 2)

Std. Part No	Special Part No	Used on the Above Model Car
P-5845 P-20217 P-13245	P-19761	Throttle Lever and Stem
P-6592	P-8838	M B Attach Screw Lock Washer
P-6454	P-6454	20 Degree Throttle Valve
P-17004	P-17004	061" Main Metering Jet
P-17053	P-18427	Choke Lever and Wire Connection
P-17067	P-17391	Choke Tube Holder
P-18192	P-18192-R	Main Body with 1-5/32' Venturi and No 70 H S Bleeder
P-18331	P-18358	Pump Lever
P-19527	P-19167	Pump Piston and Stem
P-18913	P-18916	Float Needle Valve and Seat (Assem)
P-20885	P-19546	No 32 Main Discharge Jet
P-21637	P-19521	Throttle Valve Body with No 56-58 Idle Holes
None Shown	P-15456	Throttle Stop Screw
None Shown	P-15831	Throttle Stop Screw Spring
None Shown	P-19708	Choke Torsion Spring
None Shown	P-18362	Throttle Cracking Rod
None Shown	P-19596	Throttle Cracking Lever
None Shown	P-17050	Throttle Cracking Lever Spring
None Shown	P-9394	Throttle Cracking Washer
None Shown	P-7170	Throttle Cracking Cotter Pin

NOTE Pump Capacity 17 to 19 CC (Maximum Pump Travel) per 10 strokes
NOTE Pump Travel Maximum between Oct 1st to March 31st Minimum between April 1st to Sept 30th
NOTE Throttle Valve to Crack Open (060) No 53 Drill when Choke Valve is Fully Closed

GRAHAM 1934 35 MODELS '69"-'75" (80954)
3¼"x4 —8-Cylinder Engine
A-17743 EX-32 Carburetor (Fast Idle) (Code No 9-3)

Std Part No	Special Part No	Used on the Above Model Car
P-5856	P-19784	Throttle Lever
P-14481 P-20442	P-19796	Throttle Stem and Stop
P-15477	P-15477	No 56 Idle Air Bleed
P-17004	P-17004	069 Main Metering Jet
P-17053	P-19787	Choke Lever
P-17068	P-19776	Choke Lever Torsion Spring
P-17578	P-18815	Choke Valve
P 17893-R	P-19803-R	Main Body, $1\frac{5}{16}$" Venturi, No 70 H S Bleed
P-18126	P-18126	No 65 Pump Discharge Nozzle
P-18215	P-18221 P-18223	(Upper) Pump Spring (Lower) Pump Spring
P-18331	P-19794	Pump Lever
P-18913	P-19869	Float Needle Valve and Seat Assy

Std Part No	Special Parts	Used on Above Model Car
P-19527	P-18140	Pump Piston and Stem
P-19702	P-19798	No 28 Main Discharge Jet
P-21638	P-19793	Throttle Valve ody No 56-58 Idle Hole, No 55 Vac Spark Hole 010 above Throttle Valve
None Shown	P-4735	Pump Spring Washer
None Shown	P-15456	Throttle Stop Screw
None Shown	P-15831	Throttle Stop Screw Spring
None Shown	P-19789	Loose Lever (Throttle Cracking)
None Shown	P-19791	Throttle Rod (Throttle Cracking)
None Shown	P-14849	Spring Washer (Loose Lever)
None Shown	P-7170	Cotter Pin

NOTE Pump Capacity 20 to 25 CC (Maximum Pump Travel) per 10 strokes
NOTE Throttle Valve to Crack Open No 52 Drill go No 48 Drill No go When Choke Valve is Fully Closed
NOTE Fuel Level $\frac{9}{16}$

GRAHAM 1935 MODEL "74"
3"x4"—6-Cylinder Engine
A-18112 EX-22 Carburetor (Code No. 9-11)

Std Part No	Special Part No	Used on the Above Model Car
P-5845 P-20217 P-13245	P-19761	Throttle Lever and Stem
P-6202	P-21053	Drive Plug
P-6592	P-8838	Main Body Attach Screw Lockwasher
P-6454	P-6454	(20°) Throttle Valve
P-15477	P-15477	No 60 Idle Air Bleeder
P-17004	P-17004	050 Main Metering Jet
P-17007	P-19874	Idle Tube No 70 Feed Hole
P-17010	P-18743	Choke Valve
P-17053	P-18427	Choke Lever
P-18114	P-19374	Pump Lever Cotter Pin
P-18141	P-20958	Pump Link
P-18192	P-20972-T	Main Body 1 1/32 Venturi No 70 High Speed Bleeder
P-18215	P-18221 P-18223	Pump Spring (Upper) Pump Spring (Lower)
P-18241	P-19546	No 32 Main Discharge Jet
P-18913	P-18916	Float Needle Valve and Seat Assy
P-18331	P-20628	Pump Lever
P-19527	P-19167	Pump Piston and Stem
P-21637	P-20971	Throttle Valve Body 56-58 Idle Holes No 50 Vac Spark Hole Flush with Throttle Valve
None Shown)	P-4735	Pump Spring Washer
None Shown	P-15456	Throttle Stop Screw
None Shown	P-15831	Throttle Stop Screw Spring
None Shown	P-18362	Throttle Cracking Rod
None Shown	P-19596	Throttle Cracking Lever
None Shown	P-17050	Throttle Cracking Spring
None Shown	P-9394	Throttle Cracking Washer
None Shown	P-7170	Throttle Cracking Rod Cotter Pin

NOTE Pump Travel Setting Middle Adjustment
NOTE Pump Capacity 22 to 24 CC (Maximum Pump Travel) per 10 strokes
NOTE Throttle Vavlve to Crack Open (073) No 49 Drill when Choke Valve is Fully Closed
NOTE Economizer Setting 11/32' Drill

HUPMOBILE MODEL "J ' AND 'D-518" 1934-35 (87511)
3½ x4¼ '—6-Cylinder Engine
A-17533 EX-32 Carburetor (Code No 19-1A)

Std Part No	Special Part No	Used on the Above Model Car	
P-5865 P-20442 P-14481	P-18705	Throttle Lever and Stem	
P-8838	P-6592	Lockwasher	
P-15477	P-15477	No 52 Idle Air Bleed	
P-17004	P-17004	066 Main Metering Jet	(A)
P-17578	P-18765	Choke Valve	
P-17893-R	P-17893-R	Main Body, $1\frac{5}{16}$' Venturi No 70 H S Bleeder	
P-18266	P-18314	Choke Stem and Stop	
P-19702	P-17167	No 28 Main Discharge Jet	(A)
P-21638	P-18598	Throttle Valve Body No 56-58 Idle Hole	
None Shown	P-15456	Throttle Stop Screw	
None Shown	P-15831	Throttle Stop Screw Spring	

HUPMOBILE 1934 35 MODEL 'W" (90148)
3½ x3⅞"—6-Cylinder Engine
A-17593 EX-32 Carburetor (Code No 19-2)

Std Part No	Special Part No	Used on the Above Model Car
P-5856 P-20442 P-14481	P-19386	Throttle Lever and Stem
P-17004	P-17004	059 Main Metering Jet
P-17578	P-18277	Choke Valve
P-18266	P-18314	Choke Stem and Stop
P-18331	P-18145	Pump Lever
P-18913	P-18916	Float Needle Valve and Seat Assy
P-19527	P-19167	Pump Piston and Stem
P-19702	P-20886	No 28 Main Discharge Jet
P-20294	P-19865	Throttle Valve Body No 56-58 Idle Holes
None Shown	P-15456	Throttle Stop Screw
None Shown	P-15831	Throttle Stop Screw Spring

SPECIFICATIONS OF STANDARD EQUIPPED PASSENGER CARS

PARTS AND SETTINGS EXCEPTIONS MODELS EX-22, EX-32 STANDARD CARBURETORS (Continued)

NASH 1933 MODEL "1120" (25630-A)

3¼"x4⅜"—6-Cylinder

A-17342 EX-22 Carburetor

Std Part No.	Special Part No	Used on the Above Model Car
P-5845 P-13245 P-20217	P-18255	Throttle Lever and Stem
P-17004	P-17004	054" Metering Jet
P-18192	P-18322	Main Body, $1\frac{5}{32}$" Venturi, No 70 H S Bleeder
P-20885	P-18241	Main Discharge Jet
P-21637	P-18242	Throttle Valve Body with No 56-58 Idle Holes
None Shown	P-15456	Throttle Stop Screw
None Shown	P-15831	Throttle Stop Screw Spring

NOTE Fuel Level $\frac{9}{16}$"

NASH 1932-'33 MODEL "1030" AND "1130" (25079-A)

3"x4¼"—8-Cylinder

A-17202 EX-22 Carbureor

Std. Part No	Special Part No	Used on the Above Model Car
P-5845 P-13245 P-20217	P-18255	Throttle Lever and Stem
P-15477	P-15477	No 53 Idle Air Bleeder
P-17004	P-17004	057" Metering Jet
P-18192	P-18322	Main body with $1\frac{5}{32}$" Venturi, No 70 H S Bleeder
P-18215	P-18223 P-18221	Pump Spring (Lower) Pump Spring (Upper)
P-18331	P-18145	Pump Lever
P-19527	P-19167	Pump Piston and Stem
P-21637	P-18242	Throttle Valve Body with No 56-58 Idle Holes
None Shown	P-4735	Pump Washer
None Shown	P-15456	Throttle Stop Screw
None Shown	P-15831	Throttle Stop Screw Spring

NOTE Pump Travel Maximum between Oct 1st to March 31st Minimum between April 1st to Sept 30th

NOTE Pump Capacity 17 to 19 CC (Maximum Pump Travel) per 10 strokes

NOTE Fuel Level $\frac{9}{16}$"

NASH 1934 MODEL "1220" (26458-A)

3⅜"x4⅜"—6-Cylinder Engine

A-17343 EX-32 Carburetor

Std. Part No	Special Part No.	Used on Above Model Car
P-5856 P-20442 P-14481	P-19161	Throttle Lever and Stem
P-15477	P-15477	No 50 Idle Air Bleeder
P-17004	P-17004	061' Main Metering Jet
P-17067	P-17391	Choke Tube Holder
P-17578	P-18277	Choke Valve
P-17893-R	P-17893	Main Body $1\frac{3}{16}$' Venturi, No 70 H S Bleeder
P-18126	P-18126	No 67 Pump Discharge Nozzle
P-18215	P-18223 P-18221	(Lowre) Pump Spring (Upper) Pump Spring
P-18266	P-18314	Choke Stem and Stop
P-18331	P-18145	Pump Lever
P-18913	P-18916	Float Needle Valve and Seat Assy
P-19527	P-19167	Pump Piston and Stem
P-19702	P-20885	No 32 Main Discharge Jet
P-21638	P-18373	Throttle Valve Body, No 56-58 Idle Holes
None Shown	P-4735	Pump Spring Washer
None Shown	P-15456	Throttle Stop Screw
None Shown	P-15831	Throttle Stop Screw Spring

NOTE Pump Travel Maximum between Oct 1st to March 31st Minimum between April 1st to Sept 30th

NOTE Pump Capacity 17 to 19 CC (Maximum Pump Travel) per 10 strokes

NASH 1935-36 MODEL "3520" "3620" (47603-A)

3⅜"x4⅜"—6-Cylinder

A-18063 EX-32 Carburetor

Std Part No	Spec Part No.	Used on the Above Model Car
P-5856 P-20442 P-14481	P-20867	Throttle Stem and Stop
P-15477	P-15477	No 50 Idle Air Bleeder
P-17004	P-17004	064' Main Metering Jet
P-17067	P-17391	Choke Tube Holder
P-17578	P-18277	Choke Valve
P-17893-R	P-17893	Main Body, $1\frac{3}{16}$" Venturi No 70 H S Bleeder
P-18126	P-18126	No 67 Pump Discharge Nozzle
P-18215	P-18233 P-18221	(Lower) Pump Springs (Upper) Pump Springs
P-18266	P-18314	Choke Stem and Stop
P-18331	P-18145	Pump Lever
P-18913	P-18916	Float Needle Valve and Seat Assy
P-19527	P-19167	Pump Piston and Stem
P-19702	P-20885	No 32 Main Discharge Jet
P-21638	P-18373	Throttle Valve Body No 56-58 Idle Holes
None Shown	P-4735	Pump Spring Washer
None Shown	P-15456	Throttle Stop Screw
None Shown	P-15831	Throttle Stop Screw Spring

NOTE Pump Travel Maximum between Oct 1st to March 31st Minimum April 1st to Sept 30th

NOTE Pump Capacity 17 to 19 CC (Maximum Pump Travel) per 10 strokes

NASH 1935-36 MODEL "3540"-"36-40-A" (49050-A)

3⅜"x4⅜"—6-Cylinder

A-18132 EX-22 Carburetor

Std. Part No.	Special Parts	Used on Above Model Car
P-5845 P-13245 P-20217	P-18255	Throttle Lever and Stem
P-17004	P-17004	No 057" Main Metering Jet
P-18126	P-18126	No 64 Pump Discharge Jet
P-18192	P-18322	Main Body, $1\frac{5}{32}$" Venturi, No 70 H S Bleeder
P-21637	P-21173	Thro Valve Body, No 56-58 Idle Holes
None Shown	P-15456	Throttle Stop Screw
None Shown	P-15831	Throttle Stop Screw Spring

NOTE Pump Capacity 18 to 22 CC with maximum pump travel

NOTE Economizer Setting 23/64

NOTE Pump Travel Maximum between Oct 1st to March 31st Minimum between April 1st to Sept 30th

NOTE Fuel Level ⅝"

NASH 1937 MODEL "3720" (92765)

3⅜"x4⅜"—6 Cyl Engine

A-18143 EX-32 Carburetor (Code No 8-26-A)

Std Part No	Special Part No	Used on Above Model Car
P-5856 P-14481 P-20442	P-20867	Throttle Stop and Stem Assy
P-15477	P-15477	No 44 Idle Air Bleeder
P-17004	P-17004	062 Metering Jet
P-17067	P-17391	Choke Tube Holder Assy
P-17578	P-18277	Choke Valve Assy
P-17893-R	P-17893	Main Body $1\frac{3}{16}$' Venturi No 70 H S Bleeder
P-18126	P-22926	No 61 Pump Discharge Nozzle
P-18215	P-18221 P-18223	Pump Spring (Upper) Pump Spring (Lower)
P-18266	P-18314	Choke Stem and Stop Assy
P-18331	P-18145	Pump Lever
P-18913	P-18916	Float Needle Valve and Seat
P-19527	P-19167	Pump Piston and Stem Assy
P-19702	P-19546	Main Discharge Jet No 32
P-21638	P-18373	Throttle Body No 56-58 Idle Holes
None Shown	P-4735	Pump Spring Washer
None Shown	P-15456	Idle Adj Screw
None Shown	P-15831	Idle Adj Screw Spring

NOTE Fuel Level ¾" Below Top Face of Float Chamber at Three Pounds Pressure

NOTE Pump Capacity 9 to 13 C C Fast and 13 to 17 C C Slow at Minimum Pump Adjustment

NOTE Pump Travel Setting Minimum between April 1st and Sept 30th Maximum between Oct 1st and March 31st

OLDSMOBILE 1935 MODEL "F-35" (406400)

$3\frac{5}{16}$ x4¼"—6-Cylinder

A-18022 EX-22 Carburetor (Fast Idle) (Code No 5-6A)

Std Part No	Spec Part No	Used on the Above Model Car
P-4522	P-20738	Choke Valve Screw
P-5845 P-13245 P-20217	P-21084	Throttle Lever and Stem
P-6202	P-21053	Drive Plug
P-6592	P-8838	Lockwasher
P-17004	P-17004	058' Main Metering Jet (A)
P-17007	P-20627	Idle Tube with No 68 Feed Hole and No 56 Idle Air Bleeder
P-17010	P-20724	Choke Valve
P-18126	P-18126	No 66 Pump Discharge Nozzle
P-18192	P-20722	Main Body $1\frac{5}{32}$" Venturi, 70 H S Bleeder
P-18331	P-18358	Pump Lever
P-18913	P-18916	Float Needle Valve and Seat Assembly
P-19527	P-20747	Pump Piston and Stem
P-20885	P-20748	No 28-32 Main Discharge Jet
P-21637	P-20740	Throttle Valve Body, No 56-58 Idle Holes
P-18266	P-20734	Choke Lever and Stem
J-4362-G	J-4533-G	Complete Gasket Set
None Shown	P-19864	Main Body Stud
None Shown	P-16200	Main Body Stud Nut
None Shown	P-20630	Main Discharge Lead Gasket
None Shown	P-17081	Choke Stem Collar
None Shown	P-16161	Choke Stem Collar Set Screw
None Shown	P-20846	Choke Stem Spacer
None Shown	P-20746	Fast Idle Lever
None Shown	P-20739	Fast Idle Rod
None Shown	P-19587	Fast Idle Rod Nut
None Shown	P-20745	Fast Idle Lever Fulcrum Screw
None Shown	P-20744	Fulcrum Screw Washer
None Shown	P-19568	Fast Idle Cam
None Shown	P-20883	Choke Valve Screw Lockwasher

NOTE Throttle Valve Location 018 plus or minus 004

NOTE Pump Capacity 13 to 15 CC (Min Pump Travel) per 10 strokes

NOTE Economizer Setting $\frac{7}{16}$" drill (A)

NOTE With Fast Idle Adj Screw in contact with third idle step opening of choke valve to be 695 Max 655 Min

NOTE Pump Travel Setting Minimum

SPECIFICATIONS OF STANDARD EQUIPPED PASSENGER CARS

PARTS AND SETTINGS EXCEPTIONS MODELS EX-22, EX-32 STANDARD CARBURETORS (Continued)

OLDSMOBILE 1934 MODEL "F-34" (404314)

$3\frac{5}{16}$ x$4\frac{1}{8}$"—6 Cylinder

A-17792 EX-22 Carburetor (Code No 5-3)

Std Part No	Special Part No	Used on the Above Model Car
P-5845 P-13245 P-20217	P-18158	Throttle Lever and Stem
P-6592	P-8838	Main Body Attach Screw Lockwasher
P-17004	P-17004	058' Metering Jet
P-17007	P-19773	Idle Tube No 72 Feed Hole
P-17010	P-18815	Air Horn Valve
P-18126	P-18126	No 66 Pump Discharge Nozzle
P-18192	P-18192-R	Main Body $1\frac{5}{32}$" Venturi, No 70 H S Bleeder
P-18913	P-18916	Float Needle Valve and Seat
P-19527	P-19565	Pump Piston and Stem
P-20885	P-19702	No 28-32 Main Discharge Jet
P-21637	P-19971	Throttle Valve Body with No 56 58 Idle Holes
None Shown	P-19864	Main Body Stud
None Shown	P-16200	Main Body Stud Nut
None Shown	P-15456	Throttle Stop Screw
None Shown	P-15831	Throttle Stop Screw Spring

NOTE Pump Capacity 13 to 15 CC (Max Pump Travel) per 10 strokes
NOTE Economizer Setting 27/64 drill
NOTE Throttle Valve Location 018 plus or minus 004

OLDSMOBILE 1935 MODEL "F-35" (406405)

$3\frac{5}{16}$' x$4\frac{1}{4}$"—6 Cylinder Engine

A-18092 EX-22 Carburetor (Code No 5-7)

Std Part No	Special Part No	Used on Above Model Car
P-5845 P-13245 P-20217	P-18158	Throttle Lever and Stem
P-6592	P-8898	Main Body Lockwasher
P-17004	P-17004	058 Main Metering Jet (A)
P-17007	P-20627	Idle Tube (No 68 Feed Hole) No 56 Idle Air Bleed
P-17010	P-18815	Choke Valve
P-18126	P-18126	No 66 Pump Discharge Nozzle
P-18192	P-20842-T	Main Body $1\frac{5}{32}$" Venturi No 70 High Speed Bleeder
P-18331	P-18358	Pump Lever
P-18913	P-18916	Float Needle Valve and Seat Assembly
P-19527	P-20747	Pump Piston and Stem
P-20885	P-20748	No 28-32 Main Discharge Jet
P-21637	P-19771	Throttle Valve Body No 56-58 Idle Holes
J 4362-G	J 4533-G	Complete Gasket Set
None Shown	P-19864	Main Body Stud
None Shown	P-16200	Main Body Stud Nut
None Shown	P-20630	Main Discharge Jet Lead Gasket
None Shown	P-15456	Throttle Stop Screw
None Shown	P-15831	Throttle Stop Screw Spring

NOTE Economizer Setting $\frac{7}{16}$ drill (A)
NOTE Pump Capacity 13 to 15 CC (Min Pump Travel) per 10 strokes
NOTE Throttle Valve Location 018 plus or minus 004
NOTE Pump Travel Setting Minimum

PIERCE-ARROW 1934 MODEL "1240A-1248A" (702750)

1936 MODELS "1602" AND "1603"
1935 MODELS "1245" AND "1255"
1933 MODELS "1236" AND "1242"
$3\frac{3}{8}$"x4"—12 Cylinder (1933)
$3\frac{1}{2}$"x4"—12 Cylinder (1934-36)
2 Carburetors Used
A-16013 EX-32 Carburetor (Right) Fast Idle (Code No 18-3)

Std Part No.	Special Part No	Used on the Above Model Car
P-5856 P-14481 P-20442	P-18238	Throttle Lever and Stem
P-6387	P-6387-K	Screw Plug
P-8838	P-6592	Lock Washers
P-15477	P-15477-K	No 48 Idle Air Bleeder
P 17004	P-17004	057 Main Metering Jet
P-17053	P-18553	Choke Lever with Screw
P-17402	P-17402-K	Idle Needle Valve
P-17893-R	P-18303	Main Body, $1\frac{3}{16}$ Venturi 70 H S Bleeder
P-18124-F	P-18124	Float Chamber Cover
P-18125	P-18125-K	Fulcrum Screw Float
P-18126	P-18126	No 68 Pump Discharge Jet
P-18130	P-18130-K	Main Discharge Jet Plug
P-18266	P-18151-K	Choke Stem and Pin
P-18331	P-18145	Pump Lever
P-18913	P-18913-K	Float Needle Valve and Seat Assembly
P-19702	P-17005	No 28 Main Discharge Jet
P 21638	P-18243	Throttle Valve Body No 56-58 Idle Holes
None Shown	P-17081-K	Choke Stem Collar
None Shown	P-16161-K	Choke Stem Collar Set Screw
None Shown	P-3881	Choke Stem Pin
None Shown	P-12400	Choke Stem Washer
None Shown	P-17259	Choke Lever Bushing
None Shown	P-18146	Fast Idle Rod

Std Part No	Special Part No	Used on Above Model Car
None Shown	P-18281	Fast Idle Adjusting Screw
None Shown	P-17812	Fast Idle Adjusting Screw Nut
None Shown	P-17997	Fast Idle Lever
None Shown	P-17968	Fast Idle Fulcrum Screw
None Shown	P-17999	Fast Idle Fulcrum Screw Washer
None Shown	P-9394-K	Fast Idle Rod Washer
None Shown	P-18432	Fast Idle Rod Spring

NOTE Pump Capacity 12 to 14 CC (Minimum Pump Travel) per 10 strokes
NOTE Fuel Level $\frac{9}{16}$'
NOTE Fast Idle Set Screw 1 turn beyond point of contact with Throttle Valve fully closed
NOTE Pump Travel Setting Minimum

FURNISHED WITH EACH CARBURETOR

P-18284 Thro Connecting Stem—P-17201 Thro Connecting Stem Spring

PIERCE-ARROW 1934 MODEL "1240-A AND 1248-A" (702751)

1936 MODELS "1602" AND "1603"
1935 MODELS "1245" AND '1255"
1933 MODELS '1236" AND "1242"
$3\frac{3}{8}$"x4"—12 Cylinder (1933)
$3\frac{1}{2}$"x4"—12 Cylinder (1934-36)
2 Carburetors Used
A-16093 EX-32 Carburetor (Left) Fast Idle (Code No 18-4)

Std Part No	Special Part No	Used on Above Model Car
P-5856 P-14481 P-20442	P-18236	Throttle Lever and Stem
P-6387	P-6387-K	Screw Plug
P-8838	P-6592	Lockwashers
P-15477	P-15477-K	No 48 Idle Air Bleeder
P-17004	P-17004	057 Main Metering Jet
P-17053	P-18553	Choke Lever wtih Screw
P-17402	P-17402-K	Idle Needle Valve
P-17449	P-17449-K	Choke Stem Washer
P-17893-R	P-18313	Main Body $1\frac{3}{16}$' Venturi No 70 H S Bleeder
P-18124-F	P-18124	Float Chamber Cover
P-18125	P-18125-K	Float Fulcrum Screw
P-18126	P-18126	No 68 Pump Discharge Jet
P-18130	P-18130-K	Main Discharge Jet Plug
P-18266	P-18246-K	Choke Stem and Pin
P-18913	P-18913-K	Float Needle Valve and Seat Assy
P-19702	P-17005	No 28 Main Discharge Jet
P-21638	P-18243	Thro Valve Body No 56-58 Idle Hole
None Shown	P-17081-K	Choke Stem Collar
None Shown	P-16161-K	Choke Stem Collar Set Screw
None Shown	P-4499-K	Choke Stem Pin
None Shown	P-18146	Fast Idle Rod
None Shown	P-18281	Fast Idle Adjusting Screw
None Shown	P-17812	Fast Idle Adjusting Screw Nut
None Shown	P-17997	Fast Idle Lever
None Shown	P-17968	Fast Idle Fulcrum Screw
None Shown	P-17999	Fast Idle Fulcrum Screw Washer
None Shown	P-9394-K	Fast Idle Rod Washer
None Shown	P-18432	Fast Idle Rod Spring

NOTE Pump Capacity 12 to 14 CC (Minimum Pump Travel) per 10 strokes
NOTE Fuel Level $\frac{9}{16}$
NOTE Fast Idle Set Screw 1 turn beyond point of contact with Throttle Valve fully closed
NOTE Pump Travel Setting Minimum

REO 1933 MODEL "S' FLYING CLOUD (1-SA-157)

$3\frac{3}{8}$"x5"—6-Cylinder Engine

A-17363 EX-32 Carburetor (Fast Idle) (Code No. 12-2)

Std Part No	Special Part No	Used on Above Model Car
P-5856 P-14481 P-20442	P-18430	Throttle Lever and Stem
P-8838	P-6592	Lockwashers
P-17007	P-19579	Idle Tube No 70 Feed Hole
P-17053	P-18553	Choke Lever
P-17893-R	P-18443	Main Body, $1\frac{3}{16}$' Venturi No 70 High Speed Bleeder
P-18266	P-18246	Choke Stem and Pin
P-19702	P-21683	No 28-32 Main Discharge Jet
P-21638	P-18442	Thro Valve Body No 56 58 Idle Holes
None Shown	P-12400	Choke Stem Washer
None Shown	P-15456	Throttle Stop Screw
None Shown	P-15831	Throttle Stop Screw Spring
None Shown	P-17081	Choke Stem Roller
None Shown	P-16161	Choke Stem Roller Set Screw
None Shown	P-4499	Choke Stem Pin
None Shown	P-18379	Fast Idle Rod
None Shown	P-9394	Fast Idle Rod Washer
None Shown	P-18274	Fast Idle Lever
None Shown	P-18919	Fast Idle Adjusting Screw
None Shown	P-17812	Fast Idle Adjusting Screw Nut
None Shown	P-17968	Fast Idle Fulcrum Screw
None Shown	P-17999	Fast Idle Fulcrum Screw Washer
None Shown	P-18432	Fast Idle Rod Spring

NOTE Adjust Fast Idle Screw to point of contact with No 60 Drill Throttle opening and Choke Valve fully closed

SPECIFICATIONS OF STANDARD EQUIPPED PASSENGER CARS
PARTS AND SETTINGS EXCEPTIONS MODELS EX-22, EX-32 STANDARD CARBURETORS (Continued)

REO 1933 MODEL "S-1" TRUCK AND PLEASURE CAR
3⅛x5-6 Cylinder
A-16802 EX-22 Carburetor (Code No 12-11)

Std Part No	Special Part No	Used on Above Model Car
P-5845 P-13245 P-20217	P-18946	Throttle Lever and Stem
P-15477	P-15477	No 56 Idle Air Bleeder
P-17004	P-17004	056" Metering Jet
P-18126	P-18126	No 70 Pump Discharge Nozzle
P-20885	P-17005	No 28 Main Discharge Jet
P-21637	P-18131	Thro Valve Body with No 56-58 Idle Holes
None Shown	P-15456	Throttle Stop Screw
None Shown	P-15831	Throttle Stop Screw Spring

REO 1933 MODEL "S"
3⅜"x5"—6-Cylinder Engine
A-16803 EX-32 Carburetor (Fast Idle) (Code No 12-10)

Std Part No.	Special Part No.	Used on Above Model Car
P-5856 P-14481 P-20442	P-18430	Throttle Lever and Stem
P-8838	P-6592	Lockwasher
P-15477	P-15477	No 55 Idle Air Bleed
P-17004	P-17004	059' Main Metering Jet
P-17053	P-18427	Choke Lever with Wire Connector
P-17893-R	P-17893	Main Body, 1$\frac{3}{16}$" Venturi No 70 High Speed Bleeder
P-18126	P-18126	No 69 Pump Discharge Nozzle
P-18266	P-18314	Choke Stem and Stop
P-19165	P-18133	Pump Rod
P-19527	P-18140	Pump Piston and Stem
P-19702	P-18548	No 28 Main Discharge Jet
P-21638	P-18428	Throttle Valve Body, No 56-58 Idle Holes
None Shown	P-15456	Throttle Stop Screw
None Shown	P-15831	Throttle Stop Screw Spring
None Shown	P-18355	Thro Loose Lever (Cracking Device)
None Shown	P-18362	Throttle Cracking Rod
None Shown	P-17050	Throttle Cracking Spring
None Shown	P-9394	Throttle Cracking Washer
None Shown	P-7170	Cotter Pin

NOTE Throttle valve to clock open (043) when Choke Valve is fully closed

NOTE Fuel Level $\frac{9}{16}$"

REO FLYING CLOUD 1934 "S" (1-SA-155)
3⅜"x5"—6-Cylinder Engine
A-17623 EX-32 Carburetor (Code No 12-4)

Std Part No.	Special Part No	Used on Above Model Car
P-5856 P-14481 P-20442	P-18430	Throttle Lever and Stem
P-17007	P-19579	Idle Tube No 70 Feed Hole
P-19702	P-21683	No 28-32 Main Discharge Jet
P-21638	P-18442	Throttle Valve Body, No 56-59 Idle Holes
None Shown	P-15456	Throttle Stop Screw
None Shown	P-15831	Throttle Stop Screw Spring

STEWART 1935 MODEL "58-X" (B-30621)
4⅛"x4¾ —6 Cyl Wauk 6MK Engine
F-3321 EX-32 Carburetor (Code No 28-14)

Std Part No	Special Part No	Used on Above Model Truck
P-5856 P-14481 P-20442	P-19949	Throttle Lever and Stem Assy.
P-17004	P-17004	068' Metering Jet
P-17893-R	P-17893	Main Body 1$\frac{5}{16}$ Venturi No 70 H S Bleeder
P-18126	P-18126	No 68 Pump Jet
P-19702	P-17005	Main Discharge Jet No 28
P-20294	P-18442	Throttle Body No 56 58 Idle Holes
None Shown	P-15456	Throttle Stop Screw
None Shown	P-15831	Throttle Stop Screw Spring

NOTE Pump Travel Setting —Minimum

STUDEBAKER 1933 MODEL "56" (178966)
3¼"x4⅞"—6-Cylinder
A-17012 EX-22 Carburetor (Fast Idle) (Code No 6-15)

Std Part No	Special Part No	Used on the Above Model Car
P-5845 P-13245 P-20217	P-18129	Throttle Lever and Stem
P-15477	P-15477	No 56 Idle Air Bleeder
P-15481	P-18710	Idle Needle Valve Spring
P-17004	P-17004	054" Main Metering Jet
P-17053	P-18110	Choke Lever with Screw
P-18126	P-18126	No 70 Pump Discharge Nozzle
P-18192	P-18152	Main Body, 1-3/32' Venturi, No 70 H S Bleeder
P-18266	P-18151	Choke Stem and Pin
P-18331	P-18358	Pump Lever
P-20885	P-18115	No 28 Main Discharge Jet
P-21637	P-18131	Thro Valve Body No 56 58 Idle Disch Holes
None Shown	P-12400	Choke Lever Washer
None Shown	P-17081	Choke Stem Collar
None Shown	P-16161	Choke Stem Collar Set Screw
None Shown	P-3881	Choke Stem Pin
None Shown	P-17259	Choke Lever Bushing
None Shown	P-18379	Fast Idle Rod
None Shown	P-17968	Fast Idle Fulcrum Screw
None Shown	P-17999	Fast Idle Fulcrum Screw Washer
None Shown	P-9394	Fast Idle Washer
None Shown	P-18919	Fast Idle Adj Set Screw
None Shown	P-17812	Fast Idle Adj Set Locknut
None Shown	P-18274	Fast Idle Lever
None Shown	P-18432	Fast Idle Rod Spring
None Shown	P-15456	Throttle Stop Screw
None Shown	P-15831	Throttle Stop Screw Spring

NOTE Pump Capacity 17 to 19 CC (Max Pump Travel) per 10 strokes

NOTE Fast Idle Set Screw 1¼ turn beyond point of contact with Throttle Valve fully closed

SPECIFICATIONS OF STANDARD EQUIPPED TRUCKS

PARTS AND SETTINGS EXCEPTIONS MODELS EX-22, EX-32 STANDARD CARBURETORS (Continued)

AVAILABLE TRUCK MODEL "W-240"

3¾" x 4¼"—6 Cylinder Wauk 'BK' Engine

F 3237 EX 32 Carburetor (Code No 70-5)

Std Part No	Special Parts Used on Above Model Truck	
P 5856	P-7786	Throttle Lever on Side Away
P 14677	P-14677	Throttle Loose Lever on End of Stem
P-15477	P-15477	No 56 Idle Air Bleeder
P-17004	P-20270	Adjustable Metering Jet
P 18126	P-18126	No 66 Pump Discharge Nozzle
P-19702	P-17005	No 28 Main Discharge Jet
P 20442	P-21178	Throttle Stem

AVAILABLE TRUCK MODEL 'W S -240"

3¾' x4¼"—6-Cylinder Mack BK Engine

F-3238 EX-32 Carburetor (Code No 70-6)

Std Part No	Special Part No Used on Above Model Truck	
P-5856	P-21195	Throttle Lever
P-15477	P-15477	No 56 Idle Air Bleeder
P-17004	P-17004	093 Adj Main Metering Jet
P-18126	P-18126	No 66 Pump Discharge Jet
P-18130	P-18931	Adjusting Metering Jet
P-19702	P-17005	No 28 Main Discharge Jet
P 20442	P-21178	Throttle Stem
None Shown	P-14677	Throttle Loose Lever
None Shown	P-17287	Throttle Loose Lever Stop

CORBITT TRUCK MODEL '1348"

3¾" x 4¼"—6 Cylinder Wauk 6 BK Engine

F-3558 EX-32 Carburetor

Std Part No	Special Parts Used on Above Model Truck	
P-17004	P 17004	059 Metering Jet
P-19702	P-17005	No 28 Main Discharge Jet

NOTE This Carburetor Has Loose Lever Same as Standard

NOTE Pump Travel Setting Minimum

DART TRUCK COMPANY

3¾"x4½'—6-Cylinder (Herc JXC Eng)

F-2392 EX-22 Carburetor (Code No 57-2)

Std Part No	Special Parts Used on Above Model Truck	
P-17004	P-20270	Adv Metering Jet

DART TRUCK 1934

3¾ x4¼"—6-Cylinder (Wauk BK Eng)

F-3169 EX-32 Carburetor (Code No 57-1)

Std Part No	Special Parts Used on Above Model Truck	
P-5856 P-20442 P-14481	P-21087	Throttle Lever and Stem
P-15477	P-15477	No 50 Idle Air Bleeder
P-17004	P-20270	Adjustable Metering Jet
P-17578	P-17010	Choke Valve
P-18126	P-18126	No 66 Pump Disch Nozzle
P-18215	P-18221 P-18223	Upper Pump Spring Lower Pump Spring
P-19527	P-18225	Pump Piston complete
P-19702	P-17005	No 28 Main Discharge Jet
P-21638	P-17256	Thro Valve Body with No 56-58 Idle Holes
None Shown	P-4735	Washer (Pump Spring)

DART TRUCK 1935

4¼" x 4½"—6 Cylinder Herc WXC-3 Engine

F-3752 EX-32 Carburetor (Code No 57-6)

Std Part No	Special Parts Used on Above Model Truck	
P-15477	P-15477	No 56 Idle Air Bleeder
P-17004	P-20270	Adjustable Metering Jet
P-17893-R	P-17893-R	Main Body with 1 5/16 Venturi No 70 High Speed Bleeder
P-18126	P-18126	No 66 Pump Discharge Jet
P-19702	P-17005	No 28 Main Discharge Jet

DIAMOND-T MODEL "351"

3¾" x 4¼"—6 Cylinder Herc JXC Engine

F-2401 EX-22 Carburetor (Code No 66-4)

Std Part No	Special Parts Used on Above Model Truck	
P-5845	P-13568	Throttle Lever
P-14084	P-11956	Loose Lever
P-17004	P-17004	057 Metering Jet
P-20217	P-21086	Throttle Stem

GENERAL MOTORS MODEL ("T-18")

3 3/16"x4 3/8"—6 Cylinder

F-2110 EX-22 Carburetor (Code No 23-26)

Std Part No	Special Part No Used on the Above Model Truck	
P-15477	P-15477	No 56 Idle Air Bleed
P-17004	P-17004	056 Main Metering Jet
P-18126	P-18126	No 70 Pump Discharge Nozzle
P-18192	P-18192	Main Body 1-3/32 Venturi No 70 H S Bleeder
P-20885	P-17005	No 28 Main Discharge Jet

INDIANA TRUCK (41921)

4" x 4½"—6 Cylinder Herc WXC Engine

F 3834 EX 32 Carburetor (Code No 30-22)

Std Part No	Special Parts Used on Above Model Truck	
P-5856	P-13848	Throttle Lever
P-14677	P-14677	Looso Lever on End of Stem
P-17004	P-17004	059 Metering Jet
P-17578	P-18277	Choke Valve
P-18266	P-18314	Choke Stem and Lever
P-18331	P-18145	Pump Lever
P-18913	P-18913	Fl Needle Valve and Seat
P-19527	P-19167	Pump Piston and Stem
P-19702	P-20886	No 28 Main Discharge Jet
P-21638	P-20294	Throttle Valve Body with No 56-58 Idle Hole

INDIANA TRUCK 1932 (43025)

4 x4½"—6-Cylinder Herc WXC Engine

A-16593 EX-32 Carburetor (Code No 30-3)

Std Part No	Special Parts Used on Above Model Truck	
P-5856 P-20442 P-14481	P-18208	Throttle Lever and Stem
P-8838	P-6592	M B Attach Screw Lockwasher
P-15477	P-15477	No 56 Idle Air Bleed
P-15578	P-17010	Choke Valve
P-17004	P-17004	068' Main Metering Jet
P-17893-R	P-17893	Main Body 1 5/16 Venturi, No 70 H S Bleeder
P-18126	P-18126	No 66 Pump Discharge Nozzle
P-18331	P-18145	Pump Lever
P-19702	P-17005	No 28 Main Discharge Jet
P-21638	P-17256	Throttle Valve Body No 56-58 Idle Holes
None Shown	P-15456	Throttle Stop Screw
None Shown	P-15831	Throttle Stop Screw Spring

NOTE Pump Capacity 17 to 19 CC Maximum Pump Travel

LE BLOND SCHACHT (8286)

Herc WXC Engine

F-2260 EX-32 Carburetor

Std Part No	Special Part No Used on Above Model	
P-17004	P-17004	066' Main Metering Jet

MACCAR TRUCK "1932" (JA-457)

3⅜' x4 —6-Cylinder Engine

A-17192 EX-22 Carburetor

Std Part No	Special Part Used on Above Model Truck	
P-2866	P-2924	Float Chamber Fillister Head Screws
P-5845 P-13245 P-20217	P-18220	Throttle Lever and Stem
P-15477	P-15477	No 51 Idle Air Bleeder
P-17004	P-17004	058 Main Metering Jet
P-18124-F	P-18216	Float Chamber Cover
P-18126	P-18126	No 70 Pump Discharge Nozzle
P-18192	P-18232	Main Body 1 3/32' Venturi, No 70 H S Bleeder
P-18215	P-18134	Pump Spring
P-18331	P-18145	Pump Lever
P-20885	P-17005	No 28 Main Discharge Jet
P 21637	P-18157	Throttle Valve Body No 56-58 Idle Holes
None Shown	P 18217	Vent Tube Nipple
None Shown	P-18218	Vent Tube Nipple Nut
None Shown	P-18219	Float Cover Vent Tube
None Shown	P-3222	Elbow Union
None Shown	P-15456	Throttle Stop Screw
None Shown	P-15831	Throttle Stop Screw Spring

NOTE Pump Capacity 17 to 19 CC (Maximum Pump Travel) per 10 strokes

NOTE Fuel Level 9/16

SPECIFICATIONS OF STANDARD EQUIPPED TRUCKS

PARTS AND SETTINGS EXCEPTIONS MODELS EX-22, EX-32 STANDARD CARBURETORS

STEWART TRUCK 1934 MODELS "29-XS" AND "32-X" (B-29334)

3¾"x4½"—6-Cylinder Engine

A-17683 EX-32 Carburetor (Code No 28-6)

Std Part No	Special Part No	Used on Above Model Truck
P-5856 P-14481 P-20442	P-19949	Throttle Lever and Stem
P-15477	P-15477	No 50 Idle Air Bleed
P-17004	P-17004	062 Main Metering Jet
P-17578	P-18765	Choke Valve
P-17893-R	P-17893	Main Body, 1$\frac{3}{16}$' Venturi, No 70 H S Bleeder
P-19702	P-17993	No 36 Main Discharge Jet
P-21638	P-18442	Throttle Valve Body No 56-58 Idle Holes
None Shown	P-15456	Throttle Stop Screw
None Shown	P-15831	Throttle Stop Screw Spring

NOTE Pump Capacity 15 to 17 CC (Min Pump Travel) per 10 strokes

NOTE Pump Travel Setting Minimum

STEWART 1934

MODEL "41-H, 41X 41XS 44X, 42X 45X 46 H 47-H' (29785)

3¼"-3⅜ x4½"—6-Cylinder Lyc Engine

A-17872 EX-22 Carburetor (Code No 28-5)

Std Part No	Special Part No	Used on Above Model Truck
P-5845	P-11968	Throttle Lever
P-6592	P-8838	Lockwasher Main Body
P-15477	P-15477	No 48 Idle Air Bleeder
P-17004	P-17004	054 Main Metering Jet
P-18126	P-18126	No 72 Pump Discharge Nozzle
P-20885	P-17005	No 28 Main Discharge Jet
P-21637	P-20214	Thro Valve Body No 56-58 Idle Holes
None Shown	P-9949	Union Elbow
None Shown	P-11956	Throttle Loose Lever
None Shown	P-16487	Loose Lever Stop

NOTE Pump Capacity 11 to 14 CC (Min Pump Travel) per 10 strokes

NOTE Pump Travel Setting Minimum

STEWART 1934 35

MODEL "48-H 48-HB, 49 H, 49 HB 50 H" TRUCK (B 30434)

3½"x4¼"—6-Cylinder Wauk Engine

A-17713 EX-32 Carburetor (Code No 28-11)

Std Part No	Special Part No	Used on Above Model Truck
P-4	P-7170	Cotter Pin
P-5856 P-14481 P-20442	P-19949	Throttle Lever and Stem
P-17004	P-17004	059' Main Metering Jet
P-17578	P-18765	Choke Valve
P-17893-R	P-17893	Main Body 1$\frac{3}{16}$" Venturi No 70 H S Bleeder
P-18126	P-18126	No 65 Pump Discharge Jet
P-18331	P-20475	Pump Lever
P-19702	P-20886	No 28 Main Discharge Jet
P-21638	P-18442	Throttle Valve Body No 56-58 Idle Holes
None Shown	P-9949	Union Elbow
None Shown	P-15456	Throttle Stop Screw
None Shown	P-15831	Throttle Stop Screw Spring

NOTE Pump Capacity 15 to 17 CC (Min Pump Travel) per 10 strokes

NOTE Pump Travel Setting Minimum

STEWART 1934 35

MODEL "41 H, 46-HB 46-H 47-HB, 47 H" (B-30674)

3⅜" x 4¼"—6 Cylinder Wauk 6BA Engine

A-18012 EX-22 Carburetor (Code No 28-8)

Std Part No	Special Part No	Used on Above Model Car
P-5845 P-13245 P-20217	P-18129	Throttle Lever and Stem
P-6592	P-8838	Lockwasher
P-17004	P-17004	054 Main Metering Jet
P-18126	P-18126	No 71 Pump Discharge Nozzle
P-18192	P-20972	Main Body 1-3/32 Venturi, No 70 H S Bleeder
P-18331	P-20475	Pump Lever
P-20885	P-20974	No 28 Main Discharge Jet
P-21637	P-18131	Throttle Valve Body No 56-58 Idle Holes
None Shown	P-9949	Union Elbow
None Shown	P-15456	Throttle Stop Screw
None Shown	P-15831	Throttle Stop Screw Spring

STUDEBAKER TRUCK, 1933 AND 34, ALL MODELS (633420)

3¼"x4⅞ —6-Cylinder Engine

A-17052 EX-22 Carburetor (Code No 6-8)

Std Part No	Special Part No	Used on Above Model Trucks
P-5845 P-13245 P-20217	P-18129	Throttle Lever and Stem
P-15477	P-15477	No 56 Idle Air Bleeder
P-15481	P-18710	Idle Needle Valve Spring
P-17004	P-17004	054' Main Metering Jet
P-18126	P-18126	No 70 Pump Discharge Nozzle
P-18192	P-18302	Main Body, 1 3/32" Venturi, No 70 H S Bleeder
P-18331	P 18358	Pump Lever
P-20885	P-18115	No 28 Main Discharge Jet
P-21637	P-18131	Throttle Valve Body, No 56-58 Idle Holes
None Shown	P-15456	Throttle Stop Screw
None Shown	P-15831	Throttle Stop Screw Spring

NOTE Pump Capacity 17 to 19 CC (Max Pump Travel) per 10 strokes

WARD LA FRANCE

3¾" x 4¼"—6 Cylinder Wauk 6 BK Engine

F-3760 EX-32 Carburetor (Code No 135-3)

Std Part No	Special Parts	Used on Above Model Truck
P-17004	P-17004	059 Metering Jet
P-18126	P 18126	No 66 Pump Nozzle
P-19702	P-17005	No 28 Main Discharge Jet

WHITE MOTOR (D-13664)

F-2980 EX-22 Carburetor (Code No 29-3)

Std Part No	Special Parts	Used on Above Model Truck
P-17004	P-17004	050 Metering Jet

Balance specifications as per A-17052 EX-22 Studebaker

WHITE MOTOR (D 13665)

F-2981 EX-22 Carburetor (Code No 29-4)

Std Part No	Special Parts	Used on Above Model Truck
P-17004	P-17004	051' Metering Jet

Balance specifications as per A-17052 EX-22 Studebaker

WHITE TRUCK

3¾"x4¼"—6-Cylinder Herc JXC Engine

A-17822 EX-22 Carburetor

Std Part No	Special Part No	Used on Above Model Truck
P-5845 P-13245 P-20217	P-18220	Throttle Lever and Stem
P-6592	P-8838	Lockwashers
P-15477	P-15477	No 56 Idle Air Bleeder
P-17704	P-17004	059 Main Metering Jet
P-18124-F	P-19883	Float Chamber Cover
P-18126	P-18126	No 65 Pump Discharge Nozzle
P-18192	P-18192-R	Main Body 1 5/32' Venturi, No 70 H S Bleeder
P-20885	P-17005	No 28 Main Discharge Jet
P 21637	P-18157	Throttle Valve Body, No 56-58 Idle Holes
None Shown	P-17825	Float Cover Vent Cap
None Shown	P-15456	Throttle Stop Screw
None Shown	P-15831	Throttle Stop Screw Spring

WHITE TRUCK 1934-35 '700 SERIES" (D-12481)

3 5/16" x 4⅞"—6 Cylinders

A-17052 EX-22 Carburetor (Code No 29-1)

Specifications Same as A-17052 Studebaker Ex 22 Carb

WHITE "1935"

3¾ x4¼"—6 Cylinder Wauk Engine (79573)

A-17902 EX-22 Carburetor (Code No 29-5)

Std Part No	Special Part No	Used on Above Model Car
P-5845	P-20274	Throttle Lever with Screw
P-6592	P-8838	Lockwashers
P-13245	P-6893	Throttle Stop
P-15477	P-15477	No 56 Idle Air Bleeder
P-17004	P-17004	059' Main Metering Jet
P-18124-F	P-19883	Float Chamber Cover
P-18126	P-18126	No 65 Pump Discharge Nozzle
P-18192	P-18192-R	Main Body 1$\frac{5}{32}$ Venturi, No 70 H S Bleeder
P-20217	P-20285	Throttle Lever Stem
P-20885	P-17005	No 28 Main Discharge Jet
P-21637	P-20214	Thro Valve Body No 56-58 Idle Holes
None Shown	P-17825	Float Cover Vent Cap

SPECIFICATIONS OF STANDARD EQUIPPED INDUSTRIAL ENGINES
PARTS AND SETTINGS EXCEPTIONS MODELS EX-22, EX-32 STANDARD CARBURETORS (Continued)

HERCULES MOTOR "JXD" (45601-BS)
4" x 4¼"—6 Cylinder Engine
F-3519 EX-22 Carburetor (Code No 27-15)

Std Part No	Special Parts Used on Above Model Engine	
P-5845 P-13245 P-20217	P-18129	Throttle Lever and Stem
P-15477	P-15477	No 56 Idle Air Bleeder
P-17004	P-17004	059 Metering Jet
P-18126	P-18126	Pump Discharge Nozzle
P-18241	P-17005	No 28 Main Discharge Jet
P-21637	P-18131	Throttle Valve Rod, No 56-58 Idle Holes
None Shown	P-15456	Throttle Adj Screw
None Shown	P-15831	Throttle Adj Screw Spring

HERCULES MOTOR (40646-BS)
3¾"x4"—6-Cylinder (J X C. Engine)
F-3258 EX-22 Carburetor (Code No 27-13)

Std Part No	Special Part No Used on Above Model Engine	
P-15477	P-15477	No 56 Idle Air Bleeder
P-17004	P-17004	059 Main Metering Jet
P-18126	P-18126	No 65 Pump Discharge Jet
P-18241	P-17005	No 28 Main Discharge Jet

WAUKESHA MOTOR (53044)
3¾ x4¼"—6-Cylinder
F-2689 EX-32 Carburetor (Code No 26-19)

Std Part No.	Special Part No Used on Above Model Engine	
P-5856	P-7887	Throttle Lever on side away
P-17004	P-17004	060 Main Metering Jet
P-18126	P-18126	No 68 Pump Discharge Nozzle
P-19702	P-17005	No 28 Main Discharge Jet

WAUKESHA (52041)
3⅜"x4¼ —6 Cyl 6-BA Engine
F-3496 EX-22 Carburetor (Code No 26-18)

Std Part No	Special Part No Used on Above Model Engine	
P-5845 P-13245 P-20217	P-18129	Throttle Lever and Stem
P-6592	P-8838	Lockwasher
P-15477	P-15477	No 56 Idle Air Bleed
P-17004	P-17004	054 Main Metering Jet
P-17010	P-18765	Choke Valve
P-18126	P-18126	No 72 Pump Discharge Nozzle
P-18192	P-20972	Main Body 1-3/32 Venturi No 70 H S Bleeder
P-18331	P-20475	Pump Lever
P-20885	P-17005	No 28 Main Discharge Jet
P-21637	P-18131	Throttle Valve Body No 56-58 Idle Holes
None Shown	P-3222	Union Elbow
None Shown	P-15456	Throttle Stop Screw
None Shown	P-15831	Throttle Stop Screw Spring

REPLACEMENT EQUIPMENTS

PARTS AND SETTINGS EXCEPTIONS MODELS EX-22, EX-32 STANDARD CARBURETORS (Continued)

(Cars and Trucks)

AUBURN 1933 MODEL "12-165"

3⅛" x 4¼"—12 Cylinder Lyc'g Engine
2 Carburetors Per Engine
J 4638 EX 22 Carburetor (Code No 17-17)

Std Part No	Special Parts Used on Above Model Car	
P-5845 P-13245 P-20217	P-18129	Throttle Lever and Stem
P-18126	P-18126	No 70 Pump Nozzle
P-18192	P-18192	Main Body with 1 3/32 Venturi and No 70 High Speed Bleeder
P-20885	P-17005	No 28 Main Discharge Jet
None Shown	P-15456	Throttle Stop Screw
None Shown	P-15831	Throttle Stop Screw Spring

CHEVROLET 1932-3-4-5 PACKAGE EQUIPMENT

with Fast Idle-Auto Choke
3 5/16"x3¾'—6-Cylinder and 3 5/16"x4'—6-Cylinder
A-17532 EX-22 Carburetor (Fast Idle) (Code No 14-2-A)

Std Part No	Special Part No. Used on Above Model Car	
P-5845 P-13245 P-20217	P-18733	Throttle Lever and Stem
P 15477	P-15477	No 50 Idle Air Bleeder (A)
P-17004	P-17004	054 Main Metering Jet
P-17053	P-18110	Air Horn Lever With Screw
P-18126	P-18126	No 72 Pump Discharge Nozzle
P-18192	P-18352	Main Body 1 3/32 Venturi No 70 H S Bleeder
P-18266	P-18246	Air Horn Stem with Pin
P-18331	P-18358	Pump Lever
P-19527	P-19167	Pump Piston and Stem
P-20885	P-19364	No 28-36 Main Discharge Jet (A)
P-21637	P-18720	Throttle Valve Body No 56-58 Idle Holes, No 52 Vac Spark Hole Flush with Throttle Valve
None Shown	P-8641	Union Elbow
None Shown	P-15456	Throttle Stop Screw
None Shown	P-15831	Throttle Stop Screw Spring
None-Shown	P-12400	Choke Stem Washer
None Shown	P-17081	Choke Stem Collar
None Shown	P-16161	Choke Stem Collar Set Screw
None Shown	P-4499	Choke Stem Pin
None Shown	P-18379	Fast Idle Rod
None Shown	P-17968	Fulcrum Screw
None Shown	P-17999	Fulcrum Screw Washer
None Shown	P-9394	Washer
None Shown	P-17998	Fast Idle Adj Set Screw
None Shown	P-17812	Fast Idle Adj Set Lock Nut
None Shown	P-18274	Fast Idle Lever
None Shown	P-18432	Fast Idle Rod Spring

NOTE Fast Idle Set Screw 1¼ turn beyond point of contact with Throttle Valve fully closed

NOTE Economizer Setting 27/64 Drill

EQUIPMENT

A-17530 Auto Choke—P-18795 Clevis—P-18797 Clevis Pin—P-16426 Washer—P-18730 Fitting—P-18726 Choke Rod—P-19313 Gasket—P-18726 Union Tee—P-18729 Elbow Union—P-18728 Tube—P-15554 Fill Hd Screw—P-3157 Lock Washer—P-6145 Cap Screw—P-2731 Washer—P-4752 Gasket—P-7170 Cotter Pin—P-3292 Pipe Plug—P-18798 Washer—P-18796 Washer

CHEVROLET 1932-3-4-5 PACKAGE EQUIPMENT

3 5/16"x3¾"—6-Cylinder
A-17542 EX-22 Carburetor (Code No 14-3-A)

Std Part No	Special Part No Used on Above Model Car	
P-5845 P-13245 P-20217	P-18733	Throttle Lever and Stem
P-15477	P-15477	No 44 Idle Air Bleeder (A)
P-17004	P-17004	054' Main Metering Jet
P-18126	P-18126	No 72 Pump Discharge Nozzle
P-18192	P-18192	Main Body 1-3/32' Venturi, No 70 H S Bleeder
P-18331	P-18358	Pump Lever
P-19527	P-19167	Pump Piston and Stem
P 20885	P-19364	No 28-36 Main Discharge Jet (A)
P-21637	P-18720	Throttle Valve Body No 56-58 Idle Holes No 52 Vac Spark Hole flush with upper edge of Throttle Valve
None Shown	P-8641	Union Elbow
None Shown	P-15456	Throttle Stop Screw
None Shown	P-15831	Throttle Stop Screw Spring

NOTE Fuel Level ⅝"
NOTE Economizer Setting 27/64 Drill

EQUIPMENT

P-4752 Gasket—P-7170 Cotter Pin—P-22419 Gas Line—P-7533 Wedge—P-21702 Union Nut

DART TRUCK

3¾"-4" x 4¼"—6 Cylinder Herc JXC-JXD Engine
J-4007 EX-22 Carburetor (Code No 57-7)

Std Part No	Special Parts Used on Above Model Truck	
P-15477	P-15477	No 56 Idle Air Bleeder
P-17004	P-20270	Adjustable Metering Jet
P-18126	P-18126	No 66 Pump Discharge Nozzle
P-20885	P-17005	No 28 Main Discharge Jet

DODGE CHRYSLER, AND DE SOTO (PACKAGE EQUIPMENT)

1929-30-31 and 32
3 x4¼"—8-Cylinder
A-17553 EX 32 Carburetor (Code No 4-26)

Std Part No	Special Part No Used on Above Model Car	
P-5856 P-14481 P-20442	P-18701	Throttle Stop and Stem
P-8838	P-6592	Lockwasher
P-17004	P-17004	059 Main Metering Jet
P-17093	P-18842	Tube Holder Fill Hd Screw
P-17578	P-18277	Choke Valve
P-17893 R	P-17893	Main Body 1 3/16' Venturi No 70 H S Bleeder
P-18215	P-18223 P-18221	Lower Pump Spring Upper Pump Spring
P-18266	P-18838	Choke Stem and Stop
P-18331	P-18145	Pump Lever
P-18913	P-18916	Float Needle Valve and Seat Assy
P-19527	P-19167	Pump Piston and Stem
P-19702	P-18548	No 28 Main Discharge Jet
P-21638	P-18598	Throttle Valve Body No 56-58 Idle Hole
None Shown	P-4735	Pump Spring Washer
None Shown	P-15456	Throttle Stop Screw
None Shown	P-15831	Throttle Stop Screw Spring
None Shown	P-12259	Tube Holder Bushing

NOTE Pump Capacity 17 to 19 CC (Max Pump Travel) per 10 strokes

NOTE Pump Travel Maximum from Oct 1st to March 31st Minimum from April 1st to Sept 30th

EQUIPMENT

P-4753 Gasket-Flange—P-15804 Flange Gasket—P-18840 Fuel Line—P-18843 Adapter—P-18841 Stud—P-17481 Union Elbow—P-18839 Straight Union

DESOTO 1933 AND 1934 PACKAGE EQUIPMENT

(With Fast Idle and Auto Choke)
3¼' x4⅜"—6-Cylinder
A-17543 EX-32 Carburetor (Fast Idle)

Std Part No	Special Part No as Used on Above Model Car	
P-5856 P-14481 P-20442	P-18705	Throttle Lever and Stem
P-8838	P-6592	Lock Washer
P-17053	P-18110	Choke Lever with Screw
P-17578	P-18277	Choke Valve
P-17893-R	P-18443	Main Body 1 3/16" Venturi No 70 H S Bleeder
P-18215	P-18223 P-18221	(Lower) Pump Springs (Upper) Pump Springs
P-18266	P-18151	Choke Stem with Pin
P-18331	P-18145	Pump Lever
P-18913	P-18916	Float Needle Valve & Seat Assy
P-19527	P-19167	Pump Piston and Stem
P-19702	P-18548	No 28 Main Discharge Jet
P-21638	P-18598	Throttle Valve Body No 56-58 Idle Hole
None Shown	P-4735	Pump Spring Washer
None Shown	P-15456	Throttle Stop Screw
None Shown	P-15831	Throttle Stop Screw Spring
None Shown	P-12400	Choke Stem Washer
None Shown	P-17081	Choke Stem Collar
None Shown	P-16161	Choke Stem Collar Set Screw
None Shown	P-17259	Choke Lever Bushing
None Shown	P-3881	Choke Stem Pin
None Shown	P-18379	Fast Idle Rod
None Shown	P-18432	Fast Idle Rod Spring
None Shown	P-17998	Fast Idle Adjusting Set Screw
None Shown	P-17812	Fast Idle Adjusting Set Screw Nut
None Shown	P-17997	Fast Idle Lever
None Shown	P-17968	Fast Idle Fulcrum Screw
None Shown	P-17999	Fast Idle Fulcrum Screw Washer
None Shown	P-9394	Fast Idle Rod Washer

NOTE Pump Capacity 17 to 19 CC (Max Pump Travel) per 10 strokes

NOTE Pump Travel Maximum from Oct 1st to March 31st Minimum from April 1st to Sept 30th

NOTE After Slow Idle Screw is set 1 turn open from closed Throttle position place 050' gauge between set screw and lug on Throttle Lever and set Fast Idle accordingly

EQUIPMENT

A-17570 Auto Choke—P-4753 Flange Gasket—P-18817 Fuel Line—P-4 Cotter Pin—P-18816 Bracket—P-18825 Choke Rod—P-18793 Ring—P-15554 Fill Hd Screw—P-3157 Lock Washer—P-18824 Stud—P-16835 Gasket (Auto Choke)—P-18823 Bracket—P-18826 Vacuum Fitting—P-18729 Coupling—P-16318 Straight Union—P-18827 Tubing

Send separate in addition to above for 1934 model only
P-17004 054' Main Metering Jet

REPLACEMENT EQUIPMENTS
PARTS AND SETTINGS EXCEPTIONS MODELS EX-22, EX-32 STANDARD CARBURETORS (C ntinued)
(Cars and Trucks)

DIAMOND T MODEL "310" AND "311" TRUCK
3⅝"x4½'—6-Cylinder (Hercules "JXB" Engine)
J-4299 EX-22 Carburetor (Code 66-3)

Std Part No	Special Part No	Used on Above Model Truck
P-5845 P-13245 P-20217	P-20850	Throttle Lever and Stem
P-17004	P-17004	057" Main Metering Jet
None Shown	P-15456	Throttle Stop Screw
None Shown	P-15831	Throttle Stop Screw Spring

ESSEX TERRAPLANE SIX 1932-33
2 15/16"x4¾ —6 Cylinder Engine
J-4765 EX-22 Carburetor (Code No 21-9)

Std Part No	Special Parts	Used on Above Model
P-5845 P-13245 P-20217	P 20444	Throttle Lever and Stem
P-15477	P-15477	No 52 Idle Air Bleeder
P-17004	P-17004	053 Metering Jet
P-18126	P-18126	No 72 Pump Discharge Jet
P-18192	P-18192	Main Body 1 3/32 Venturi No 65 H S Bleeder
P-20885	P-20228	No 28-36 Main Discharge Jet
P-21637	P-20474	Throttle Body No 56-58 Idle Holes No 52 Vac Spark Hole Flush
None Shown	P-2714	Elbow Nipple
None Shown	P-15456	Idle Adjustment Screw
None Shown	P-15831	Idle Adjustment Screw Spring

Pump Travel Setting Minimum

ESSEX TERRAPLANE "8" 1933
2 15/16' x4⅛"—8-Cylinder
J-4325 EX 22 Carburetor and Equipment (Code No 21-3)

Std Part No	Special Part No	Used on Above Model Car
P-5845 P-13245 P-20217	P-20445	Throttle Lever and Stem
P-15477	P-15477	No 56 Idle Air Bleeder
P-17004	P-17004	053' Main Metering Jet
P-18126	P-18126	No 69 Pump Discharge Nozzle
P-18241	P-18226	No 28-36 Main Discharge Jet
None Shown	P-8515	Union Elbow
None Shown	P-15456	Throttle Stop Screw
None Shown	P-15831	Throttle Stop Screw Spring

EQUIPMENT
P-4752 Flange Gasket—P-7170 Cotter Pin

ESSEX TERRAPLANE, 1934-35 PKG EQUIPT
3"x5"—6 Cylinder Engine
A-17942 EX 22 Carburetor (Code No 21-4-B)

Std Part No	Special Part No	Used on Above Model Car
P-5845 P-13245 P-20217	P-19761	Throttle Lever and Stem
P-6454	P-6454	(20°) Throttle Valve (A)
P 15477	P-15477	No 56 Idle Air Bleed
P-17004	P-17004	057 Main Metering Jet
P-17053	P-18427	Choke Lever (B)
P-18126	P-18126	No 68 Pump Discharge Nozzle
P-18215	P-18223	(Lower) Pump Spring
	P-18221	(Upper) Pump Spring
P-18241	P-21337	No 28-36 Main Discharge Jet
P-18331	P-18358	Pump Lever
P-18913	P-18916	Float Needle Valve and Seat Assembly
P-19527	P-19167	Pump Piston and Stem
P 21637	P-20971	Throttle Valve Body No 56 58 Idle Holes No 52 Vac Spark Hole (Flush) (A)
None Shown	P-4735	Pump Spring Washer
None Shown	P-3221	Union Elbow
None Shown	P-15456	Throttle Stop Screw
None Shown	P-15831	Throttle Stop Spring
None Shown	P-19596	Throttle Cracking Lever
None Shown	P-18362	Throttle Cracking Rod
None Shown	P-17050	Throttle Cracking Rod Spring
None Shown	P-9394	Throttle Cracking Rod Washer
None Shown	P-7170	Throttle Cracking Rod Cotter Pin

NOTE Throttle Valve Location 018 plus or minus 004

NOTE Pump Capacity 17 to 19 CC (Max Pump Travel) per 10 strokes

EQUIPMENT
P-16455 Gasket (Flange)—P-8108 Choke Tube 46" long—P-2245 Choke Wire, 50' long

ESSEX TERRAPLANE, 1934-35 PKG EQUIPT
3"x5"—6 Cylinder Engine
A-17932 EX-22 Carburetor (Fast Idle) (Code No 21-5A)

Std Part No.	Special Part No	Used on Above Model Car
P-5845 P-13245 P-20217	P-19761	Throttle Lever and Stem
P-6454	P-6454	(20°) Throttle Valve (A)
P-15477	P-15477	No 56 Idle Air Bleed
P-17004	P-17004	057' Main Metering Jet
P-17007	P-19579	Idle Tube, No 70 Feed Hole
P-17053	P-18110	Choke Lever with Screw
P-18126	P-18126	No 68 Pump Discharge Nozzle (A)
P-18192	P-18352	Main Body 1 5/32 Venturi No 70 H S Bleeder
P-18215	P-18223	(Lower) Pump Spring
	P-18221	(Upper) Pump Spring
P118241	P-21337	No 28-36 Main Discharge Jet (A)
P-18266	P-18151	Choke Stem with Pin
P-18331	P-18358	Pump Lever
P-18913	P-18916	Float Needle Valve and Seat Assembly
P-19527	P-19167	Pump Piston and Stem
P 21637	P-20474	Throttle Valve Body No 56 58 Idle Holes
None Shown	P-12400	Choke Stem Washer
None Shown	P-17259	Choke Lever Bushing
None Shown	P-17081	Choke Stem Collar
None Shown	P-16161	Choke Stem Collar Set Screw
None Shown	P-3881	Choke Stem Pin
None Shown	P-18379	Fast Idle Rod
None Shown	P-17968	Fast Idle Lever Fulcrum Screw
None Shown	P-17999	Fast Idle Lever Fulcrum Scr Washer
None Shown	P-9394	Fast Idle Rod Washer
None Shown	P-17998	Fast Idle Adjusting Screw
None Shown	P-17812	Fast Idle Adjusting Screw Nut
None Shown	P-17997	Fast Idle Lever
None Shown	P-18432	Fast Idle Rod Spring
None Shown	P-4735	Pump Spring Washer
None Shown	P-15456	Throttle Stop Screw
None Shown	P-15831	Throttle Stop Screw Spring
None Shown	P-3221	Union Elbow

NOTE Throttle Valve Location 018 plus or minus 004

NOTE Pump Capacity 17 to 19 CC (Max Pump Travel) per 10 strokes

NOTE Fast Idle Set Screw 1¼ turns open beyond point of contact with throttle valve fully closed

EQUIPMENT
A-17930 Automatic Choke—P-18727 Union Tee—P-16465 Gasket (Flange)—P-19313 Automatic Choke Gasket—P-18729 Union Elbow—P-20452 Air Pipe—P-20448 Bracket—P-20451 Choke Rod—P-18793 Ring—P-15554 Fill Hd Screw—P-3157 Lockwasher—P-20453 Stud—P-3187 Nut—P-20449 Bracket Support—P-3292 Plug

FORD 1932-33 MODEL B
3⅛"x4¼"—4 Cylinder
J-4294 EX-22 Carburetor (Code No 2-10)

Std Part No	Special Parts	Used on Above Models
P-5845	P-12695	Throttle Lever Assy
P-15477	P-15477	No 48 Idle Air Bleeder
P-17004	P-17004	054 Metering Jet
P-18126	P-18126	No 72 Pump Discharge Jet
P-18192	P-18192	Main Body 1 1/32 Venturi No 70 H S Bleeder
P-18913	P-18916	Float Needle and Seat Assy
P-20885	P-18413	No 28-36 Main Discharge Jet
P-21637	P-18720	Throttle Body No 56-58 Idle Holes
None Shown	P-13466	Elbow Union

EQUIPMENT
P-17889 Comp Nut—P-17888 Wedge—P-8807 Gas Line—P-16066 Manifold—P-6385 Studs—P-16465 Flange Gasket—P-14683 Nuts—P-16539 Thro Lever with Stem—P-15344 Washers—P-10773 Throttle Lever—P-79 Cotter Pins—P-6877 Cap Screws—P-6592 Lockwashers—P-17885 Dash Control—P-16495 Air Cleaner—P-3292 Plug—P-16111 Thro Rod

FORD "V-8" 1932-33 PKG EQUIPT
3 1/16"x3¾"—8 Cylinder
A-17572 EX-22 Carburetor

Std Part No	Special Part No.	Used on Above Model Car
P-5845	P-10974	Throttle Lever
P-15477	P-15477	No 52 Idle Air Bleeder
P-17004	P-17004	057 Main Metering Jet
P-17093	P-17894	Choke Tube Holder Attaching Screw
P-18126	P-18126	No 70 Pump Discharge Nozzle
P-18266	P-18960	Air Horn Stem and Stop
P-20217	P-18959	Throttle Lever Stem
P-20885	P-17005	No 28 Main Discharge Jet
P-21637	P-18131	Throttle Valve Body with No 56-58 Idle Holes
None Shown	P-17898	Gas Line Bushing
None Shown	P-13150	Throttle Lever Ball Joint Connector
None Shown	P-3157	Ball Joint Connector Lockwasher
None Shown	P-12008	Choke Tube Holder Bushings

EQUIPMENT
P-17896 Air Cleaner Adapter Bushing—P-17885 Choke Control—P-4752 Gasket

Furnish the following for 1933 Fords V-8 only in addition to the above

P-18859 Loose Lever—P-18860 Clip—P-17004 054 Metering Jet

GMC TRUCK 1934-35 MODEL "T-16"
3 5/16" x 4⅛"—6 Cylinder Olds Engine
J-4602 EX-22 Carburetor (Code No 23-35)

Std Part No	Special Parts	Used on Above Model Truck
P-17004	P-17004	058 Metering Jet
P-17007	P-19773	Idle Tubes
P-18126	P-18126	No 66 Pump Nozzle
P-20885	P-19702	No 28-32 Main Discharge Jet

REPLACEMENT EQUIPMENTS

PARTS AND SETTINGS EXCEPTIONS MODELS EX-22, EX-32 STANDARD CARBURETORS (Continued)

(Cars and Trucks)

GENERAL MOTORS MODEL (T-18")

3$\frac{3}{16}$"x4⅝"—6 Cylinder

J-4757 EX-22 Carburetor (Code No. 23 26)

Std Part No.	Special Part No. Used on the Above Model Truck	
P-15477	P-15477	No 56 Idle Air Bleed
P-17004	P-17004	052' Main Metering Jet
P-18126	P-18126	No 70 Pump Discharge Nozzle
P-18192	P-18192	Main Body 1 3/32' Venturi, No 70 H S Bleeder
P-20885	P-17005	No 28 Main Discharge Jet

MACCAR TRUCK MODEL "36A & 40A"

3¾" x 4½"—6 Cylinder Buda H-298 Engine

P-4654 EX-32 Carburetor (Code No. 38-3)

Std Part No	Special Parts Used on Above Model Truck	
P-5856	P-7887	Throttle Lever
P-15477	P-15477	No 56 Idle Air Bleeder
P-17004	P-20270	Adj Metering Jet
P-17578	P-17010	Choke Valve
P-18126	P-18126	No 66 Pump Discharge Nozzle
P-18215	P-18221 P-18223	Upper Pump Spring Lower Pump Spring
None Shown	P-4735	Pump Stem Washer
None Shown	P-3222	Elbow Union

OAKLAND 1931-32 MODEL "101"

PONTIAC 1932 MODEL "V-8"

3$\frac{7}{16}$"x3⅜"—8 Cylinder

J-4276 EX-32 Carburetor and Equipment (Code No. 80-2)

Std. Part No.	Special Part No. Used on Above Model Car	
P-5856	P-18721	Throttle Lever
P-14481 P-20442	P-18326	Throttle Stop and Stem
P-17004	P-17004	057" Main Metering Jet
P-17578	P-18277	Choke Valve
P-18215	P-18223 P-18221	(Lower) Pump Springs (Upper) Pump Springs
P-18266	P-18314	Choke Stem and Stop
P-18913	P-18916	Float Needle Valve and Seat Assembly
P-19527	P-18225	Pump Piston and Stem
P-19702	P-18548	No 28 Main Discharge Jet
P-21638	P-18373	Throttle Valve Body 56-58 Idle Holes
None Shown	P-8514	Union Elbow
None Shown	P-4735	Pump Spring Washer
None Shown	P-18723	(Extra) Throttle Lever
None Shown	P-15456	Throttle Stop Screw
None Shown	P-15831	Throttle Stop Screw Spring .

EQUIPMENT

J-4078-F Flange Fitting—P-5556 Studs—P-5558 Nuts—P-4 Cotter Pins—P-4753 Flange Gasket—P-5762 Throttle Lever Ball Joint—P-6171 Wire Connector—P-14086 Gas Line—P-15801 Fitting Gasket—P-15349 *Taper Pins to Replace Valve and Stem in Manifold*—P-8108 Choke Tubing, 36" long—P-2245 Choke Wire, 38" long—P-15799 Throttle Rod—P-18725 Heat Control Rod

OLDSMOBILE 1931 MODEL F-31

3$\frac{1}{16}$"x4⅛'—6 Cylinder Engine

J-4672 EX-22 Carburetor (Code No 5-27)

Std Part No	Special Parts Used on Above Model Car	
P-5845 P-13245 P-20217	P-18330	Throttle Lever and Stem
P-6592	P-8838	Main Body Attach Screw Lockwasher
P-17004	P-17004	057" Metering Jet
P-17010	P-18815	Air Horn Valve
P-18126	P-18126	No 70 Pump Discharge Nozzle
P-18192	P-18192-R	Main Body 1$\frac{5}{32}$ Venturi, No 70 H S Bleeder
P-19527	P-19565	Pump Piston and Stem
P-21637	P-19971	Throttle Valve Body with No 56-58 Idle Holes .
None Shown	P-19864	Main Body Stud
None Shown	P-16200	Main Body Stud Nut
None Shown	P-15456	Throttle Stop Screw
None Shown	P-15831	Throttle Ston Screw Spring

NOTE Pump Capacity 13 to 15 CC (Max Pump Travel) per 10 strokes

NOTE Economizer Setting 27/64" drill

NOTE Throttle Valve Location 018" plus or minus 004"

OLDSMOBILE 1936 MODEL "F-36"

3 5/16" x 4¼"—6 Cylinder

J-4657 EX-22 Carburetor (Code No. 5-24)

Std Part No.	Special Parts Used on Above Model Car	
P-5845 P-13245 P-20217	P-18158	Throttle Lever and Stem
P-6592	P-8898	Main Body Lockwasher
P-17004	P-17004	058' Main Metering Jet
P-17007	P-22022	Idle Tube
P-17010	P-18815	Choke Valve
P-18126	P-18126	No 69 Pump Discharge Nozzle
P-18192	P-20842-T	Main Body 1 5/32" Venturi No 70 High Speed Bleeder
P-18241	P-19702	No 28-32 Main Discharge Jet
P-18331	P-18358	Pump Lever
P-18913	P-18916	Float Needle Valve and Seat Assembly
P-19527	P-20747	Pump Piston and Stem
P-20214	P-18720	Throttle Valve Body No 56-58 Idle Holes, No 56 Vac Spark Hole Flush
None Shown	P-19864	Main Body Stud
None Shown	P-16200	Main Body Stud Nut
None Shown	P-20630	Main Discharge Jet Lead Gasket
None Shown	P-2714	Street Elbow
None Shown	P-15456	Throttle Stop Screw
None Shown	P-15831	Throttle Stop Screw Spring

NOTE Economizer Setting 27/64' Drill

NOTE Pump Capacity 6 to 8 CC (Min Pump Travel) Per 10 Strokes

NOTE Fuel Level 19/32'

NOTE Throttle Valve Location 18" Plus or Minus 004"

NOTE Pump Travel Setting Minimum

EQUIPMENT

1-P-17885 Choke Control—1-Pc 24" of $\frac{3}{16}$" Copper Tubing

PONTIAC 1933-34-35 PKG. EQUIPT.

3⅜" x 3⅞"—6 Cylinder Engine

3$\frac{3}{16}$"x3½"—8 Cylinder Engine

A-17582 EX-22 Carburetor (Fast Idle) (Code No. 13-3)

Std. Part No	Special Part No. Used on Above Model Car	
P-5845 P-13245 P-20217	P-18158	Throttle Lever and Stem
P-15477	P-15477	No 56 Idle Air Bleed
P-17004	P-17004	058" Main Metering Jet
P-17010	P-18277	Choke Valve
P-17053	P-18110	Choke Lever with Screw
P-18126	P-18126	No 65 Pump Discharge Nozzle
P-18192	P-18352	Main Body 1$\frac{5}{32}$" Venturi, No 70 H S Bleeder
P-18215	P-18221 P-18223	(Upper) Pump Piston Spring (Lower) Pump Piston Spring
P-18266	P-18151	Choke Stem and Pin
P-18331	P-18145	Pump Lever
P-18913	P-18916	Needle Valve and Seat Assembly
P-19527	P-19167	Pump Piston and Stem
P-20885	P-21337	No 28-36 Main Discharge Jet
P-21637	P-20634	Throttle Valve Body No 56-58 Idle Holes No 50 Vac (Spark Hole Flush with Upper Edge of Throttle Valve)
None Shown	P-12400	Choke Stem Washer
None Shown	P-17259	Choke Lever Bushing
None Shown	P-17081	Choke Stem Collar
None Shown	P-16161	Choke Stem Collar Set Screw
None Shown	P-3881	Choke Stem Collar Pin
None Shown	P-18379	Fast Idle Rod
None Shown	P-17968	Fast Idle Fulcrum Screw
None Shown	P-17999	Fast Idle Fulcrum Screw Washer
None Shown	P-9394	Fast Idle Rod Washer
None Shown	P-17998	Fast Idle Adjusting Screw
None Shown	P-17812	Fast Idle Adjusting Screw Nut
None Shown	P-18274	Fast Idle Lever
None Shown	P-18432	Fast Idle Rod Spring
None Shown	P-4735	Pump Washer
None Shown	P-3221	Union Elbow
None Shown	P-15456	Throttle Stop Screw
None Shown	P-15831	Throttle Stop Screw Spring

NOTE Pump Capacity 17 to 19 CC (Max Pump Travel) per 10 strokes.

NOTE After slow idle set screw is set 1 turn open from fully closed position place 050 gauge between set screw on lug on lever and set fast idle adj screw accordingly

EQUIPMENT

P-17580 Automatic Choke—P-4752 Gasket—P-19313 Gasket—P-7170 Cotter Pin—P-18881 Bracket—P-18885 Choke Rod—P-18793 Ring—P-15554 Fill Hd Screw—P-3157 Lockwasher—P-17314 Stud—P-5558 Nut—P-20237 Throttle Rod—P-18839 Union—P-17481 Elbow Union—P-18516 Fuel Line—P-2714 Street Elbow—P-3292 Plug

REPLACEMENT EQUIPMENTS

PARTS AND SETTINGS EXCEPTIONS MODELS EX-22, EX-32 STANDARD CARBURETORS (Continued)

(Cars and Trucks)

PONTIAC "8" 1933-34-35 PKG EQUIPT
PONTIAC "6" 1935 PKG EQUIPT
PLYMOUTH 1933-34-35 PKG EQUIPT.

3⅛"x4⅛"—6 Cylinder Engine (Plymouth)
3 3/16"xx3½"—8 Cylinder Engine (Pontiac 8)
3⅜"x3⅞"—6 Cylinder (Pontiac 6)
A-17432 EX-22 Carburetor (Code No 15-1-A)

Std Part No.	Special Part No	Used on Above Model Cars
P-5845 P-13245 P-20217	P-18158	Throttle Lever and Stem
P-15477	P-15477	No 54 Idle Air Bleed (A)
P-17004	P-17004	058' Main Metering Jet
P-17010	P-18277	Air Horn Valve
P-18126	P-18126	No 65 Pump Discharge Nozzle (A)
P-18192	P-18192	Main Body, 1 5/32" Venturi, No 70 H S Bleeder
P-18215	P-18223	(Lower) Pump Spring
	P-18221	(Upper) Pump Spring
P-18241	P-21337	No 28-36 Main Discharge Jet (A)
P-18266	P-18314	Air Horn Stem and Stop
P-18331	P-18145	Pump Lever
P-18913	P-18916	Float Needle Valve and Seat Assembly
P-19527	P-19167	Pump Piston and Stem
P-21637	P-20634	Throttle Valve Body No 56 58 Idle Holes, No 52 Vac Spark Hole Flush with Upper Edge of Throttle Valve
None Shown	P-4735	Pump Spring Washer
None Shown	P-15456	Throttle Stop Screw
None Shown	P-15831	Throttle Stop Screw Spring
None Shown	P-3292	Pipe Plug to be Assembled in (20634) Throttle Valve Body

NOTE Pump Capacity 17 to 19 CC (Max Pump Travel) per 10 strokes

EQUIPMENT

P 18516 Gas Line—P-4752 Gasket—P-4 Cotter Pin—P 2714 Street Elbow

PLYMOUTH 1933-34 35 PKG EQUIPT

3⅛"x4⅛"—6 Cylinder
A-17552 EX-22 Carburetor (Fast Idle)

Std Part No	Special Part No	Used on Above Model Car
P-5845 P-13245 P-20217	P-18158	Throttle Lever and Stem
P-15477	P-15477	No 54 Idle Air Bleeder
P-17004	P-17004	058 Main Metering Jet
P-17010	P-18277	Air Horn Valve
P-17053	P-18110	Choke Lever with Screw
P-18126	P-18126	No 65 Pump Discharge Nozzle
P-18192	P-18352	Main Body, 1 5/32" Venturi, No 70 H S Bleeder
P-18215	P-18223	Pump Spring—Lower
	P-18221	Pump Spring—Upper
P-18241	P-21337	No 28-36 Main Discharge Jet
P-18266	P-18151	Choke Stem and Pin
P-18331	P-18145	Pump Lever
P-18913	P-18916	Float Needle Valve and Seat Assembly
P-19527	P-19167	Pump Piston and Stem
P-21637	P-20634	Throttle Valve Body, 56-58 Idle Holes, No 50 Vac Spark Hole (Flush)
None Shown	P-4735	Pump Spring Washer
None Shown	P-15456	Throttle Stop Screw
None Shown	P-15831	Throttle Stop Screw Spring
None Shown	P-12400	Choke Stem Washer
None Shown	P-17259	Choke Lever Bushing
None Shown	P-17081	Choke Stem Collar
None Shown	P-16161	Choke Stem Collar Set Screw
None Shown	P-3881	Choke Stem Collar Pin
None Shown	P-18379	Fast Idle Rod
None Shown	P-17968	Fast Idle Fulcrum Screw
None Shown	P-17999	Fulcrum Screw Washer
None Shown	P-9394	Fast Idle Rod Washer
None Shown	P-17998	Fast Idle Adjusting Set Screw
None Shown	P-17812	Fast Idle Adjusting Set Screw Nut
None Shown	P-18274	Fast Idle Lever
None Shown	P-18432	Fast Idle Rod Spring

NOTE Pump Capacity 17 to 19 CC (Max Pump Travel) per 10 strokes

NOTE After slow idle set screw is set 1 turn from closed position place 050 gauge between set screw on lug on lever and set fast idle screw accordingly

EQUIPMENT

A-17560 Auto Choke—P-19325 Link—P-4752 Gasket—P-16835 Gasket—P-4 Cotter Pin—P-18817 Gas Line—P-18816 Bracket—P-18818 Choke Rod—P-18793 Ring—P-15554 Fill Hd Screw—P-3157 Lockwasher—P-18820 Nut—P-18819 Bracket—P-18821 Vacuum Fitting—P-18729 Coupling—P-18822 Tubing—P-3292 Plug

REO TRUCK 1932 MODEL "S-1"

3⅛' x5"—6 Cylinder Engine
J-4298 EX-22 Carburetor and Equipment (Code No 12-17)

Std Part No	Special Part No.	Used on Above Model Truck
P-5845 P-13245 P-20217	P-18946	Throttle Lever and Stem
P-17004	P-17004	056' Main Metering Jet
P-18126	P-18126	No 70 Pump Discharge Nozzle
P-20885	P-17005	No 28 Main Discharge Jet
None Shown	P-15456	Throttle Stop Screw
None Shown	P-15831	Throttle Stop Screw Spring

EQUIPMENT

P-18511 Throttle Rod—P-18512 Fuel Line

REO 1932 MODEL "1-B" 1½-Ton Truck

3⅜" x 4"—6 Cylinder Buda "J-214" Engine
J-4284 EX-22 Carburetor and Equipment

Std. Part No.	Special Part No	Used on Above Model Truck
P-5845	P-7085	Throttle Lever (17/64 on 1½ CC)
P-15477	P-15477	No 51 Idle Air Bleed
P-17004	P-17004-N	058" Main Metering Jet
P-18126	P-18126	No 70 Pump Discharge Nozzle
P-18192	P-18192	Main Body, 1-3/32 Venturi, No 70 Bleed
P-19527	P-18140	Pump Piston and Stem
P-20217	P-18319	Throttle Stem
P-20885	P-17005	No 28 Main Discharge Jet
P-21637	P-18131	Throttle Valve Body, No 56-58 Idle Holes
None Shown	P-3222	Union Elbow

EQUIPMENT

P-4752 Gasket

WILLYS MODEL "77" 1933-34

3⅛"x4⅜ —4 Cylinder
J-4542 EX-22 Carburetor and Equipment

Std Part No	Special Part No	Used on Above Model Car
P-5845	P-21135	Throttle Lever
P-15477	P-15477	No 55 Idle Air Bleed
P-17004	P-17004	050" Metering Jet
P-18126	P-18126	No 74 Pump Discharge Nozzle
P-18149	P-19481	By-Pass Jet
P-18192	P-18192	Main Body 1 1/32" Venturi and No 70 H S Bleeder
P-18913	P-18916	Fl Needle Valve and Seat
P-21637	P-21155	Thro Valve Body with No 56-58 Idle Holes and Flange Drilled 13/32", on 2⅜ CC

EQUIPMENT

P-2714 Street Elbow—P-16389 Air Cleaner

INTERNATIONAL HARVESTER CO 1933-36 'D 1", "C-1", "C-30"

J-4357 EX-22 Carburetor and Equipment (Code No 32-8)

Std Part No.	Special Part	No. Used on Above Model
P-5845	P-19330	Throttle Lever
P-15477	P-15477	No 52 Idle Air Bleeder
P-17004	P-17004	048 Main Metering Jet
P-17053	P-14072	Choke Lever
P-17067	P-19329	Choke Tube Holder
P-18126	P-18126	No 70 Pump Discharge Jet
P-18192	P-18192	Main Body No 1 1/32 Venturi, No 70 H S Bleeder
P-18266	P-21186	Choke Stem
P-20885	P-17005	No 28 Main Discharge Jet
None Shown	P-19328	Choke Tube Holder Connector

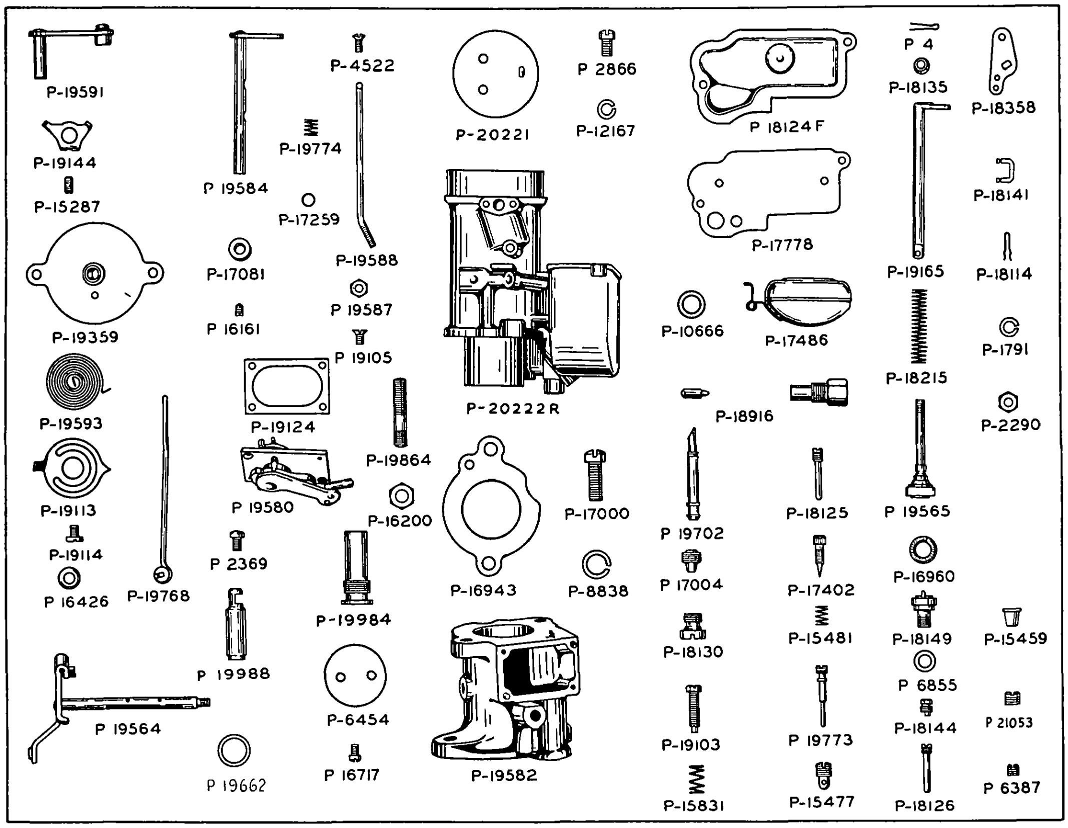
EQUIPMENT

P-4752 Gasket—P-7170 Cotter Pin

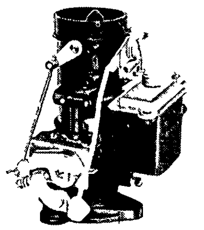
LAFAYETTE 1934 35

3¼"x4⅜"—6-Cylinder
J-4545 EX-22 Carburetor (Code No 8-16)

Same as A-17342 Nash Model "1120" Except P-17004, No 005 Main Metering Jet



EX-23
N . A-17602
1¼" CARB SAE



Notes and References

Car models having this carburetor with parts exceptions therefor are shown on back of this page

†These parts not illustrated

‡Indicates Sub assembly part

PARTS LIST STROMBERG MODEL "EX-23" CARBURETOR (as used on Oldsmobile F-34 1934)

Part No	Name	
P-4	Thermostat Stem Washer Cotter Pin	
P-4	Pump Stem Cotter Pin	
P-1791	Pump Lever Nut Lockwasher	
P-2290	Pump Lever Nut	
P-2369	Auto Choke Piston Stop Screw	
P-2866	Float Chamber Cover Screw	
P-3881	Choke Stem End Pin	
P-4522	Choke Valve Attach Screw	
P-6387	Idle Dis Channel Plug	
***P-6454**	Throttle Valve	**(VAR)**
P-6855	By-Pass Jet Gasket	
P-7170	Fast Idle Rod Cotter Pin	
P-8838	Main Body Attach Screw Lockwasher	
P-10666	Fl Needle Valve Seat and Main Dis Jet Gasket	
P 12167	Fl Cham Cover Attach Screw Lockwasher	
P-15287	Thermostat Lever Stop Set Screw	
P-15459	Idle Dis Channel Plug	
***P-15477**	Idle Air Bleed	**(VAR)**
P-15481	Idle Needle Valve Spring	
P-15831	Idle Adj Screw Spring	
P-16161	Choke Stem Collar Set Screw	
P-16200	Main Body Attach Stud Nut	
P-16426	Thermostat Stem Washer	
P-16717	Throttle Valve Attach Screw	
P-16943	Main Body Gasket	
P-17000	Main Body Attaching Screw	
***P-17004**	Main Metering Jet	**(VAR)**
P-17081	Choke Stem Collar	
P-17259	Choke Lever Spacer Bushing	
P-17402	Idle Needle Valve	
P-17486	Float	
P-17723	Thermostat Lever Stop Set Screw	
P-17778	Float Chamber Cover Gasket	
P-18114	Pump Link Cotter Pin	
P-18124F	Float Chamber Cover	
P-18125	Float Fulcrum Screw	
***P-18126**	Pump Discharge Jet	**(VAR)**
P-18130	Main Dis Jet Plug	
P-18135	Pump Piston Stem Nut	
P-18141	Pump Rod Link	
P-18144	Check Valve	

Part No	Name	
P-18149	By-Pass Jet	
P-18215	Pump Piston Link Spring	
P-18358	Pump Lever	
P-18772	Pump Channel Lead Plug	
P-18916	Float Needle Valve and Seat	
P-18970	Auto Choke Unit Attach Groove Pin	
P-19103	Idle Adj Screw	
P-19105	Auto Choke Unit Attach Screw	
P-19113	Thermostat Bracket	
P-19114	Thermostat Bracket Attach Screw	
P-19124	Auto Choke Unit Gasket	
P-19144	Thermostat Lever Stop	
P-19165	Pump Rod	
P-19359	Thermostat Cover	
P-19539	Fast Idle Cam Stop Pin	
P-19564	Throttle Lever and Stem .	
P-19565	Pump Piston and Stem	
‡P 16960	Pump Piston Retainer Spring	
P-19580	Automatic Choke Unit Assembly	
‡P-19575	Ball Joint	
†P-19581	Thermostat Unit Assembly	
P-19582	Throttle Valve Body	
P-19584	Choke Lever and Stem	
P-19587	Fast Idle Rod Ball Joint Lock Nut	
P-19588	Fast Idle Rod	
P-19591	Thermostat Lever and Stem	
‡P-11531	Thermostat Lever Wire Clamp Screw	
P-19593	Thermostat	
P-19662	Auto Choke Unit Piston Sleeve Gasket	
P-19702	Main Discharge Jet	
P-19768	Choke Rod	
P-19773	Idle Tube	
P 19774	Choke Valve Anti-Rattle Spring	
P 19864	Main Body Attach Stud	
†P-19983	Piston Adj Pin Lead Ball	
P-19984	Auto Choke Unit Piston Sleeve	
†P-19986	Auto Choke Piston Adj Pin	
P-19988	Auto Choke Unit Piston	
P-20221	Choke Valve	
***P-20222R**	Main Body	**(VAR)**
†P 20620	Auto Choke Lever and Stem	
P-21053	Pump Dis Jet Channel Drive Plug	

J 4384 G EX 23 Complete Gasket Set

*NOTE On parts marked (VAR) size must be specified when ordering

Printed in United States of America

STANDARD SPECIFICATION

OLDSMOBILE F-34 1934 (G-901581)

$3\frac{5}{16}$"x4⅛"—6 Cylinder

A-17602 EX-23 Carburetor (Code No 5-2)

P-6454	18½° Thro Valve
P-15477	No 54 Idle Air Bleed
P-17004	058 Metering Jet
P-18126	No 66 Pump Disch Nozzle
P-18149	By Pass Jet with 4 No 56 Holes
P-19702	No 28-32 Main Dis Jet
P-19582	Thro Valve Body with No 56-58 Idle Holes
P-19773	Idle Tube, No 72 Feed Hole
P-20222R	Main Body with $1\frac{5}{32}$" Venturi with No 70 H S Bleeder

STANDARD SETTINGS FOR EX-23 CARBURETORS

Throttle Valve Location Upper lip of Thro Valve to be 018 plus or minus 004 below lower edge of upper idle hole

Pump Capacity 6 to 8 CC (Fast) and 13 to 15 CC (Slow) per 10 strokes (Minimum Pump Travel)

Economizer Setting Adjust pump piston stem nut until piston rests on seat of By-Pass Jet (Less over travel with Thro Valve cracked open with a 27/64" drill) (Maximum pump travel—end hole in pump travel lever)

Pump Travel Setting Minimum

Fuel Level $\frac{19}{32}$" below top face of Float Chamber at 3-lb pressure

Slow Idle Screw ¾ turn from closed Throttle position

Thermostat Unhook Thermostat and at 70° F (See Note) hook on bracket to be in contact with hook on Thermostat without tension (Stamped 0 in line with pointer)

Thermostat Setting Turn pointer 15 notches in rich direction and lock (Prick punch position)

NOTE To determine 70° F Thermostat Setting If temperature in room is below 70° F, turn pointer in rich direction 1 notch per each 5° and if above 70° F turn pointer in lean direction 1 notch per each 5° (Allow thermostat to cool, or warm, so as to be of same temperature of room)

SPECIFICATIONS OF STANDARD EQUIPPED PASSENGER CARS
PARTS AND SETTINGS EXCEPTIONS MODEL EX-23 STANDARD CARBURETORS

GRAHAM 1935 MODEL "73" (81846)

3¼"x4½'—6-Cylinder Engine

A-18102 EX-23 Carburetor (Code No 9-5)

Std Part No.	Special Part No	Used on Above Model Car
P-17004	P-17004	061 Main Metering Jet
P-18126	P-18126	No 66 Pump Discharge Nozzle
P-19113	P-20834	Thermostat Bracket
P-19114	P-20618	Thermo Brkt Attach Screw
P-19359	P-20931	Thermostat Cover
P-19564	P-20913	Throttle Stop and Stem
	P-13427	Throttle Lever
P-19565	P-19167	Pump Piston and Stem
P-19581	P-20930	Thermostat Assembly
P-19582	P-20919	Throttle Valve Body, No 56-58 Idle Holes
P-19588	P-21187	Fast Idle Rod
P-19591	P-20933	Thermo Lever and Stem
P-19593	P-20718	Thermostat
P-19702	P-20969	No 32 Main Discharge Jet
P-19768	P-20934	Choke Rod
P-19773	P-17007	Idle Tube, No 70 Feed Hole
P-20221	P-20912	Air Horn Valve
P-20222-R	P-20682-T	Main Body, $1\frac{5}{32}$" Venturi No 70 High Speed Bleeder
None Shown	P-19587	Hex Nut (Choke Rod)

NOTE Fuel Level ⅝"

NOTE Economizer Setting ⅜" Drill

NOTE Thermostat Setting 17 notches rich

NOTE Slow Idle Screw 1 turn

NOTE Pump Capacity 7 to 9 CC (Fast) and 17 to 19 CC (Slow) per 10 strokes (Maximum Adj)

NOTE Pump Travel Setting Maximum

STUDEBAKER 1935 MODEL "1-A" DICTATOR (184716)

3¼"x4⅛'—6-Cylinder

A-17922 EX 23 Carburetor (Code No 6-9C)

Std Part No	Special Part No	Used on Above Model Car
P-3881	P-4499	Choke Stem Pin
P-15477	P-20636	Idle Tube (No 68 Feed Hole) Air Bleed (No 54)
P-18126	P-18126	No 69 Pump Discharge Nozzle
P-18215	P-18223	(Lower) Pump Springs
	P-18221	(Upper) Pump Springs
P-18916	P-21518	Needle Valve and Seat Assy (C)
P-19114	P-20618	Thermostat Brkt Attach Screw
P-19359	P-21586	Thermostat Cover
P-19565	P-20644	Pump Piston and Stem
P-19584	P-20602	Choke Lever and Stem
P-19580	P-20605	Auto Choke Unit
P-19581	P-20478	Thermostat Assembly (B)
P-19591	P-19975	Thermostat Lever and Stem
P-19593	P-21370	Thermostat (B)
P-19702	P-20638	No 32 Main Discharge Jet
P-19768	P-20604	Choke Rod
P-19984	P-21176	Piston Sleeve (A)
P-19988	P-21350	Vacuum Piston (B)
P-20222-R	P-20632-T	Main Body, 1-3/32' Venturi, No 70 H S Bleeder
J-4384-G	J-4534-G	Complete Gasket Jet
None Shown	P-20603	Venturi Cap
None Shown	P-20630	Main Discharge Jet Lead Gasket
None Shown	P-4735	Pump Spring Washer
None Shown	P-20667	Choke Lever

NOTE Fuel Level ⅝"

NOTE Economizer Setting ⅜' Drill

NOTE Thermostat Setting 10 notches rich

NOTE Pump Capacity 9 to 11 CC (Fast) and 13 to 15 CC (Slow) per 10 strokes (Maximum Adj)

NOTE Pump Travel Setting Maximum

STUDEBAKER 1936 DICTATOR "A" (187707)

3¼" x 4⅜"—6 Cylyinders

A-18222 EX-23 Carburetor (Code No 6-49A)

Std Part No	Special Parts	Used on Above Model Car
P-16943	P-19323	Main Body Gasket
P-17000	P-19339	Main Body Attaching Screw
P-18114	P-19374	Pump Link Cotter Pin
P-18130	P-21697	Main Discharge Jet Plug
P-18141	P-20203	Pump Link
P-18358	P-20628	Pump Lever
P-18916	P-21518	Fl Needle Valve and Seat
P-19114	P-20618	Thermostat Brkt Attach Screw
P-19359	P-21586	Thermostat Cover
P-19564	P-21695	Throttle Lever and Stem
P-19565	P-20747	Pump Piston and Stem
P-19580	P-20605	Automatic Choke Unit
P-19581	P 20478	Thermostat Unit Complete
P-19582	P 22048	Throttle Valve Body with No 56-58 Idle Holes and No 55 Idle Air Bleeder
P-19583	P-21698	Fast Idle Rod
P-19584	P-20602	Choke Stem and Lever
P-19591	P-19975	Thermostat Lever and Stem
P-19593	P-21370	Thermostat
P-19702	P-21687	No 28-32 Main Discharge Jet
P-19768	P-21678	Choke Rod
P-19773	P-21688	Idle Tube
P-19984	P-21176	Vacuum Piston Sleeve
P-19988	P-21350	Vacuum Piston
P-20222-R	P-21693-T	Main Body 1 5/32 Venturi and No 70 High Speed Bleeder
J-4384-G	J-4384-G	Complete Gasket Set
None Shown	P-19322	Main Body Insul Gasket
None Shown	P-20630	Main Jet Lead Gasket
None Shown	P-22071	Idle Tube Gasket (A)

NOTE Fuel Level ⅝" below top face of Float Chamber at 3 lbs pressure

NOTE Economizer Setting $\frac{7}{16}$" Drill

NOTE Thermostat Setting 10 Notches Rich

NOTE Pump Capacity 12 to 14 CC (Fast) and 17 to 19 CC (Slow) Per 10 Strokes

NOTE Pump Travel Setting Middle Hole in Pump Lever

SPECIFICATIONS OF STANDARD EQUIPPED PASSENGER CARS
PARTS AND SETTINGS EXCEPTIONS MODEL EX-23 STANDARD CARBURETORS

STUDEBAKER 1937 DICTATOR MODELS 5A & 6A (189766)

3¼ x4⅜"—6 Cylinders

A-18402 EX-23 Carburetor (Code No 6-62-A)

Std Part No.	Special Parts Used on Above Model Car	
P-16943	P-19323	Main Body Gasket
P-17000	P-19339	Main Body Attaching Screw
P-18114	P-19374	Pump Link Cotter Pin
P-18130	P-21697	Main Discharge Jet Plug
P-18141	P-20203	Pump Link
P-18358	P-20628	Pump Lever
P-18916	P-21518	Fl Needle Valve and Seat
P-19114	P-20618	Thermostat Brkt Attach Screw
P-19359	P-22629	Thermostat Cover
P-19564	P-21695	Throttle Lever and Stem
P-19565	P-20747	Pump Piston and Stem
P-19580	P-20605	Automatic Choke Unit
P-19581	P-22527	Thermostat Unit Complete
P-19582	P-22768	Throttle Valve Body with No 56-58 Idle Holes and No 55 Idle Air Bleeder, 2 No 50 Vacuum Spark Holes to come flush to 006" above closed throttle valve
P-19583	P-21698	Fast Idle Rod
P-19584	P-20602	Choke Stem and Lever
P-19591	P-19975	Thermostat Lever and Stem
P-19593	P-21370	Thermostat
P-19702	P-21687	No 28-32 Main Discharge Jet
P-19768	P-21678	Choke Rod
P-19773	P-21688	Idle Tube
P-19984	P-21176	Vacuum Piston Sleeve
P-19988	P-21350	Vacuum Piston
P-20222-R	P-21693-T	Main Body $1\frac{5}{32}$' Venturi and No 70 High Speed Bleeder
J-4384-G	J-4610-G	Complete Gasket Set
None Shown	P-20630	Main Jet Lead Gasket
None Shown	P-19322	Main Body Insulator Gasket
None Shown	P-22071	Idle Tube Gasket

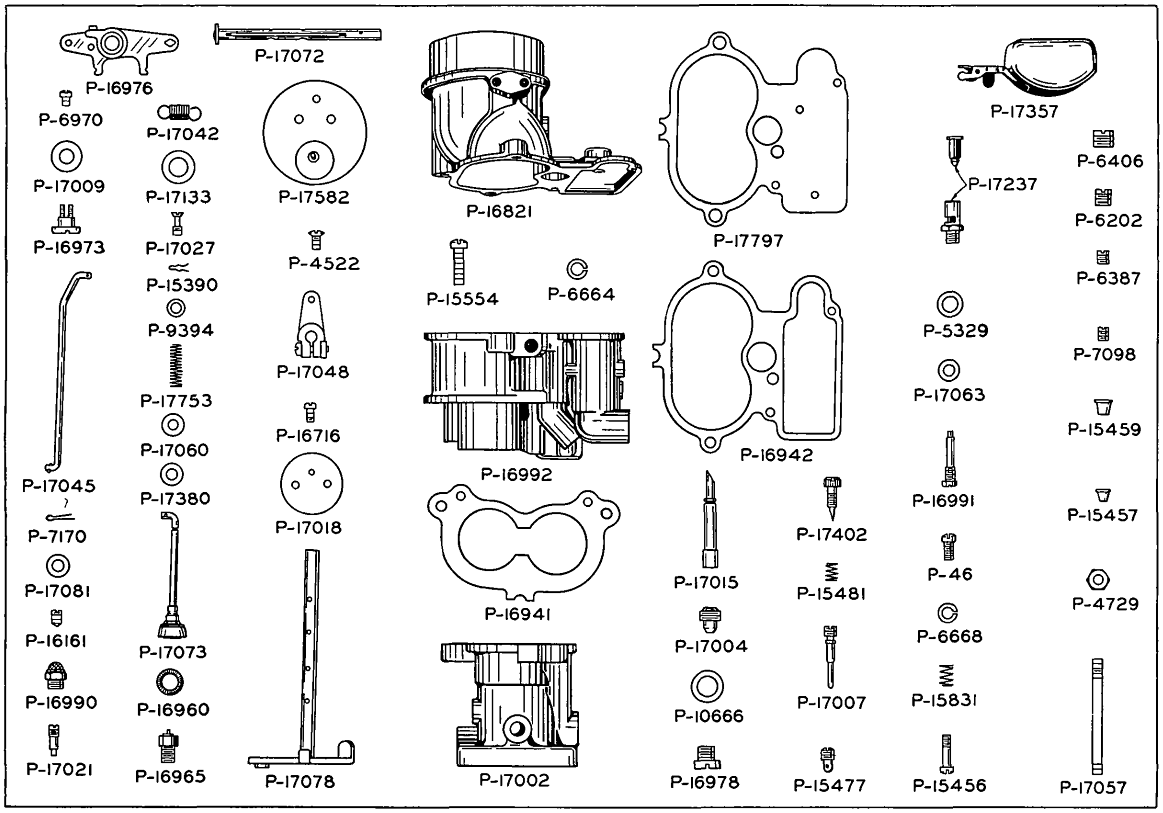
NOTE Fuel Level ⅝" below top face of float chamber at 3 lbs pressure

NOTE Economizer Setting $\frac{7}{16}$" Drill

NOTE Thermostat Setting 10 notches Rich

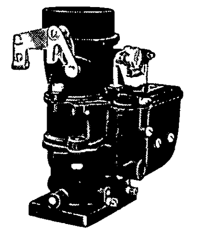
NOTE Pump Capacity 12 to 14CC (Fast) and 17 to 19 CC (Slow) per 10 strokes

NOTE Pump Travel Setting Middle Hole in Pump Lever



EE-2 N . A-16212

1¼" DUAL CARB



Notes and References: Car models having this carburetor with parts exceptions therefor are shown on back of this page

†These parts not illustrated

‡Indicates Sub-assembly part

PARTS LIST STROMBERG MODEL "EE-2" CARBURETOR (AS USED ON L-32, 1932 OLDSMOBILE)

Part No	Name	
P-46	Air Horn Attaching Screw	
P-4522	Choke Valve Screw	
P-4729	Air Horn Stud Nut	
P-5329	Float Needle Valve Seat Gasket	
P-6202	Pump Discharge Nozzle Channel Plug	
P-6387	Idle Channel Screw Plug	
P-6406	Pump Dis Nozzle Channel Plug (External)	
P-6664	Main Body Attaching Screw Lockwasher	
P 6664	Air Horn Stud Nut Lockwasher	
P-6668	Air Horn Attaching Screw Lockwasher	
P 6970	Pump Lever Stop Screw	
P-7098	Pump Check Valve Channel Plug	
P-7170	Pump Rod Cotter Pin	
P-9394	Pump and Link Spring Washer	
P-9394	Pump Rod Washer	
P-10666	Main Discharge Jet Plug Gasket	
P-15390	Pump and Link Spring Cotter Pin	
P-15456	Throttle Stop Screw	
P-15457	Idle Air Bleed Channel Plug	
P-15459	Idle Channel Screw Plug	
*P-15477	Idle Air Bleed	(VAR)
P-15481	Idle Needle Valve Spring	
P-15554	Main Body Attaching Screw	
P-15831	Throttle Stop Screw Spring	
P-16161	Choke Lever Stem Collar Set Screw	
P-16716	Throttle Valve Screw	
P 16821	Air Horn	
P-16941	Main Body Gasket	
P-16942	Air Horn Gasket	
P-16960	Pump Piston and Link Spring	
*P-16965	Economizer By-Pass Jet	(VAR)
P-16973	Pump Lever Fulcrum Screw	
P-16976	Pump Lever (Complete)	
P-16978	Main Discharge Jet Plug	
P-16990	Pump Check Valve (Complete)	
P 16991	Float Fulcrum Screw	
*P-16992	Main Body	(VAR)
*P-17002	Throttle Valve Body	(VAR)
*P-17004	Main Metering Jet	(VAR)
P-17007	Idle Tube	
P 17009	Pump Lever Fulcrum Screw Lock Screw Washer	
P-17015	Main Discharge Jet	
*P-17018	Throttle Valve	(VAR)
P-17027	Pump Lever Fulcrum Screw Lock Screw	
P-17042	Pump Lever Spring	
P-17045	Pump Rod	
P-17048	Choke Lever (Complete)	
‡P-9025	Choke Lever Clamp Screw	
‡P 4517	Choke Lever Clamp Screw Nut	
P-17057	Air Horn Stud	
P-17060	Pump Piston and Link Washer	
P-17063	Float Fulcrum Screw Gasket	
†P-17069	Air Horn (Complete)	
P 17072	Choke Lever Stem (Complete)	
P-17073	Pump Piston and Link (Complete)	
P-17078	Throttle Lever and Stem (Complete)	
P 17081	Choke Lever Stem Collar	
P-17133	Pump Lever Fulcrum Screw Spring Washer	
P-17237	Float Needle Valve and Seat	
P-17357	Float with Lever (Complete)	
P-17380	Pump and Link Felt Washer	
P 17402	Idle Needle Valve	
P 17582	Choke Valve	
P-17753	Pump and Link Spring	
P-17797	Air Horn Gasket	
*P-18213	Pump Discharge Nozzle	(VAR)

J 4183-G EE 2 Complete Gasket Set

*NOTE On parts marked (VAR) size must be specified when ordering

STANDARD SPECIFICATION

OLDSMOBILE "L-32" 1932 (401385)
3"x4¼"—8 Cylinder
No A-16212—EE-2 Carburetor (Code No. 5-15)

P-15477	Idle Air Bleed No 50
P-16965	060' By-Pass Jet
P-16992	Main Body 1 1/32' Venturi, No 70 H S Bleeder
P-17004	Metering Jet 052'
P-17007	Idle Tube, No 70 Feed Hole
P-17015	Main Discharge Jet No 36
P-17018	Throttle Valve No 53 Hole
P-18213	Pump Discharge Nozzle No 73
P-17002	Throttle Valve Body with No 60 Idle Hole

STANDARD SETTING FOR EE-2 CARBURETOR

Throttle Valve Location Upper lip of throttle valve to be 003 plus or minus 004 below lower edge of upper idle holes

Gas Level 9/16' below top face of fl chamber at 3 lbs pressure

Economizer Setting Pump piston to rest on seat of by-pass jet (Less over travel), with throttle valve cracked open with 13/64" drill plus or minus 1/64" (Max pump travel—end hole in pump lever)

Throttle Valve To be set 006 open

PARTS AND SETTINGS EXCEPTIONS MODEL EE-2

STANDARD CARBURETOR

(Passenger Cars)

FRANKLIN "12" 1932-33 (54883)
3¼" x 4"—12 Cyl.
No A-16472—EE-2 Carburetor (Code No 20-4)

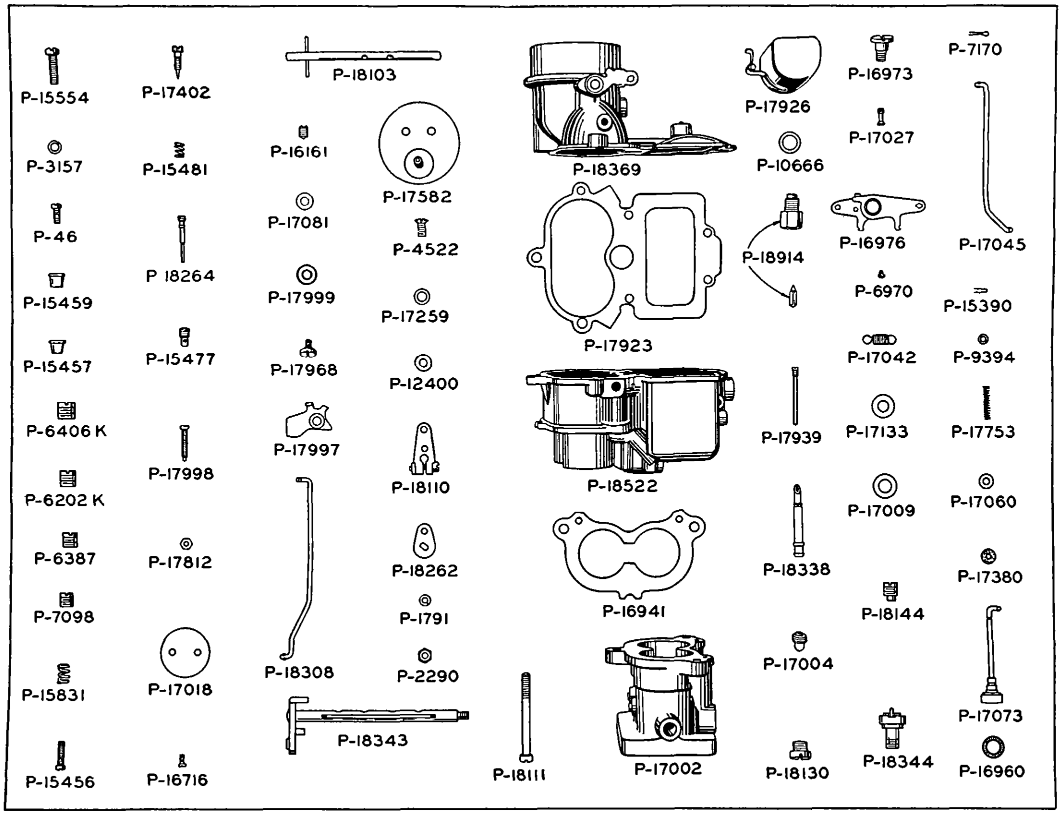
Std Part No.	Part Used on Above Model Car	
P-16976	P-17784	Pump Lever
P-16992	P-17552	Main Body 1 3/32" Venturi, No 70 H S Bleeder
P-17002	P-17002	Throttle Valve Body with No 58 Idle Hole
P-17004	P-17004	Metering Jet 062"
P-17021	P-18213	Pump Discharge Nozzle No 68
P-17069	P-17460	Air Horn (Comp)
P-16821	P-17458	Air Horn
P-17072	P-17224	Choke Stem and Lever
P-17078	P-17221	Throttle Lever and Stem
P-17582	P-17594	Choke Valve
None Shown	P-17067	Choke Tube Holder
None Shown	P-17093	Choke Tube Holder Attaching Screw
None Shown	P-17068	Choke Return Spring
None Shown	P-16426	Choke Stem Washer
None Shown	P-4	Choke Stem Cotter Pin
None Shown	P-17459	Stud
None Shown	P-16639	Stud Nut
None Shown	P-12167	Stud Nut Lockwasher

NOTE Pump Capacity 28 to 32 CC per 10 strokes (Max setting)
NOTE Economizer Setting 9/32" drill plus or minus 1/64'.
NOTE Pump Travel Setting Maximum

NASH "1070" 1932 (23115)
3" x 4⅜"—8 Cyl.
No. A-16312—EE-2 Carburetor (Code No 8-11)

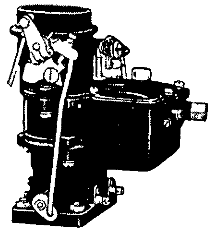
Std Part No	Part Used on Above Model Car	
P-17004	P-17004	Metering Jet 050"
P-17069	P-17220	Air Horn (Comp)
P-17072	P-17224	Choke Stem and Lever
P-17078	P-17221	Throttle Lever and Stem
P-18213	P-17021	No 73 Pump Discharge Jet
None Shown	P-16426	Choke Stem Washer
None Shown	P-4	Choke Stem Washer Cotter Pin
None Shown	P-17068	Choke Lever Return Spring
None Shown	P-17067	Choke Tube Holder (Comp)
None Shown	P-17093	Choke Tube Holder Attaching Screw
None Shown	P-17070	Choke Valve

NOTE Pump Capacity 14 CC per 10 strokes



EE-22 N . A-17242

1¼" DUAL CARB.



Notes and References:
Car models having this carburetor with parts exceptions theretor are shown on back of this page

†These parts not illustrated

‡Indicates Sub assembly part

PARTS LIST STROMBERG MODEL "EE-22" CARBURETOR (AS USED ON OLDSMOBILE 1933, L-33

Part No	Name	
P-46	Air Horn Attaching Screws	
P-1791	Fast Idle Pump Lockwasher	
P-2290	Fast Idle Pump Nut	
P-3157	Air Horn Attaching Screw Lockwasher	
P-3157	Main Body Attaching Screw Lockwasher	
P-4522	Choke Valve Screw	
P-6387	Idle Channel Screw Plug	
P-6668	Air Horn Attaching Screws Lockwashers	
P 6855	By Pass Jet Gasket	
P-6970	Pump Lever Stop Screw	
P-7098	Pump Discharge Nozzle Channel Screw Plugs	
P 7170	Fast Idle Rod Washer Cotter Pin	
P-7170	Pump Piston Link Cotter Pin	
P-7170	Pump Rod Cotter Pin	
P-9394	Fast Idle Rod Washer	
P-9394	Pump Rod Washer	
P-9394	Pump and Link Spring Washer	
P-10666	Float Needle Valve Seat Gasket	
P-10666	Main Discharge Jet Plug Gasket	
P-12400	Choke Stem Washer	
†P 14346	Pump Dis Nozzle Channel Lead Balls	
P-15390	Pump and Link Spring Cotter Pin	
P 15456	Throttle Stop Screw	
P-15457	Idle Air Bleed Channel Plug	
P-15459	Idle Channel Screw Plug	
*P-15477	Idle Air Bleed	(VAR)
P-15481	Idle Needle Valve Spring	
P-15554	Main Body Attaching Screw	
P-15831	Throttle Stop Screw Spring	
P-16161	Choke Stem Collar Set Screw	
P-16716	Throttle Valve Screw	
P-16941	Main Body Gasket	
P-16973	Pump Lever Fulcrum Screw	
P-16976	Pump Lever (Complete)	
*P-17002	Throttle Valve Body	(VAR)
*P-17004	Main Metering Jet	(VAR)
P-17009	Pump Lever Fulcrum Screw Lock Screw Washer	
*P-17018	Throttle Valve	(VAR)
P-17027	Pump Lever Fulcrum Screw Lock Screw	
P-17042	Pump Lever Spring	
P-17045	Pump Rod	
P-17060	Pump Piston and Link Washer	
P-17073	Pump Piston and Link (Complete)	
‡P-16960	Pump Piston Spring	
P-17081	Choke Stem Collar	
P-17133	Pump Lever Fulcrum Screw Spring Washer	
P-17259	Choke Stem Bushing	
P-17380	Pump and Link Felt Washer	
P-17402	Idle Needle Valve	
P-17582	Choke Valve (Complete)	
P-17753	Pump and Link Spring	
P 17812	Fast Idle Adj Lever Set Screw Nut	
P-17923	Air Horn Gasket	
P-17926	Float with Lever (Complete)	
P-17939	Float Fulcrum Screw	
P-17968	Fast Idle Lever Fulcrum Screw	
P-17997	Fast Idle Lever	
P-17998	Fast Idle Adj Lever Set Screw	
P-17999	Fast Idle Lever Fulcrum Screw Washer	
P-18103	Choke Lever Stem and Pin	
‡P-18102	Choke Lever Stem Pin	
P-18110	Choke Lever (Complete)	
‡P-18300	Choke Lever Clamp Screw	
‡P-18299	Choke Lever Clamp Screw Nut	
P-18111	Air Horn Attaching Screw	
P-18130	Main Discharge Jet Plug	
P-18144	Pump Check Valve (Complete)	
P-18262	Fast Idle Pump Lever	
P-18264	Idle Tube	
P-18308	Fast Idle Rod	
P-18338	Main Discharge Jet	
P-18343	Throttle Lever and Stem (Complete)	
P-18344	Economizer By-Pass Jet	
P-18345	Pump Dis Nozzle Channel Drive Plugs (Lg)	
†P-18347	Air Horn with Valve (Complete)	
P-18356	Spring Clip	
‡P-18369	Air Horn (Complete)	
‡P-17995	Fast Idle Adj Lever	
*P-17996	Fast Idle Adj Lever Bushing	
*P-18522	Main Body	(VAR)
P-18914	Float Needle Valve and Seat	

J 4363 G EE 22 Complete Gasket Set

***NOTE** On parts marked (**VAR**) size must be specified when ordering

STANDARD SPECIFICATION

OLDSMOBILE "L-33" 1933 (402500)
3 x 4¼—8 Cyl
No. A-17242 EE-22 Carburetor (Code No 5-13)

P-15477	Idle Air Bleeder No 42
P-17002	Thro Val Body with No 56 60 Idle Holes
P-17004	Metering Jet 049'
P-17018	Thottle Valve (5°)
P-18264	Idle Tube, No 72 Feed Hole
P-18338	Main Discharge Jet No 36
P-18344	No 65 By-Pass Jet
P-18522	Main Body 1 1/32" Venturi with No 65 H H S Bleeder

STANDARD SETTING FOR EE-22 CARBURETOR

Throttle Valve Location Upper lip of Thro Valve to be 010 plus or minus 004 below lower edge of upper idle holes

Pump Capacity 17 CC per 10 strokes (Minimum Setting)

Fuel Level 21/32 below top face of Float Chamber at 3 lbs pressure

Economizer Setting Pump Piston to rest on seat of By-Pass Jet (Less over travel), with Thro Valve cracked open with ¼" Drill, plus or minus 1/64' (Maximum pump travel—end hole in pump lever)

Pump Travel Setting Minimum

Slow Idle Screw 1½ turns from closed position of throttle

Fast Idle Setting After Slow Idle Setting put a 090 gauge between Thro Stop Screw and lug of Thro Lever and set Fast Idle Screw accordingly

SPECIFICATIONS OF STANDARD EQUIPPED PASSENGER CARS PARTS AND SETTINGS EXCEPTIONS MODEL EE-22 CARBURETOR

A-18332 EE-22 Standard Carburetor

Std Part No	Special Part No	Used on Above Model
P-15481	P-18710	Idle Needle Valve Spring
P-16161	P-4	Choke Stem Cotter Pin
P-17004	P-17004	050 Main Metering Jet
P-17081	P-16426	Choke Stem Washer
P-17582	P-17070	Choke Valve
P-17966	P-18486	Air Horn Casting
P-18103	P-17224	Choke Stem and Stop
P-18144	P-16990	Check Valve
P-18264	P-17007	Idle Tube No 70 Feed Hole
P-18338	P-17969	No 36 Main Discharge Jet
P-18343	P-17078	Throttle Lever and Stem
P-18344	P-18149	By Pass Jet 4—No 56 Holes
P-18347	P-19182	Air Horn (Complete)
P-18522	P-21744	Main Body 1 1/32 Venturi No 70 H S Bleeder
None Shown	P-6387-F	Screw Plug (10-32)
None Shown	P-17093	Tube Holder Screws
None Shown	P-17391	Tube Holder
None Shown	P-17068	Choke Stem Spring
None Shown	P-18852	No 71 Pump Discharge Nozzle
None Shown	P-3292	Pipe Plug
None Shown	P-17053	Choke Lever
None Shown	P-17059	Choke Lever Fulcrum Screw
None Shown	P-17058	Choke Lever Bushing
None Shown	P-17132	Choke Lever Spring

NOTE Pump Capacity 17 to 22 cc (Max Pump Travel) per 10 strokes

NOTE Pump Travel Max between Oct 1st to March 31st Min between April 1st to Sept 30th

NOTE Economizer Setting ¼' plus or minus 1/64

NOTE Throttle Valve Location Upper lip of Throttle Valve to be 030' plus 004 below lower edge of upper idle hole

Std Part No	Special Part No	Used on Above Model Car
P-18338	P-21682	No 28 Main Discharge Jet
P-18343	P-21539	Throttle Lever and Stem
	‡P-21541	Ball Joint
	‡P-1791	Ball Joint Lockwasher
	‡P-16571	Ball Joint Nut
P-18344	P-20467	By-Pass Jet (1 No 65)
P-18347	P-21533	Air Horn with Valve Complete
P-18369	P-21534	Air Horn
P-18522	P-21560	Main Body 1 3/16 Venturi No 70 H S Bleeder, No 65 Pump Nozzle
P-18914	P-21651	Fl Needle Valve and Seat
J-4363-G	J-4600-G	Complete Gasket Set
None Shown	P-20630	Main Jet Lead Gasket
None Shown	P-21553	Pump Piston Link and Spring Assem
None Shown	P-19460	Spring Retainer Washer
None Shown	P-19459	Spring Retainer Horseshoe Washer
None Shown	P-9394	Pump Link Washer
None Shown	P-17947	Packing Retainer Spring
None Shown	P-21510-F	Fl Chamber Baffle Cup
None Shown	P-16764	Choke Valve Stop Pin
None Shown	P-3881	Choke Stem Wedge Pin

NOTE Fuel Level ⅝'

NOTE Throttle Valve Location Upper Lip of Throttle Valve to Be 030 Plus or Minus 004 Below Lower Edge of Upper Idle Hole

NOTE Pump Capacity 13 to 17 CC (Fast) and 23 to 27 CC (Slow) Per 10 Strokes

NOTE Economizer Setting 3/16 Plus or Minus 1/64

BUICK 1936 MODEL "60, 80 & 90" (1293352)

3 7/16" x 4 5/16"—8 Cylinder
A-18182 EE-22 Carburetor (Code No 7-6)

Std Part No.	Special Parts Used on Above Model Car	
P-46	P-2475	Air Horn Attaching Screw
P-6855	P-19448	By Pass Jet Gasket
P-15390	P-7170	Pump Link Cotter Pin
P-15481	P-18710	Idle Needle Valve Spring
P-16973	P-19433	Pump Lever Fulcrum Screw
P-16976	P-21733	Pump Lever
P-17002	P-21521	Throttle Valve Body with 56 60 Idle Holes No 58 Idle Air Bleeder No 64 Vac Spark Hole 085 Plus or Minus 006 Above Throttle Valve
P-17004	P-17004	052' Metering Jet
P-17009	P-21547	Pump Lever Ful Screw Washer
P-17042	P-21569	Follow Up Spring
P-17045	P-21548	Pump Rod Assy
P-17073	P-21554	Pump Piston and Link
P-17133	P-19820	Pump Lever Ful Screw Spring Washer
P-17402	P-15478	Idle Needle Valve
P-17582	P-21538	Choke Valve
P-17923	P-21570	Air Horn Gasket
P-17926	P-21551	Float
P-18103	P-21535	Choke Lever and Stem
P-18130	P-21558	Main Discharge Jet Plug
P-18264	P-21557	Idle Tube with No 60 Feed Hole

BUICK 1936 MODEL '60, 80 & 90" (1293510)

With Triplex Air Cleaner
3 7/16" x 4 5/16"—8 Cylinder
A-18192 EE-22 Carburetor (Code No 7-8)
Same as A-18182 Except P-17004 051" Metering Jet

NOTE Setting Same as A-18182

BUICK 1936 MODEL "60, 80 & 90" (1295805)

3 7/16" x 4 5/16"—8 Cylinders
A-18302 EE-22 Carburetor (Code No 7-10)
Used on Cars Starting with Frame No 2873362

Parts Same as A-18182 with Following Exceptions

P-21945	Throttle Lever and Stem
P-21948	Pump Rod

NOTE Settings Same as A-18182 with Exceptions of Economizer Setting 15/64 Plus or Minus 1/64

BUICK 1936 MODEL "60, 80 & 90" (1295806)

With Triplex Air Cleaner
3 7/16" x 4 5/16"—8 Cylinders
A-18312 EE-22 Carburetor (Code No 7-11)
Used on Cars Starting with Frame No 2873362

Parts Same as A-18182 with Following Exceptions

P-17004	051' Metering Jet
P-21945	Throttle Lever and Stem
P-21948	Pump Rod

NOTE Setting Same as A-18182 with Exception of Economizer Setting 15/64' Plus or Minus 1/64'

SPECIFICATIONS OF STANDARD EQUIPPED PASSENGER CARS

PARTS AND SETTINGS EXCEPTIONS MODEL EE-22 STANDARD CARBURETOR (Continued)

CHRYSLER 1934 MODEL "CV" (621944)

3¼"x4⅞"—8-Cylinder

A-17732 EE-22 Carburetor (Code No 4-1)

Std Part No	Special Part No	Used on Above Model Car
P-15456	P-16586	Throttle Stop Screw
P-15477	P-15477	No 46 Idle Air Bleeder
P-15554	P-19395	M B Attaching Screws
P-16941	P-19390	Main Body Gasket
P-17002	P-19714	Thro Valve Body, No 56-56 Idle Holes
P-17004	P-17004	053' Main Metering Jet
P-17018	P-19850	(5°) Throttle Valve)
P-17045	P-19392	Pump Rod
P-17582	P-19770	Choke Valve
P-18103	P-19387	Choke Stem and Pin
P-18111	P-19396	Fill Hd Screw (Air Horn)
P-18144	P-16990	Check Valve
P-18308	P-18408	Fast Idle Rod
P-18338	P-19840	No 28-36 Main Discharge Jet
P-18343	P19389	Throttle Lever and Stem
P-18344	P-19481	1' (No 53 Hole) By-Pass Jet
P-18347	P-19362	Air Horn (Complete)
P-18369	P-18100	Air Horn (Casting)
P-18522	P-20252	Main Body, 1-3/32' Venturi
P-18914	P-19867	Float Needle Valve and Seat Assembly
None Shown	P-19391	Main Body (Insulator) Gasket
None Shown	P-20242	No 65 H S Bleeder
None Shown	P-18852	No 71 Pump Discharge Nozzle
None Shown	P-3292	Pipe Plug

NOTE Throttle Valve Location Upper lip of Throttle Valve to be 040 plus or minus 004 below lower edge of upper idle hole
NOTE Fuel Level ⅝"
NOTE Pump Capacity 20 to 24 CC (Slow) and 17 to 21 CC (Fast) per 10 strokes (Minimum Setting)
NOTE Economizer Setting 21/64 plus or minus 1/64'
NOTE Slow Idle Screw 3 turns
NOTE Fast Idle Setting Set Fast Idle Screw for a Throttle opening of 016 to 020

CHRYSLER CORPORATION 1934 MODEL "CU" (631386)

3¼"x4⅞"—8-Cylinder

A-17862 EE-22 Carburetor (Code No 4-2)

St Part No	Special Part No	Used on Above Model Car
P-15456	P-16586	Thro Stop Screw
P-15477	P-15477	No 46 Idle Air Bleeder
P-15554	P-19395	M B Attach Screw
P-16941	P-19390	Main Body Gasket
P-17002	P-19714	Thro Valve Body No 56-56 Idle Holes
P-17004	P-17004	053' Main Metering Jet
P-17018	P-19850	Throttle Valve (5°)
P-17045	P-19392	Pump Rod
P-17582	P-19770	Choke Valve
P-18103	P-19387	Choke Stem and Pin
P-18111	P-19396	A Horn Attach Screw
P-18144	P-16990	Check Valve
P-18308	P-18408	Fast Idle Rod
P-18338	P-19840	No 28-36 Main Discharge Jet
P-18343	P-19389	Throttle Stem and Lever
P-18344	P-19481	By-Pass Jet
P-18347	P-19362	Air Horn (Complete)
P-18369	P-18100	Air Horn
P-18522	P-20252	Main Body 1-3/32' Venturi
P-18914	P-19867	Float Needle Valve and Seat
J 4363-G	J-4469-G	Complete Gasket Set
None Shown	P-19391	Gasket (Insulator)
None Shown	P-20242	No 65 H S Bleeder
None Shown	P-18852	No 71 Pump Discharge Nozzle
None Shown	P-3292	Plug

NOTE Throttle Valve Location Upper lip of Throttle Valve to be 040 plus or minus 004 below lower edge of upper idle hole
NOTE Fuel Level ⅝"
NOTE Pump Capacity 20 to 24 CC (Slow) and 17 to 21 CC (Fast) per 10 strokes (Minimum Setting)
NOTE Economizer Setting 21/64' plus or minus 1/64"
NOTE Slow Idle Screw 3 turns
NOTE Fast Idle Setting Set Fast Idle Screw for a Throttle opening of 016 to 020

CHRYSLER 1935 MODEL "C-2" (639181)

3¼"x4⅞"—8-Cylinder

A-17992 EE-22 Carburetor (Code No 4-6)

Std Part No	Special Part No	Used on Above Model Car
P 15390	P-19374	Pump Cotter Pin
P-15456	P-17890	Throttle Stop Screw
P-15477	P-15477	No 46 Idle Air Bleeder
P-16941	P-19390	Main Body Gasket
P-17002	P-20637	Thro Valve Body No 56-56 Idle Holes No 56 Vac Spark Hole 031" Above Valve
P-17004	P-17004	053 Main Metering Jet
P-17018	P-19850	(5°) Throttle Valve)
P-17045	P-19392	Pump Rod
P-17582	P-19770	Choke Valve
P-17997	P-18274	Fast Idle Lever
P-18103	P-19387	Choke Stem and Pin
P-18111	P-19396	Fill Hd Screw
P-18144	P-16990	Check Valve
P-18308	P-18408	Fast Idle Rod
P-18338	P-19840	No 28-36 Main Discharge Jet
P-18343	P-19389	Throttle Lever and Stem
P-18344	P-19481	(1 No 53 Hole) By-Pass Jet
P-18347	P-19362	Air Horn (Complete)
P-18369	P-18100	Air Horn (Casting)
P-18522	P-20252	Main Body 1-3/32' Venturi
Std Part No	Special Parts as Used On Above Model Car	
P-18914	P-20888	Float Needle Valve and Seat Assembly
None Shown	P-19391	Main Body (Insulator) Gasket
None Shown	P-19395	Fill Hd Screw (M B Attach)
None Shown	P-6406	Screw Plug (5/16-24)
None Shown	P-20242	No 65 H S Bleeder
None Shown	P-18852	No 71 Pump Discharge Nozzle
None Shown	P-3292	Pipe Plug

NOTE Throttle Valve Location Upper lip of Throttle Valve to be 040 plus or minus 004 below lower edge of upper idle hole
NOTE Fuel Level ⅝"
NOTE Pump Capacity 17 to 21 CC (Slow) and 14 to 18 CC (Fast) per 10 strokes (Minimum Setting)
NOTE Economizer Setting 21/64 plus or minus 1/64
NOTE Slow Idle Screw 3 turns
NOTE Fast Idle Setting Set Fast Idle Screw for a Throttle opening of 016 to 020
NOTE Pump Travel Setting Maximum (Oct 1 to Mar 31), Minimum (Apr 1 to Sept 30)

CHRYSLER 1935 MODEL "C-3" (640396)

3¼"x4⅞"—8-Cylinder

A-18002 EE-22 Carburetor (Code No 4-7)

Std Part No	Special Part No	Used on Above Model Car
P 15390	P-19374	Pump Cotter Pin
P-15456	P-17890	Throttle Stop Screw
P-15477	P-15477	No 46 Idle Air Bleeder
P-16941	P-19390	Main Body Gasket
P-17002	P-20637	Thro Valve Body, No 56-56 Idle Holes No 56 Vac Spark Hole 031" Above Valve
P-17004	P-17004	053" Main Metering Jet
P-17018	P-19850	(5°) Throttle Valve)
P-17045	P-19392	Pump Rod
P-17582	P-19770	Choke Valve
P-17997	P-18274	Fast Idle Lever
P-18103	P-19387	Choke Stem and Pin
P-18111	P-19396	Fill Hd Screw
P-18144	P-16990	Check Valve
P-18308	P-18408	Fast Idle Rod
P-18338	P-19840	No 28-36 Main Discharge Jet
P-18343	P-19389	Throttle Lever and Stem
P-18344	P-19481	(1 No 53 Hole) By-Pass Jet
P-18347	P-19362	Air Horn (Complete)
P-18369	P-18100	Air Horn (Casting)
P-18522	P-20252	Main Body 1-3/32' Venturi
P-18914	P-20888	Float Needle Valve and Seat Assembly
None Shown	P-19391	Main Body (Insulator) Gasket
None Shown	P-20242	No 65 H S Bleeder
None Shown	P-19395	Fill Hd Screw (M B Attach)
None Shown	P-18852	No 71 Pump Discharge Jet
None Shown	P-3292	Pipe Plug
None Shown	P-6404	Screw Plug (5/16-24)

NOTE Throttle Valve Location Upper lip of Throttle Valve to be 040 plus or minus 004 below lower edge of upper idle hole
NOTE Fuel Level ⅝"
NOTE Pump Capacity 17 to 21 CC (Slow) and 14 to 18 CC (fast) per 10 strokes (Minimum Setting)
NOTE Economizer Setting 21/64 plus or minus 1/64
NOTE Slow Idle Screw 3 turns
NOTE Fast Idle Setting Set Fast Idle Screw for a Throttle opening of 016 to 020
NOTE Pump Travel Setting Maximum (Oct 1 to Mar 31), Minimum (Apr 1 to Sept 30)

CHRYSLER CORP 1936-37 MODEL "C-10", "C 17" (657328)

3¼" x 4⅞"—8 Cylinders

A 18242 EE-22 Carburetor (Code No. 4-49)

Std Part No	Special Parts	Used on Above Model Car
P-15390	P-19374	Pump Cotter Pin
P-15477	P-15477	No 46 Idle Air Bleeder
P-15554	P-19395	Main Body Attach Screw
P-16941	P-19390	Main Body Gasket
P-17002	P-21727	Throttle Valve Body No 56-56 Idle Holes, No 56 Vac Spark Holes 031 Above Throttle Valve
P-17004	P-17004	053 Metering Jet
P-17018	P-19850	5° Throttle Valve
P-17045	P-21730	Pump Rod
P-17402	P-15478	Idle Needle Valve
P-17582	P-19770	Choke Valve
P-18103	P-21748	Choke Stem and Pin
P-18111	P-19396	Air Horn Attach Screw
P-18144	P-16990	Pump Check Valve
P-18308	P-21731	Fast Idle Rod
P-18338	P-19840	No 28-36 Main Discharge Jet
P-18343	P-21725	Throttle Lever and Stem
P-18344	P-19481	By Pass Jet (1 No 53)
P-18369	P-21729	Air Horn with Vent
P-18347	P 21728	Air Horn with Valve Complete
P-18522	P-21744	Main Body 1 3/32' Venturi and No 65 High Speed Bleeder
P-18914	P-20888	Fl Needle Valve and Seat
None Shown	P-19391	Main Body Gasket (Insulation)
None Shown	P-18852	No 71 Pump Discharge Nozzle
None Shown	P-19815	Fast Idle Rod Anti-Rattle Washer

NOTE Throttle Valve Location Upper Lip of Throttle Valve to be 040 Plus or Minus 004 Below Lower Edge of Upper Idle Holes
NOTE Fuel Level ⅝
NOTE Pump Capacity 17 21 CC (Slow) and 14-18 CC (Fast) per 10 Strokes (Max Setting)
NOTE Economizer Setting 21/64' Plus or Minus 1/64"
NOTE Pump Travel Setting Minimum
NOTE Slow Idle 3 Turns from Closed Throttle

SPECIFICATIONS OF STANDARD EQUIPPED PASSENGER CARS

PARTS AND SETTINGS EXCEPTIONS MODELS EE-22 STANDARD CARBURETOR (Continued)

CHRYSLER CORP 1936 MODEL 'C-11" (658652)

3¼" x 4⅞"—8 Cylinders

A-18262 EE-22 Carburetor (Code No 4-51)

Std Part No	Special Parts	Used on Above Model Car
P-15390	P-19374	Pump Cotter Pin
P-15477	P-15477	No 46 Idle Air Bleeder
P-15554	P-19395	Main Body Attach Screw
P-16941	P-19390	Main Body Gasket
P-17002	P-21727	Throttle Valve Body No 56 56 Idle Holes No 56 Vac Spark Holes 031 Above Throttle Valve
P-17004	P-17004	051 (A) Metering Jet
P-17018	P-19850	5° Throttle Valve (A)
P-17045	P-21730	Pump Rod
P-17582	P-19770	Choke Valve
P-18103	P-21748	Choke Stem and Pin
P-18111	P-19396	Air Horn Attach Screw
P-18144	P-16990	Pump Check Valve
P-18308	P-21731	Fast Idle Rod
P-18338	P-19840	No 28-36 Main Discharge Jet
P-18343	P-21725	Throttle Lever and Stem
P-18344	P-19481	By-Pass Jet (1 No 53)
P-18369	P-21729	Air Horn with Vent
P-18522	P-21744	Main Body 1 3/32 Venturi and No 65 High Speed Bleeder
P-18914	P-20888	Fl Needle Valve and Seat
None Shown	P-19391	Main Body Gasket (Insulator)
None Shown	P-18852	No 71 Pump Discharge Nozzle
None Shown	P-19815	Fast Idle Rod Anti-Rattle Washer

NOTE Throttle Valve Location Upper Lip of Throttle Valve to be 040 Plus or Minus 004 Below Lower Edge of Upper Idle Holes

NOTE Fuel Level ⅝

NOTE Pump Capacity 17 to 21 CC (Slow) and 14 to 18 CC (Fast) Per 10 Strokes (Max Setting)

NOTE Economizer Setting 21/64 Plus or Minus 1/64

NOTE Pump Travel Setting Minimum

NOTE Slow Idle 3 Turns from Closed Throttle

HUPP MOTOR CAR CORP 1934 35 MODEL 'T"-"O" (89021)

3³⁄₁₆' x4¾"—6-Cylinder

A-17832 EE-22 Carburetor (Code No 19-3)

(Fast Idle Omitted)

Std Part No	Special Part No	Used on Above Model
P-17004	P-17004	053 Metering Jet
P-17582	P-17070	Air Horn Valve
P-18103	P-17224	Choke Lever and Stem
P-18110	P-17053	Choke Lever
P-18144	P-16990	Check Valve
P-18264	P-17007	Idle Tube No 70 Feed Hole
P-18338	P-18413	Main Discharge Jet No 28-36
P-18343	P-19998	Throttle Lever and Stem
P-18344	P-18149	By-Pass Jet
P-18347	P-18478	Air Horn (Complete)
P-18369	P-18486	Air Horn
P-18522	P-18882	Main Body 1 3/32 Venturi No 65 H S Bleeder
P-18914	P-19867	Float Needle Valve and Seat
None Shown	P-4	Cotter Pin
None Shown	P-16426-F	Choke Stem Washer
None Shown	P-17067	Choke Tube Holder
None Shown	P-17068	Choke Return Spring
None Shown	P-17093	Tube Holder Attach Screws
None Shown	P-17828-F	Vent
None Shown	P-18351	Vent Screw
None Shown	P-18852	Pump Discharge Nozzle No 74
None Shown	P-17059	Choke Lever Fulcrum Screw
None Shown	P-17058	Choke Bushing
None Shown	P-17132	Choke Spring

NOTE Throttle Valve Location Upper lip of Thro Valve to be 030 plus or minus 004 below lower edge of upper idle hole

NOTE Pump Capacity 20 to 24 CC (Slow) and 17 to 21 CC (Fast) per 10 strokes (Maximum Setting)

NOTE Pump Stroke Setting Minimum April 1st to Sept 30th Maximum Oct 1st to March 31st

NOTE Fuel Level ⅝"

LINCOLN 1933-34 MODEL "LIGHT 12"

3"x4½"—12-Cylinder

A-17372 EE-22 Carburetor (Code No 40-1)

(Fast Idle Omitted)

Std Part No	Special Part No	Used on Above Model Car
P-3157	P-3157-G	Lockwasher
P-6668	P-6668-G	Lockwasher
P-12400	P-16426	Choke Stem Washer
P-15477	P-15477-K	No 46 Idle Air Bleeder
P-16161 P-17081	P-4	Cotter Pin
P-17002	P-18481	Thro Valve Body No 56-60 Idle Holes
P-17004	P-17004	057′ Main Metering Jet
P-17402	P-17402-K	Idle Needle Valve
P-17582	P-17070	Choke Valve
P-18103	P-18562	Choke Lever and Stem
P-18144	P-16990	Check Valve (Pump)
P-18264	P-17007	Idle Tube, No 70 Feed Hole
P-18338	P-18483	No 36 Main Discharge Jet
P-18343	P-18485	Throttle Levers and Stem
P-18344	P-19481	(1 No 53) Hole By-Pass Jet
P-18347	P-18566	Air Horn (Complete)
P-18369	P-18564	Air Horn (Casting)
P-18522	P-21572	Main Body 1 3/32 Venturi 65 H S Bleeder
P-18914	P-19547-K	Float Needle Valve and Seat Assy
None Shown	P-18848	Choke Tube Holder
None Shown	P-17093	Choke Tube Holder Screws
None Shown	P-18563	Choke Valve Return Spring
None Shown	P-17442	Pump Lever Housing
None Shown	P-11531	Pump Lever Housing Screw
None Shown	P-18480	Throttle Return Spring
None Shown	P-18852	No 70 Pump Discharge Nozzle
None Shown	P-19769	Washer
None Shown	P-3292-K	Pipe Plug
None Shown	P-18559	Choke Lever
None Shown	P-18558	Choke Lever Torsion Spring
None Shown	P-17058	Choke Lever Bushing
None Shown	P-17059	Choke Lever Screw

NOTE Throttle Valve Location Upper lip of Throttle Valve to be 030 plus or minus 004 below lower edge of upper idle hole

NOTE Fuel Level ⁹⁄₁₆

NOTE Pump Capacity 20 to 24 CC (Slow) and 17 to 21 CC (Fast) per 10 strokes (Maximum Setting)

NOTE Slow Idle 2 turns from closed throttle

NOTE Economizer Setting 21/64 plus or minus 1/64

NOTE Pump Travel Setting Maximum

LINCOLN 1934 "251 SERIES" (KB-2150-E)

3¼"x4½ —12-Cylinder

A-17692 EE-22 Carburetor (Code No 40-2)

(Fast Idle Omitted)

Std Part No	Special Part No	Used on Above Model Car
P-12400	P-16426	Choke Stem Washer
P 15477	P-15477-L	No 46 Idle Air Bleed
P-16161 P-17081	P-4-L	Cotter Pin
P-16976	P-19469	Pump Lever
P-17002	P-18481	Throttle Valve Body No 56 60 Idle Hole
P-17004	P-17004	057 Main Metering Jet
P-17582	P-17070	Choke Valve
P-17966	P-18564	Air Horn Casting
P-18103	P-18562-L	Choke Lever and Stem
P-18144	P 16990	Pump Check Valve
P-18264	P-17007	Idle Tube No 70 Feed Hole
P-18338	P-18483	No 36 Main Discharge Jet
P-18343	P-19468	Throttle Lever and Stem
P-18344	P-19481	(1 No 53) Hole By-Pass Jet
P-18522	P-21572	Main Body 1 3/32 Venturi No 65 H S Bleeder
P-18914	P-19843-L	Float Needle Valve and Seat Assy
None Shown	P-18563	Choke Valve Return Spring
None Shown	P-17093-L	Choke Tube Holder Attach Screw
None Shown	P-18848-L	Choke Tube Holder
None Shown	P-18852	No 70 Pump Discharge Nozzle
None Shown	P-17442	Pump Lever Housing
None Shown	P-11531-L	Pump Lever Housing Screw
None Shown	P-18480-L	Throttle Lever Return Spring
None Shown	P-3292-L	Pipe Plug
None Shown	P-19769	Washer
None Shown	P-18559-L	Choke Lever
None Shown	P-18558-L	Choke Lever Spring
None Shown	P-17058-L	Choke Lever Bushing
None Shown	P-17059	Choke Lever Bushing Screw

NOTE All external parts of this carburetor are polished Nickel When ordering parts be sure to specify accordingly

NOTE Throttle Valve Location Upper lip of Throttle Valve to be 030 plus or minus 004 below lower edge of upper idle hole

NOTE Fuel Level ⁹⁄₁₆

NOTE Pump Capacity 20 to 24 CC (Slow) and 17 to 21 CC (Fast) per 10 strokes (Maximum Setting)

NOTE Slow Idle 2 turns from closed throttle

NOTE Economizer Setting 21/64 plus or minus 1/64

NOTE Pump Travel Setting Maximum

SPECIFICATIONS OF STANDARD EQUIPPED PASSENGER CARS

PARTS AND SETTINGS EXCEPTIONS MODEL EE-22 STANDARD CARBURETOR (Continued)

LINCOLN 1934 MODEL "KA AND KB' (K-2150-F)

3⅛"x4½ —12-Cylinder

A-17762 EE-22 Carburetor (Code No 40-3)

(Fast Idle Omitted)

Std Part No	Special Part No	Used on Above Model Car
P-3157	P-3157-G	Lock Washers
P-6668	P-6668-G	Lock Washer
P-12400	P-16426	Choke Stem Washer
P-15477	P-15477-K	No 46 Idle Air Bleed
P-16161 P-17081	P-4	Choke Stem Cotter Pin
P-17002	P-18481	Throttle Valve Body No 56-60 Idle Holes
P-17004	P-17004	057 Main Metering Jet
P-17042	P-19709	Pump Spring
P-17939	P-17939	Fulcrum Screw
P-17402	P-17402-K	Idle Needle Valve
P-17582	P-17070	Choke Valve
P-18103	P-18562	Choke Lever and Stem
P-18130	P-18130-K	Main Metering Jet Plug
P-18144	P-16990	Check Valve
P-18264	P-17007	Idle Tube No 70 Feed Hole
P-18338	P-19364	No 28 36 Main Discharge Jet
P-18343	P-18485	Throttle Lever and Stem
P-18344	P-19481	(1 No 53) Hole By-Pass Jet
P-18347	P-18566	Air Horn (Complete)
P-18369	P-18564	Air Horn (Casting)
P-18522	P-18482	Main Body 1 3/16 Venturi No 65 H S Bleeder
P-18914	P-19547	Float Needle Valve and Seat Assy
None Shown	P-18848	Choke Tube Holder
None Shown	P-17093	Choke Tube Holder Screws
None Shown	P-18563	Choke Valve Return Spring
None Shown	P-18852	No 67 Pump Discharge Nozzle
None Shown	P-17442	Pump Lever Housing
None Shown	P-11531	Pump Lever Housing Screw
None Shown	P-18480	Throttle Lever Torsion Spring
None Shown	P-3292-K	Pipe Plug
None Shown	P-19769	Washer
None Shown	P-18559	Choke Lever
None Shown	P-18558	Choke Lever Torsion Spring
None Shown	P-17058	Choke Lever Bushing
None Shown	P-17059	Choke Lever Bushing Screw

NOTE Throttle Valve Location Upper lip of Throttle Valve to be 030 plus or minus 004 below lower edge of upper idle hole

NOTE Fuel Level 9/16

NOTE Pump Capacity 20 to 24 CC (Slow) and 17 to 21 CC (Fast) per 10 strokes (Maximum Setting)

NOTE Slow Idle 2 turns from closed throttle

NOTE Economizer Setting 21/64 plus or minus 1/64

NOTE Pump Travel Setting Maximum

LINCOLN 1935 MODEL 'K' (K-2150-H)

3⅛"x4½ —12-Cylinder

A-18042 EE-22 Carburetor (Code No 40-4)

(Fast Idle Omitted)

Std Part No	Special Part No	Used on Above Model Car
P-3157	P-3157-G	Lockwasher
P-6668	P-6668-G	Lockwasher
P-15390	P-19374	Pump Cotter Pin
P-15477	P-15477-K	No 46 Idle Air Bleeder
P-16161	P-4	Cotter Pin
P-17002	P-20680	Throttle Valve Body No 56 60 Idle Holes
P-17004	P-17004	058 Main Metering Jet
P-17081	P-16426	Choke Stem Washer
P 17402	P-17402-K	Idle Needle Valve
P-17582	P-17070	Choke Valve
P-17939	P-17939-K	Float Fulcrum Screw
P-17966	P-18564	Air Horn (Casting)
P-18103	P-18562	Choke Stem and Stop
P-18144	P-16990	Check Valve
P-18130	P-18130-K	Main Metering Jet Plug
P-18264	P-17007	Idle Tube No 70 Feed Hole
P-18338	P-19364	No 28-36 Main Discharge Jet
P-18343	P-20678	Throttle Lever and Stem
P-18344	P-19481	(1 No 53) Hole By-Pass Jet
P-18347	P-18566	Air Horn (Comp)
P-18522	P-18482	Main Body 1 3/16 Venturi No 65 H S Bleeder
P-18914	P-18914-K	Float Needle Valve and Seat Assy
None Shown	P-18848	Choke Tube Holder
None Shown	P-17093	Choke Tube Holder Screws
None Shown	P-18563	Choke Stem Spring
None Shown	P-6387-F	Screw Plug (10-32)
None Shown	P-18852	No 67 Pump Discharge Jet
None Shown	P-17442	Pump Lever Housing
None Shown	P-11531	Pump Lever Housing Screw (No 10-32)
None Shown	P-18480	Throttle Lever Spring
None Shown	P-3292-K	Pipe Plug
None Shown	P-19769	Throttle Stem Washer
None Shown	P-20677	Throttle Tube Holder
None Shown	P-15346-G	Lockwasher
None Shown	P-20669-K	Throttle Loose Lever
None Shown	P-19719	Loose Lever Stop
None Shown	P-19723	Loose Lever Stop Spring
None Shown	P-19720	Groove Pin
None Shown	P-20679	Washer
None Shown	P-18559	Choke Lever
None Shown	P-18558	Choke Torsion Spring
None Shown	P-17058	Choke Lever Bushing
None Shown	P-17059	Choke Lever Bushing Screw
None Shown	P-20889	Stop Screw

NOTE Throttle Valve Location Upper lip of Throttle Valve to be 030 plus or minus 004 below lower edge of upper idle hole

NOTE Fuel Level 9/16

NOTE Pump Capacity 20 to 24 CC (Slow) and 17 to 21 CC (Fast) per 10 strokes (Maximum Setting)

NOTE Slow Idle 2 turns from closed throttle

NOTE Economizer Setting 21/64 plus or minus 1/64

NOTE Pump Travel Setting Maximum

LINCOLN 1936 MODEL "K" (K-2150-K)

3⅛"x4½"—12 Cylinder

A 18282 EE-22 Carburetor (Code No 40-13)

Std Part No	Special Parts	Used on Above Model Car
P-15390	P-19374	Pump Cotter Pin
P-15477	P-15477-K	No 44 Idle Air Bleeder
P-17002	P-20680	Thro Valve Body with No 56-60 Idle Holes
P-17004	P-17004	056 Metering Jet
P-17582	P-17070	Choke Valve
P-18103	P-18562	Choke Stem and Stop
P-18144	P-16990	Pump Check Valve
P 18264	P-17007	Idle Tube No 70 Feed Hole
P-18338	P-21799	No 28 32 Main Discharge Jet
P-18343	P-20678	Throttle Lever and Stem
P-18344	P-18149	By-Pass Jet (4-No 56)
P-18347	P-18566	Air Horn with Valve Complete
P-18369	P-18564	Air Horn
P-18522	P-18482	Main Body with 1 3/16 Venturi and No 70 High Speed Bleeder
None Shown	P-18852	No 65 Pump Nozzle
None Shown	P-17442	Pump Lever Housing
None Shown	P-11531	Housing Tube Holder Attach Screw
None Shown	P-15346-G	Housing Tube Holder Screw Lockwasher
None Shown	P-18480	Throttle Return Torsion Spring
None Shown	P-19769	Throttle Return Spring Washer
None Shown	P-3292-K	Pipe Plug
None Shown	P-20677	Throttle Tube Holder
None Shown	P-20669	Throttle Loose Lever
None Shown	P-21346	Throttle Loose Lever Stop
None Shown	P-20889	Throttle Loose Lever Stop Screw
None Shown	P-19723	Throttle Loose Lever Stop Spring
None Shown	P-19720	Throttle Stop Grovoe Pin
None Shown	P-18848	Choke Tube Holder
None Shown	P-17093	Choke Tube Holder Attach Screw
None Shown	P-4	Choke Stem Cotter Pin
None Shown	P-16426-F	Choke Stem Washer
None Shown	P-18563	Choke Valve Return Spring
None Shown	P-18559	Choke Lever
None Shown	P-17059	Choke Lever Fulcrum Screw
None Shown	P-17058	Choke Lever Fulcrum Screw Bushing
None Shown	P-18558	Choke Lever Torsion Spring

NOTE Throtle Valve Location Upper Lip of Throttle Valve to be 030 Plus or Minus 004 Below Lower Edge of Upper Idle Hole

NOTE Fuel Level 9/16

NOTE Pump Travel Setting Maximum

NOTE Slow Idle 2 Turns from Closed Throttle

NOTE Pump Capacity 20 24 CC (Slow) and 17 to 21 CC (Fast) per Ten Strokes (Maximum Setting)

NOTE Economizer Setting 21/64 Plus or Minus 1/64

NASH 1934 MODEL "1280" (45048)

3⅛"x4¼"—8-Cylinder

A-17622 EE 22 Carburetor

(Fast Idle Omitted)

Std Part No	Special Part No	Used on Above Model Car
P-12400	P-16426-F	Choke Stem Washer
P-15481	P-18710	Idle Needle Valve Spring
P-16161 P-17081	P-4	Choke Stem Cotter Pin
P-17004	P-17004	050 Main Metering Jet
P-17582	P-17070	Choke Valve
P-17966	P-18486	Air Horn (Casting)
P-18103	P-17224	Choke Stem and Lever
P-18144	P-16990	Check Valve
P-18264	P-17007	Idle Tube
P-18338	P-17969	No 36 Main Discharge Jet
P-18343	P-17078	Throttle Lever and Stem
P-18344	P-18149	By Pass Jet
P-18347	P-19182	Air Horn (Complete)
P-18522	P-18882	Main Body 1 1/32 Venturi No 70 H S Bleeder
None Shown	P-17391	Choke Tube Holder
None Shown	P-17068	Choke Valve Return Spring
None Shown	P-17093	Choke Tube Holder Screws
None Shown	P-18852	No 71 Pump Discharge Nozzle
None Shown	P-3292	Pipe Plug
None Shown	P-17053	Choke Lever
None Shown	P-17058	Choke Lever Bushing
None Shown	P-17059	Choke Lever Bushing Screw
None Shown	P-17132	Choke Lever Spring

NOTE Slow Idle 2¼ turns from closed position

NOTE Throttle Valve Location Upper lip of Throttle Valve to be 030 plus or minus 004 below lower edge of upper idle hole

NOTE Pump Capacity 20 to 24 CC (Slow) and 17 to 21 CC (Fast) per ten strokes (Maximum Setting)

NOTE Pump Stroke Setting Minimum, April 1st to Sept 30th Maximum Oct 1st to March 31st

NOTE Fuel Level 9/16

SPECIFICATIONS OF STANDARD EQUIPPED PASSENGER CARS
PARTS AND SETTINGS EXCEPTIONS MODEL EE-22 STANDARD CARBURETOR (Continued)

NASH 1935 MODEL "3580" (47150-A)
3⅛"x4¼"—8-Cylinder
A-18062 EE-22 Carburetor

Std Part No	Special Part No	Used on Above Model Car
P-15390	P-19374	Pump Cotter Pin
P-15481	P-18710	Idle Needle Valve Spring
P-16161	P-4	Choke Stem Cotter Pin
P-17004	P-17004	050′ Main Metering Jet
P-17081	P-16426	Choke Stem Washer
P-17582	P-17070	Choke Valve
P-17966	P-18486	Air Horn Casting
P-18103	P-17224	Choke Stem and Stop
P-18144	P-16990	Check Valve
P-18264	P-17007	Idle Tube No 70 Feed Hole
P-18338	P-17969	No 36 Nain Discharge Jet
P-18343	P-20779	Throttle Lever and Stem
P-18344	P-18149	By-Pass Jet
P-18347	P-19182	Air Horn (Complete)
P-18522	P-18882	Main Body $1\frac{1}{32}$" Venturi, No 70 H S Bleeder
None Shown	P-6387-F	Screw Plug (10-32)
None Shown	P-17093	Tube Holder Screws
None Shown	P-17391	Tube Holder
None Shown	P-17068	Choke Stem Spring
None Shown	P-18852	No 71 Pump Discharge Nozzle
None Shown	P-3292	Pipe Plug
None Shown	P-17053	Choke Lever
None Shown	P-17059	Choke Lever Fulcrum Screw
None Shown	P-17058	Choke Lever Bushing
None Shown	P-17132	Choke Lever Spring

NOTE Pump Capacity 17 to 22 CC (Max Pump Travel) per 10 strokes

NOTE Pump Travel Max between Oct 1st to March 31st Min between April 1st to Sept 30th

NOTE Economizer Setting ¼" plus or minus 1/64"

NOTE Throttle Valve Location Upper lip of throttle valve to be 030 plus or minus 004′ below lower edge of upper idle hole

NOTE Fuel Level ⅝′

PACKARD 1933 "STANDARD 8" (210178)
$3\frac{3}{16}$"x5"—8-Cylinder Engine
A-17282 EE-22 Carburetor (Code No 10-5)

Std Part No	Special Part No.	Used on Above Model Car
P-15477	P-15477-K	No 42 Idle Air Bleeder
P-17004	P-17004	055" Main Metering Jet
P-17073	P-18388	Pump Piston and Stem
P-17081	P-17081-K	Choke Stem Collar
P-17402	P-17402-K	Idle Needle Valve
P-17582	P-18383	Choke Valve
P-17828-F	P-18716	Air Horn Vent Cap
P-17939	P-17939-K	Float Fulcrum Screw
P-17987	P-18274	Fast Idle Kick Lever
P-18103	P-18381-K	Choke Stem and Pin
P-18110	P-18908	Fast Idle Lever
P-18130	P-18130-K	Main Metering Jet Plug
P-18144	P-16990	Check Valve
P-18264	P-17007	Idle Tbue No 70 Feed Hole
P-18522	P-18882	Main Body, 1-3/32′ Venturi, No 65 High Speed Bleeder
P-18338	P-17993	No 36 Main Discharge Jet
P-18343	P-18411	Throttle Lever and Stem
P-18347	P-18377	Air Horn (Complete)
P-18344	P-18149	By-Pass Jet
P-18369	P-18717	Air Horn (Casting)
P-18914	P-19547-K	Float Needle Valve and Seat
None Shown	P-2369	Air Horn Vent Screw
None Shown	P-12167	Air Horn Vent Screw Washer
None Shown	P-18852	No 70 Pump Discharge Jet
None Shown	P-3292-K	Pipe Plug
None Shown	P-18886	Fast Idle Rod Spring

NOTE Throttle Valve Location Upper lip of throttle valve to be 030 plus or minus 004 below lower edge of upper idle hole

NOTE Pump Capacity 20 to 24 (Slow) and 17 to 21 (Fast) per 10 strokes (Maximum setting)

NOTE Economizer Setting 21/64" plus or minus 1/64"

NOTE Fuel Level $\frac{9}{16}$"

NOTE Slow Idle Screw 1¾ turn from closed position of throttle valve

NOTE Fast Idle Set Screw To be 1¾ turn beyond point of contact with throttle valve fully closed

NOTE Pump Travel Setting Maximum

PACKARD 1933 "SUPER 8" (210179)
3½"x5"—8 Cylinder Engine
A-17312 EE-22 Carburetor (Code No 10-6)

Std Part No.	Special Part No	Used on Above Model Car
P-9394	P-9394-K	Pump Stem Washer
P-15477	P-15477-K	No 42 Idle Air Bleed
P-17004	P-17004	060′ Main Metering Jet
P-17018	P-17018	Throttle Valve
P-17073	P-18388	Pump Piston and Stem
P-17081	P-17081-K	Choke Stem Collar
P-17402	P-17402-K	Idle Needle Valve
P-17582	P-18383	Choke Valve
P-17828-F	P-18716	/Float Chamber Vent Cap
P-17939	P-17939-K	Float Fulcrum Screw
P-17997	P-18274	Fast Idle Kick Lever
P-18103	P-19381-K	Choke Stem and Pin
P-18110	P-18908	Fast Idle Lever
P-18130	P-18130-K	Main Metering Jet Plug
P-18144	P-16990	Pump Check Valve
P-18264	P-17007	Idle Tube, No 70 Feed Hole
P-18338	P-17993	No 36 Main Discharge Jet
P-18343	P-18411	Throttle Lever and Stem
P-18344	P-18149	By-Pass Jet
P-18347	P-18377	Air Horn (Complete)
P-18369	P-18717	Air Horn (Casting)
P-18522	P-18882	Main Body, $1\frac{3}{16}$" Venturi No 70 High Speed Bleeder
P-18914	P-19547	Float Needle Valve and Seat Assembly
None Shown	P-2369	Float Chamber Vent Cap Screw
None Shown	P-12167	Float Chamber Vent Cap Screw Lockwasher
None Shown	P-18852	No 70 Pump Discharge Nozzle
None Shown	P-3292-K	Pipe Plug

NOTE Throttle Valve Location Upper lip of Thro Valve to be 030 plus or minus 004 below lower edge of upper idle hole

NOTE Pump Capacity 20 to 24 CC (Slow) and 17 to 21 CC (Fast) per 10 strokes (Maximum setting)

NOTE Economizer Setting 21/64 plus or minus 1/64"

NOTE Fuel Level $\frac{9}{16}$"

NOTE Slow Idle Screw 1¾ turn from closed position of Throttle Valve

NOTE Fast Idle Set Screw To be 1¾ turn beyond point of contact with Throttle Valve fully closed

NOTE Pump Travel Setting Maximum

STEWART TRUCK 1933 MODEL "38-8," "48-8" (C-27721)
3¾"x4-3/4′—8-Cylinder Engine
A-16552 EE-22 Carburetor (Code No. 28-7)
(Fast Idle Omitted)

Std Part No	Special Part No	Used on Above Model Trucks
P-12400	P-16426-F	Choke Stem Washer
P-15390	P-19374	Pump Cotter Pin
P-15477	P-15477	No 50 Idle Air Bleed
P-17081 P-16161	P-4	Cotter Pin
P-17004	P-17004	055" Main Metering Jet
P-17582	P-17070	Choke Valve
P-17966	P-18486	Air Horn (Casting)
P-18103	P-17224	Choke Stem and Lever
P-18144	P-16990	Pump Check Valve
P-18264	P-17007	Idle Tube, No 70 Feed Hole
P-18338	P-17969	No 36 Main Discharge Jet
P-18343	P-18909	Throttle Lever and Stem
P-18344	P-18149	By-Pass Jet
P-18347	P-18478	Air Horn (Complete)
P-18522	P-18882	Main Body, 1-3/32" Venturi, No 70 H S Bleeder
None Shown	P-17067	Choke Tube Holder
None Shown	P-17093	Choke Tube Holder Attch Screw
None Shown	P-17068	Choke Valve Return Spring
None Shown	P-18852	No 72 Pump Discharge Nozzle
None Shown	P-3292	Pipe Plug
None Shown	P-17053	Choke Lever
None Shown	P-17059	Choke Lever Fulcrum Screw
None Shown	P-17058	Choke Lever Bushing
None Shown	P-17132	Choke Lever Return Spring

NOTE Pump Capacity 20 to 24 CC (Slow) and 17 to 21 CC (Fast) per 10 strokes (Maximum setting)

NOTE Fuel Level $\frac{9}{16}$

NOTE Economizer Setting 21/64′ plus or minus 1/64′

NOTE Pump Travel Setting Maximum

STUDEBAKER PRESIDENT 1932-33 MODEL "92" (178246)
3½"x4⅜"—8-Cylinder Engine
A-17002 EE-22 Carburetor (Code No 6-12)

Std Part No	Special Part No	Used on Above Model Car
P-15477	P-15477	No 46 Idle Air Bleeder
P-15481	P-18710	Idle Needle Valve Spring
P-17002	P-17002	Throttle Valve Body, No 60 Idle Hole
P-17004	P-17004	062′ Main Metering Jet
P-17582	P-17070	Choke Valve
P-17828-F	P-17828	Float Chamber Vent Cap
P-17997	P-18274	Fast Idle Kick Lever
P-18144	P-16990	Pump Check Valve
P-18264	P-17007	Idle Tube
P-18338	P-17993	No 36 Main Discharge Jet
P-18343	P-17941	Throttle Lever and Stem
P-18344	P-18149	By-Pass Jet
P-18347	P-17944	Air Horn (Complete)
P-18522	P-21582	Main Body, $1\frac{3}{16}$′ Venturi No 70 H S Bleeder
P-18369	P-18100	Air Horn (Casting)
None Shown	P-18852	No 70 Pump Discharge Nozzle
None Shown	P-3292	Pipe Plug

NOTE Throttle Valve Location Upper lip of Thro Valve to be 030 plus or minus 004 below lower edge of upper idle hole

NOTE Pump Capacity 20 to 24 CC (Slow) and 17 to 21 CC (Fast) per 10 strokes (Maximum setting)

NOTE Pump Stroke Setting Minimum

NOTE Economizer Setting 21/64" plus or minus 1/64

NOTE Fuel Level $\frac{9}{16}$′

NOTE Slow Idle Screw 1¾ turn from closed position of Throttle Valve

NOTE Fast Idle Screw to be 1¾ turns beyond point of contact with Throttle Valve fully closed

SPECIFICATIONS OF STANDARD EQUIPPED PASSENGER CARS

PARTS AND SETTINGS EXCEPTIONS MODEL EE-22 STANDARD CARBURETOR (Continued)

STUDEBAKER 1932-33 DICT. & COM. MODELS "62" & "73" (178931)
1934 MODEL PRESIDENT "C"
$3\frac{1}{16}$"x4"—8-Cylinder Engine
A-17022 EE-22 Carburetor (Code No. 6-4)

Std. Part No.	Special Part No.	Used on Above Model Cars
P-15456	P-16586	Throttle Stop Screw
P-15481	P-18710	Idle Needle Valve Spring
P-17002	P-17002	Thro. Valve Body, No. 60 Idle Hole
P-17004	P-17004	.052" Main Metering Jet
P-17582	P-17070	Choke Valve
P-17828-F	P-17828	Float Chamber Vent Cap
P-17997	P-18274	Fast Idle Kick Lever
P-18144	P-16990	Pump Check Valve
P-18264	P-17007	Idle Tube, No. 70 Feed Hole
P-18338	P-17969	No. 36 Main Discharge Jet
P-18343	P-17941	Throttle Lever and Stem
P-18344	P-18149	By-Pass Jet
P-18347	P-17944	Air Horn (Complete)
P-18369	P-18100	Air Horn (Casting)
P-18522	P-21582	Main Body, $1\frac{1}{32}$" Venturi, No. 70 H. S. Bleed
None Shown	P-18852	No 74. Pump Discharge Jet
None Shown	P-3292	Pipe Plug

NOTE: Throttle Valve Location: Upper lip of Thro. Valve to be .030 plus or minus .004 below lower edge of upper idle hole.

NOTE: Pump Capacity: 18 to 22 CC (Slow) and 14 to 18 CC (Fast) per 10 strokes (Maximum setting).

NOTE: Pump Stroke Setting: Minimum.

NOTE: Fuel Level: ⅝".

NOTE: Slow Idle Screw: 2¼ turns from closed position of Throttle Valve.

NOTE: Fast Idle Screw: To be 1¾ turn beyond point of contact with Throttle Valve fully closed.

REPLACEMENT EQUIPMENT

PARTS AND SETTINGS EXCEPTIONS MODELS EE-22 STANDARD CARBURETORS

(Passenger Cars)

CORD 1930 MODEL
3¼ x4½"—8-Cylinder Lycoming Engine
J-4293 EE-22 Carburetor

Std Part No.	Special Part No.	Used on Above Model Car
P-14346	P-6202	Main Body Plugs
P-15477	P-15477	No 46 Idle Air Bleed
P-15481	P-10710	Idle Needle Valve Springs
P-17002	P-17002	Thro Valve Body with No 60 Idle Hole
P-17004	P-17004	062" Metering Jet
P-17582	P-17070	Choke Valve
P-18144	P-16990	Check Valve
P-18264	P-17007	Idle Tube, No 70 Feed Hole
P-18338	P-17993	No 36 Main Discharge Jet
P-18343	P-17941	Throttle Lever and Stem
P-18344	P-18149	By-Pass Jet
P-18345	P-6406	Main Body Plugs
P-18347	P-17944	Air Horn Assembly (Complete)
P-18369	P-18100	Air Horn
P-18522	P-17932	Main Body with 1 3/16" Venturi and No 70 H S Bleeder
None Shown	P-18852	No 70 Pump Discharge Nozzle
None Shown	P-3292	Pipe Plug

NASH 1932 MODEL "1070"
3"x4⅜"—8 Cylinder
J-4642 EE-22 Carburetor

Std Part No.	Special Parts	Used on Above Model Car
P-12400	P-16426-F	Choke Stem Washer
P-15481	P-18710	Idle Needle Valve Spring
P-16161	P-4	Choke Stem Cotter Pin
P-17081		
P-17004	P-17004	050" Main Metering Jet
P-17582	P-17070	Choke Valve
P-17966	P-18486	Air Horn (Casting)
P-18103	P-17224	Choke Stem and Lever
P-18144	P-16990	Check Valve
P-18264	P-17007	Idle Tube
P-18338	P-17969	No 36 Main Discharge Jet
P-18343	P-17221	Throttle Lever and Stem
P-18344	P-18149	By-Pass Jet
P-18347	P-19182	Air Horn (Complete)
P-18522	P-18882	Main Body 1 1/32" Venturi, No 70 High Speed Bleeder
None Shown	P-17391	Choke Tube Holder
None Shown	P-17068	Choke Valve Return Spring
None Shown	P-17093	Choke Tube Holder Screws
None Shown	P-18852	No 71 Pump Discharge Nozzle
None Shown	P-3292	Pipe Plug
None Shown	P-17053	Choke Lever
None Shown	P-17058	Choke Lever Bushing
None Shown	P-17059	Choke Lever Bushing Screw
None Shown	P-17132	Choke Lever Spring

NOTE Slow Idle 2¼ Turns from Closed Position

NOTE Throttle Valve Location Upper Lip of Throttle Valve to be 030" Plus or Minus 004" Below Lower Edge of Upper Idle Hole

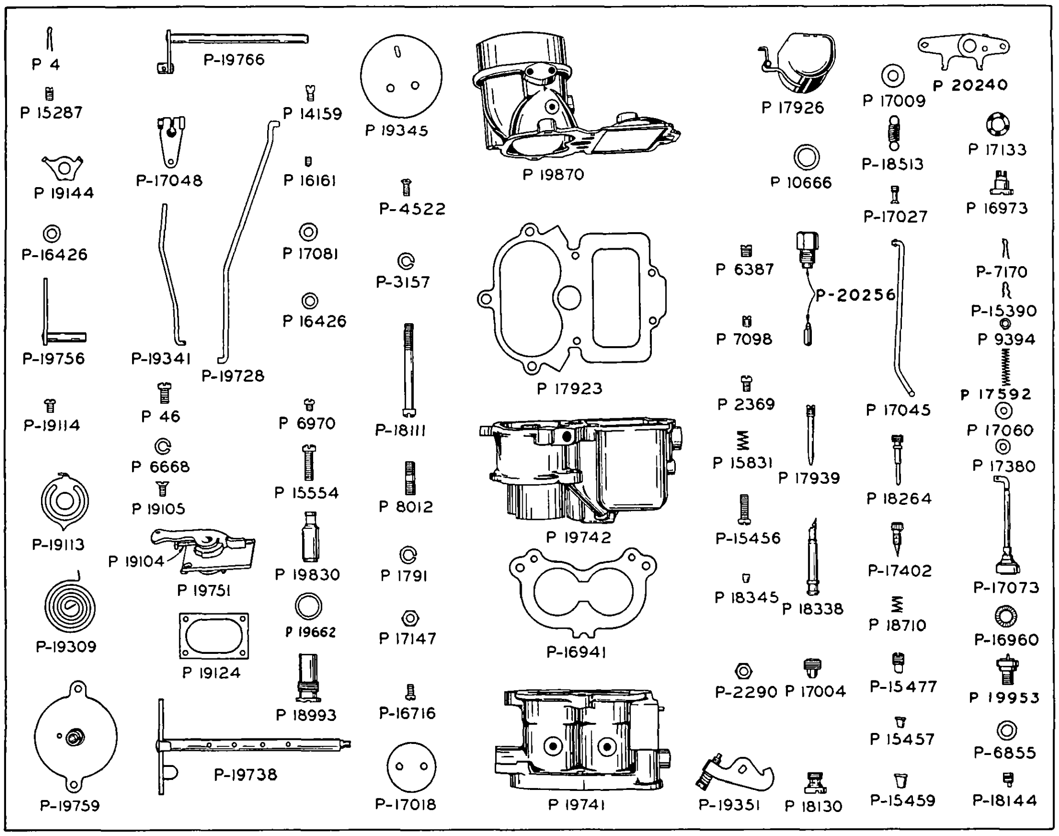
NOTE Pump Capacity 20 to 24 CC (Slow) and 17 to 21 CC (Fast) per Ten Strokes (Maximum Setting)

NOTE Pump Stroke Setting Minimum, April 1st to Sept 30th Maximum, Oct 1st to March 31st

NOTE Fuel Level ⅝"

OLDSMOBILE 1932 MODEL "L-32"
3"x4¼"—8 Cylinders
J-4620 EE-22 Carburetor (Code No. 5-23)

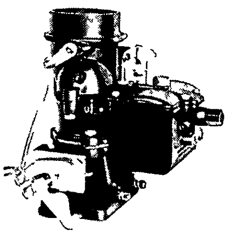
Std Part No.	Special Parts	Used on Above Model Car
P-15477	P-15477	No 50 Idle Air Bleeder
P-17004	P-17004	052" Metering Jet
P-18110	P-17048	Choke Lever



EE-23

N . A-17782

1¼ DUAL CARB



Notes and References.

Car models having this carburetor with parts exceptions therefor are shown on back of this page

†These parts not illustrated

‡Indicates Sub assembly part

PARTS LIST STROMBERG MODEL EE-23 CARBURETOR (as used on 1934 LaSalle)

Part No	Name	
P-4	Thermostat Stem Washer Cotter Pin	
P-4	Fast Idle & Cotter Pin	
P-46	Float Chamber Attach Screw	
P-1791	Fast Idle Stop Lever Nut Lockwasher	
P-2290	Fast Idle Stop Lever Nut	
P-2369	Automatic Choke Piston Stop Screw	
P-3157	Main Body & Air Horn Att Screw Lockwasher	
P-4522	Choke Valve Att Screw	
P-6387	Fast Idle Boss Plug	
P-6387	Idle Channel Screw Plug	
P-6668	Float Chamber Att Screw Lockwasher	
P-6855	By-Pass Jet Gasket	
P-6970	Pump Lever Stop Screw	
P-7170	Automatic Choke Rod Cotter Pin	
P-7170	Pump Rod Cotter Pin	
P-7098	Pump Check Valve Channel Plug	
P-8012	Main Body Att Stud	
P-9394	Pump Rod Washer	
P-10666	Float Needle Valve Seat Gasket	
P-10666	Main Discharge Jet Plug Gasket	
P-14159	Fast Idle Rod Set Screw	
P-14346	Pump Discharge Tube Channel Plug (Lead)	
P-15287	Thermostat Lever Stop Set Screw	
P-15390	Pump Link Spring Cotter Pin	
P-15456	Throttle Idle Adj Screw	
P-15457	Idle Air Bleed Channel Plug	
*P-15477	Idle Air Bleed	(VAR)
P-15459	Idle Channel Drive Plug	
P-15554	Main Body Attaching Screw	
P-15831	Throttle Idle Adj Screw Spring	
P-16161	Choke Stem Collar Set Screw	
P-16426	Choke Stem Washer	
P-16426	Thermostat Stem Washer	
P-16716	Throttle Valve Attach Screw	
P-16941	Main Body Gasket	
P-16973	Pump Lever Fulcrum Screw	
*P-17004	Main Metering Jet	(VAR)
P-17009	Pump Lever Fulcrum Screw Lock Screw Washer	
*P-17018	Throttle Valve	(VAR)
P 17027	Pump Lever Fulcrum Screw Lock Screw	
P-17045	Pump Rod	
P-17048	Automatic Choke Lever	
P-17060	Pump Piston & Link Splash Washer	
P-17073	Pump Piston & Link	
‡P-16960	Pump Piston Spring	
P-17081	Choke Stem Collar	
P-17133	Pump Lever Fulcrum Screw Spring Washer	
P-17147	Main Body Att Stud Nut	
P-17380	Pump Piston & Link Felt Washer	
P-17402	Idle Needle Valve	
P-17592	Pump Piston Link Spring	
P-17923	Air Horn Gasket	
P-17926	Float	

Part No	Name	
P-17939	Float Fulcrum Screw	
P-18111	Air Horn Attach Screw	
P-18130	Main Discharge Jet Plug	
P-18144	Pump Check Valve	
P-18264	Idle Tube	
P-18299	Automatic Choke Lever Clamp Screw Nut	
P-18300	Automatic Choke Lever Clamp Screw	
P-18338	Main Discharge Jet	
P-18345	Pump Discharge Tube Channel Plug	
P-18513	Pump Lever Spring	
P-18710	Idle Needle Valve Spring	
P-18970	Automatic Choke Unit Attaching Pin	
P-18986	Automatic Choke Lever & Bushing	
P-18993	Automatic Choke Unit Piston Sleeve	
P-18996	Automatic Choke Cam Pin	
P-19101	Automatic Choke Stem Pin	
P-19104	Automatic Choke Cam Return Spring	
P-19105	Automatic Choke Unit Att Screw	
P-19113	Thermostat Bracket	
P 19114	Thermostat Bracket Att Screw	
P-19124	Automatic Choke Unit Gasket	
P-19125	Automatic Choke Cam	
P 19136	Automatic Choke Cover & Bushing	
P-19136	Automatic Choke Cover & Bushing	
P-19144	Thermostat Lever Stop	
P-19309	Thermostat	
P-19341	Fast Idle Rod	
P-19345	Choke Valve	
P 19351	Fast Idle Stop Lever	
P-19662	Automatic Choke Piston Sleeve Gasket	
†P-19727	Thermostat Unit (Complete)	
P 19728	Automatic Choke Rod	
P 19738	Throttle Lever & Stem	
‡P-19103	Fast Idle Stop Lever Adj Screw	
‡P 15831	Fast Idle Stop Lever Adj Screw Spring	
†P-19740	Air Horn with Valve Assembly	
*P-19741	Throttle Valve Body	(VAR)
*P-19742	Main Body	(VAR)
P-19750	Automatic Choke Lever & Stem	
P-19751	Automatic Choke Unit	
P 19756	Thermostat Lever & Stem	
P-19759	Thermostat Cover	
P-19766	Choke Lever & Stem	
P 19830	Automatic Choke Unit Piston	
P-19870	Air Horn Assembly	
‡P-19764	Air Horn	
‡P-17828	Float Chamber Vent Cap	
‡P-18351	Float Chamber Vent Strainer	
‡P-18174	Float Chamber Splash Plate	
‡P-9802	Float Chamber Splash Plate Att Plugs	
P-19953	By-Pass Jet	
P-20240	Pump Lever	
P-20256	Float Needle Valve and Seat	

J-4385 G EE 23 Complete Gasket Set

*NOTE On parts marked (VAR) size must be specified when ordering

STANDARD SPECIFICATION

LA SALLE 1934 "350" (1406703)
3" x 4¼" 8 Cyl.
A-17782 EE-23 Carburetor

P-15477	No 42 Idle Air Bleed
P-17004	049 Meter Jet
P-17018	(5°) Throttle Valve
P-18264	Idle Tube, No 72 Feed Hole
P-18338	No 36 Main Dis Jet
P-19741	Thro Valve Body with No 56-60 Idle Holes
P-19742	Main Body with 1$\frac{1}{32}$" Venturi with No 68 H S Bleeder
P-19953	By-Pass Jet (1-63)

STANDARD SETTINGS FOR EE-23 CARBURETOR

Throttle Valve Location Upper lip of Thro Valve to be 030 plus or minus 004 below lower edge of upper idle hole

Pump Capacity 12 to 14 CC per 10 strokes (Minimum Pump Travel)

Economizer Setting Pump Piston to rest on seat of By-Pass Jet (Less over travel) with Thro Valve cracked open with $\frac{3}{16}$" drill plus or minus 1/64' (Maximum Adj —end hole in pump lever)

Fuel Level ⅝" below top face of float chamber at 3 lbs pressure

Slow Idle Screw ½ turn from closed throttle position

Fast Idle Screw ½ turn off of cam with Throttle in closed position

Pump Travel Setting Minimum

Thermostat Unhook Thermostat and at 70° F (See Note) hook on bracket to be in contact with hook on Thermostat without tension (Stamped 0 in line with pointer)

Thermostat Setting Turn pointer 6 notches in rich direction and lock (Prick punch position)

NOTE To determine 70° F Thermostat Setting If temperature in room is below 70° F, turn pointer in rich direction 1 notch per each 5° and if above 70° F, turn pointer in lean direction 1 notch per each 5° (Allow Thermostat to cool or warm so as to be of same temperature as room)

SPECIFICATIONS OF STANDARD EQUIPPED PASSENGER CARS
PARTS AND SETTINGS EXCEPTIONS MODEL EE-23 STANDARD CARBURETOR

PACKARD 1935-36 "SUPER 8" (216790)
3½"x5"—8-Cylinder
A-17882 EE 23 Carburetor (Code No 10-1A)

Std Part No	Special Part No	Used on Above Model Car
P-6387	P-6387-K	Screw Plug (10 32)
P-9394	P-9394-K	Pump Rod Washer
P-15390	P-19374	Pump Link Cotter Pin
P-15477	P-15477-K	No 44 Idle Air Bleeder
P-16161	P-16161-K	Choke Stem Collar Set Screw
P-17004	P-17004	056' Main Metering Jet
P-17081	P-17081-K	Choke Stem Collar
P-17402	P-17402-K	Idle Needle Valve
P-17592	P-17753	Pump Spring
P-17926	P-22088	Float
P-17939	P-17939-K	Fulcrum Screw
P-18130	P-19130-K	Main Jet Plug
P-18144	P-16990	Check Valve
P-18264	P-17007	Idle Tube, No 70 Feed Hole
P-18338	P-19364	No 28-36 Main Discharge Jet
P-18513	P-17042	Pump Lever Spring
P-18710	P-15481	Idle Needle Valve Spring
P-19727	P-20231	Thermostat Unit
P-19738	P-20249	Thro Lever and Stem
P-19740	P-20463	Air Horn Complete
P-19741	P-19342	Thro Valve Body No 56-60 Idle Holes
P-19742	P-20292	Main Body 1$\frac{3}{16}$' Venturi No 65 H S Bleeder
P-19830	P-22072	Vacuum Piston
P-19870-P	P-20465	Air Horn (Casting)
P-19953	P-20895	(1-54 Hole) By-Pass Jet
P-20240	P-16976	Pump Lever
P-20256	P-22091	Float Needle Valve and Seat Assy
None Shown	P-3292-K	Pipe Plug
None Shown	P-2369	Vent Cap Screw (Air Horn)
None Shown	P-12167	Vent Cap Screw Lockwasher
None Shown	P-18716	Vent Cap (Air Horn)
None Shown	P-17473	Float Needle Clip

NOTE Pump Capacity 12 to 16 CC (Fast) and 14 to 18 CC (Slow) per 10 strokes (Minimum pump travel)

NOTE Economizer Setting 9/32' drill plus or minus 1/64"

NOTE Fast Idle Screw Adjust so throttle opening will be 016 to 020

NOTE Thermostat Setting Turn pointer 11 notches rich and lock (Prick punch position)

NOTE Float Needle must be assembled in carburetor with one corner of triangle down

PACKARD 1935-36 "STD 8" (216791)
3$\frac{3}{16}$"x5"—8-Cylinder
A-17892 EE 23 Carburetor

Std Part No	Special Part No	Used on Above Model Car
P-6387	P-6387-K	Screw Plug (10-32)
P-9394	P-9394-K	Pump Washer
P 15390	P-19374	Pump Link Cotter Pin
P-15477	P-15477-K	No 42 Idle Air Bleeder
P-16161	P-16161-K	Choke Stem Collar Set Screw
P-17004	P-17004	052" Main Metering Jet
P-17042	P-17042-K	Idle Needle Valve
P-17073	P-18388	Pump Piston and Link
P-17081	P-17081-K	Choke Stem Collar
P-17592	P-17753	Pump Spring
P-17926	P-22088	Float
P-17939	P-17939-K	Fulcrum Screw
P-18130 K	P-18130-K	Main Metering Jet Plug
P-18144	P-16990	Check Valve
P-18264	P-17007	Idle Tube, No 70 Feed Hole
P-18338	P-19364	No 28 36 Main Discharge Jet
P-18513	P-17042	Pump Lever Spring
P-18710	P-15481	Idle Needle Valve Spring
P-19727	P-20231	Thermostat Unit
P-19738	P-20249	Thro Lever and Stem
P-19740	P-20463	Air Horn Complete
P-19741	P-19342	Thro Valve Body No 56-60 Idle Holes
P-19742	P-20292	Main Body 1-3/32" Venturi, No 65 H S Bleeder
P 19830	P-22072	Vacuum Piston
P-19870	P-20465	Air Horn (Casting)
P-19953	P-20823	(1- No 64 Hole) By-Pass Jet
P-20240	P-16976	Pump Lever
P 20256	P-22091	Float Needle Valve and Seat Assy
None Shown	P-3292-K	Pipe Plug
None Shown	P-2369	Vent Cap Screw (Air Horn)
None Shown	P-12167	Vent Cap Screw Lockwasher
None Shown	P-18716	Air Horn Vent Cap
None Shown	P 17473	Float Needle Clip

NOTE Pump Capacity 12 to 16 CC (Fast) and 14 to 18 CC (Slow) per 10 strokes (Minimum pump travel)

NOTE Economizer Setting 9/32" drill plus or minus 1/64"

NOTE Fast Idle Screw Adjust so throttle opening will be 016 to 020

NOTE Thermostat Setting Turn pointer 11 notches rich and lock (Prick punch position)

NOTE Float Needle must be assembled in carburetor with one corner of triangle down

SPECIFICATIONS OF STANDARD EQUIPPED PASSENGER CARS
PARTS AND SETTINGS EXCEPTIONS MODEL EE-23 STANDARD CARBURETORS—(Continued)

PACKARD 1937 MODELS 1500, 1, 2 (232165)
A-18392 EE-23 Carburetor (Code No 10-28)

Std Part No	Special Parts	Used on Above Model Car
P-4	P-21338	Thermostat Stem Cotter Pin
P-6387	P-6387-K	Idle Discharge Plug
P-6387	P-6387-K	Fast Idle Weight Lever Boss Plug
P-7098	P-7098-K	Pump Channel Plug
P-9394	P-9394-K	Pump Link Washer
P-15287	P-17723	Thermostat Stop Adj Screw
P-15390	P-19374	Pump Link Cotter Pin
P-15477	P-15477-K	Idle Air Bleeder No 42
P-16426	P-16426-K	Choke Stem Washer
P-17004	P-17004	050 Metering Jet
P-17045	P-22528	Pump Rod
P-17048	P-20229	Choke Lever Assy
P-17073	P-18388	Pump Piston and Link Assy
P-17081	P-17081 K	Choke Stem Collar
P-17402	P-17402-K	Idle Needle Valve
P-17592	P-17753	Pump Spring
P-17828	P 18716	Float Chamber Vent Cap
P-17926	P-22088	Float Assy
P-17939	P-17939-K	Float Lever Fulcrum Screw
P-18130	P-18130 K	Main Metering Jet Plug
P-18144	P-16990	Pump Check Valve
P-18264	P-17007	Idle Tube Assy No 70 Feed Hole
P-18338	P-19364	Main Discharge Jet No 28 36
P-18513	P-17042	Pump Lever Spring
P-19309	P-22060	Thermostat
P-19727	P 20231	Thermostat Unit Assy
P-19738	P-22533	Throttle Lever and Stem Assy
P-19741	P-19741	Throttle Body No 56-60 Idle Holes No 56 Spark Hole to come 015 above closed Throttle Valve
P-19742	P 20292	Main Body Assy $1\frac{3}{32}$ Venturi No 65 H S Bleeder No 60 P D Nozzles
P-19756	P-20254	Thermostat Stem and Lever Assy
P-19759	P-21358	Thermostat Plate and Bushing Assy
P-19764	P-20465	Air Horn
P-19766	P-19766-K	Choke Stem and Lever Assy
P-19870	P-20463	Air Horn and Valve Assy
P-19953	P-20823	By Pass Jet Assy 1 No 64 Hole
P 20240	P-16976	Pump Lever Assy
P-20256	P-22091	Float Needle Valve and Seat
None Shown	P-6406-K	Pump Discharge Channel Plug
None Shown	P-20232	Pump Discharge Tube No 60
None Shown	P-19430	Pump Discharge Tube Wedge
None Shown	P-17473	Float Needle Valve Clip
None Shown	P-3292-K	⅛" Pipe Plug
None Shown	P-2369	Float Chamber Vent Cap Attaching Screw
None Shown	P-12167	Float Chamber Vent Cap Attaching Screw Lockwasher

NOTE Throttle Valve Location Upper lip of Throttle Valve to be 020 plus or minus 004 below lower edge of upper idle hole

NOTE Pump Capacity 14 to 18 C C slow and 12 to 16 C C fast per 10 strokes with minimum adjustment

NOTE Thermostat Setting Turn pointer 11 notches in rich direction and lock (Prick punch position)

REO 1934 MODEL "ROYAL" (1-NA-174)
3⅜"x5'—8-Cylinder Engine
A-17712 EE-23 Carburetor (Code No 12-1)

Std Part No	Special Part No	Used on Above Model Car
P-15390	P-19374	Pump Link Cotter Pin
P-15477	P-15477	No 46 Idle Air Bleed
P-17004	P-17004	055 Main Metering Jet
P-17592	P-17753	Pump Piston Spring
P-18144	P-16990	Pump Check Valve
P-18264	P-17007	Idle Tube, No 70 Feed Hole
P-18338	P-19364	No 28-36 Main Discharge Jet
P-18513	P-17042	Pump Lever Spring
P-19727	P-19333	Thermostat Unit (1-NA-175)
P-19728	P-19334	Choke Rod (1-NA-176)
P-19738	P-19353	Throttle Lever and Stem
P-19740	P-19335	Air Horn (Complete)
P-19741	P-19342	Thro Valve Body No 56-60 Idle Holes No 56 Vac Spark Hole 031 above Throttle Valve
P-19742	P-19707	Main Body $1\frac{3}{16}$' Venturi, No 65 H S Bleeder
P-19751	P-19355	Automatic Choke Unit
P-19764	P-19350	Air Horn (Casting)
P-19766	P-19343	Choke Lever and Stem
P-19987	P-19990	Automatic Choke Piston
P-19953	P-18149	By-Pass Jet
P-20240	P-16976	Pump Lever
P-20256	P-18914	Float Needle Valve and Seat

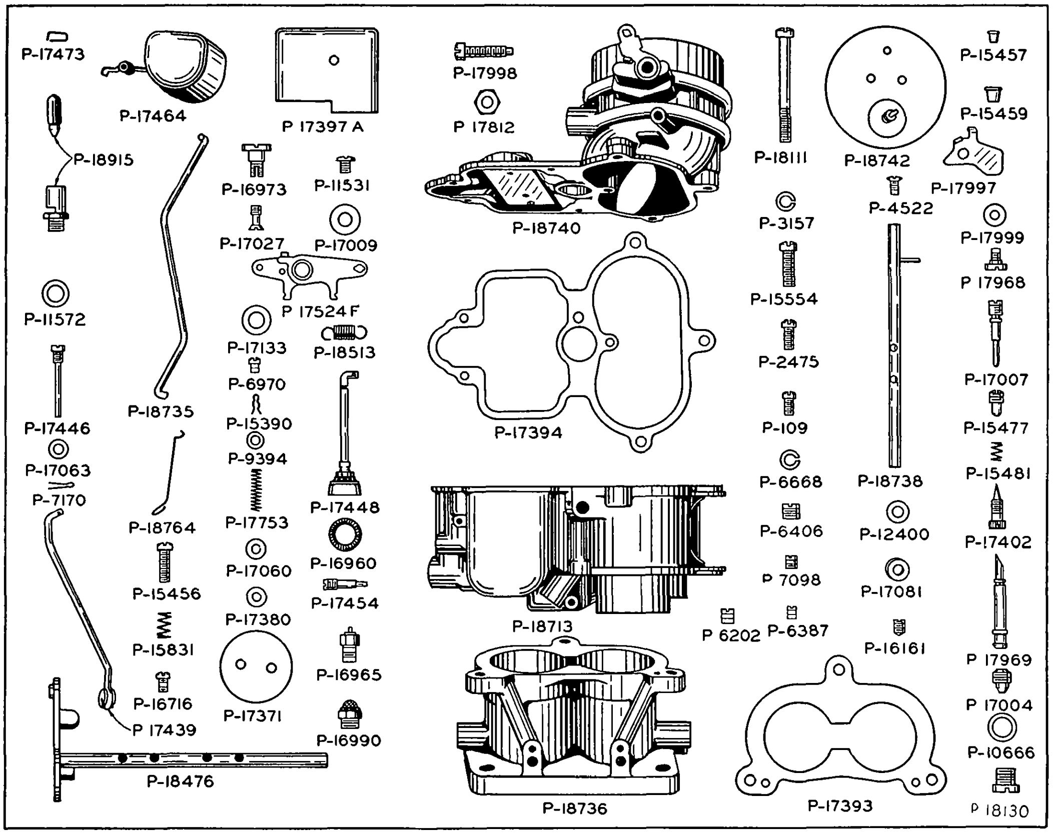
NOTE Pump Capacity 18 to 22 CC (Slow) and 14 to 18 CC (Fast) per 10 strokes (Maximum pump travel)

NOTE Economizer Setting 21/64' drill plus or minus 1/64'

NOTE Fast Idle Screw Adjust so Throttle opening will be .016 to 020

NOTE Thermostat Setting Turn pointer 10 notches rich and lock (Prick punch position)

NOTE Pump Travel Setting Maximum



EE-3 N . A-17443

1½" DUAL CARB

Notes and References

Car models having this carburetor with parts exceptions therefor are shown on back of this page

†These parts not illustrated

‡Indicates Sub assembly part

PARTS LIST STROMBERG MODEL "EE-3" CARBURETOR (AS USED ON "CL" CHRYSLER)

Part No	Name	
P-109	Air Horn Attach Screws	
P-2475	Air Horn Attach Screws	
P-3157	Air Horn Attaching Screw Lockwasher	
P-3157	Main Body Attaching Screw Lockwasher	
P-4522	Choke Valve Screws	
P-6202	Pump Discharge Nozzle Channel Plug	
P-6387	Idle Channel Screw Plug	
P-6406	Pump Disch **Nozzle Channel Plug (External)**	
P-6668	Float Chamber Cover Screws Lockwasher	
P-6970	Pump Lever Stop Screw	
P-7098	Pump Check Valve Channel Plug	
P-7170	Fast Idle Rod Cotter Pin	
P-7170	Pump Piston Link Cotter Pin	
P-7170	Pump Rod Cotter Pin	
P-9394	Fast Idle Rod Washers	
P-9394	Pump anl Link Spring Washer	
P-9394	Pump Rod Washer	
P-10666	Main Discharge Jet Plug Gasket	
P-11531	Pump Housing Attaching Screw	
P-11572	Float Needle Valve Seat Gasket	
P-12400	Choke Stem Washer	
P-15456	Throttle Stop Screw	
P-15457	Idle Air Bleed Channel Plug	
P-15459	Idle Channel Drive Plug	
*P-15477	**Idle Air Bleed**	(VAR)
P-15481	Idle Needle Valve Spring	
P-15554	Air Horn Attaching Screws	
P-15554	Main Body Attaching Screw	
P-15831	Throttle Stop Screw Spring	
P-16161	Choke Stem Collar Set Screw	
P-16716	Throttle Valve Screw	
*P-16965	Economizer By Pass Jet	(VAR)
P-16973	Pump Lever Fulcrum Screw	
P-16990	**Pump Check Valve (Comp)**	
*P-17004	Main Metering Jet	(VAR)
P-17007	Idle Tube	
P-17009	Pump Lever Fulcrum Screw Lock Screw Washer	
P-17027	Pump Lever Fulcrum Screw Lock Screw	
P-17063	Float Fulcrum Screw Gasket	
P-17081	Choke Stem Collar	
P-17133	Pump Lever Fulcrum Screw Spring Washer	
*P-17371	Throttle Valve	(VAR)
P-17380	Pump and Link Felt Washer	
P-17393	Main Body Gasket	
P-17394	Air Horn Gasket	
P-17397A	Pump Housing	
P-17402	Idle Needle Valve	
P-17439	Pump Rod	
P-17446	Float Fulcrum Screw	
P-17448	Pump Piston and Link (Comp)	
‡P-16960	Pump Piston Spring	
*P-17454	Pump Discharge Nozzle	(VAR)
P-17464	Float with Lever (Comp)	
P-17473	Float Hanger	
P-17524F	Pump Lever (Comp)	
P-17753	Pump and Link Spring	
P-17812	Fast Idle Adj Lever Screw Lock Nut	
P-17968	Fast Idle Lever Fulcrum Screw	
P-17969	Main Discharge Jet	
P 17997	Fast Idle Lever	
P-17998	Fast Idle Adj Lever Screw	
P-17999	Fast Idle Lever Fulcrum Screw Washer	
P-18111	Air Horn Attaching Screw	
P-18130	Main Discharge Jet Plug	
P-18476	Throttle Lever and Stem (Comp)	
P-18513	Pump Lever Spring	
P-18585	Air Horn with Valve (Comp)	
*P-18713	Main Body	(VAR.)
P-18735	Fast Idle Rod	
*P-18736	Throttle Valve Body	(VAR)
P-18738	Choke Lever Stem and Pin	
‡P-18739	Choke Stem Pin	-
P-18740	Air Horn (Complete)	
‡P-18282	Choke Lever	
‡P-17996	Choke Lever Bushing	
‡P-18292	Cover Plate	
‡P-9802	Cover Plate Wedge-Screws	
‡P-17828-F	Float Cover Vent Cap	
‡P-18358-F	Float Cover Vent Cap Screen	
P-18742	Choke Valve (Comp)	
P-18764	Fast Idle Rod Spring	
P-18915	Float Needle Valve and Seat	
P-19374	Pump and Link Spring Cotter Pin	
P-22856	Pump Piston and Link Washer	

*NOTE On parts marked (VAR) size must be specified when ordering

J 4365-G EE 3 Complete Gasket Set

STANDARD SPECIFICATION

CHRYSLER "CH" & "CL" 1933 (320037)
3½"x5'—8-Cylinder
No A-17443 EE-3 Carburetor

P-15477	Idle Air No 48
P-16965	060" By-Pass Jet
P-17004	Metering Jet 061'
P-17007	Idle Tube, No 70 Feed Hole
P-17371	Throttle Valve 5°
P-17454	Pump Discharge Nozzle No 66
P-17969	Main Discharge Jet No 36
P-18713	Main Body 1$\frac{3}{16}$" Venturi with No 65 H S Bleeder
P-18736	Throttle Valve Body with No 56-58 Idle Holes

STANDARD SETTINGS FOR EE-3 CARBURETOR

Throttle Valve Location Upper lip of Throttle Valve to be 030 plus or minus 004 below lower edge of upper idle holes

Pump Capacity 20 to 22 CC per 10 strokes (Minimum Setting)

Economizer Setting Pump Piston to rest on seat of By Pass Jet (Less over travel), with Throttle Valve cracked open with 7/32" Drill plus or minus 1/64' (Max pump travel—end hole in pump lever)

Fuel Level $\frac{9}{16}$" below top face of Fl Chamber at 3 lbs pressure

Pump Stroke Setting Maximum between Oct 1st to March 31st Minimum between April 1st to Sept 30th

Fast Idle Screw To be 1½ turns beyond point of contact with Throttle Valve fully closed.

SPECIFICATIONS OF STANDARD EQUIPPED PASSENGER CARS PARTS AND SETTINGS EXCEPTIONS MODEL EE-3 STANDARD CARBURETOR

CHRYSLER 1934 MODEL "CW" (627075)

3½"x5"—8-Cylinder Engine
A-17613 EE-3 Carburetor (Code No 4-3)

Std. Part No.	Special Part No	Used on Above Model Car
P-109	P-109-H	Air Horn Fill Hd Screw (10-24)
P-2475	P-2475-H	Air Horn Fill Hd Screw (10-24)
P-6387	P-6387-H	Screw Plug (10-32)
P-6406	P-6406-H	Screw Plug ($\frac{5}{16}$ -24)
P-7170	P-7170-H	Cotter Pin
P-9394	P-9394-H	Pump Stem Washer
P-9802-F	P-9802-H	Float Cover Vent Cap Drive Screw
P-11531	P-11531-H	Pump Lever Housing Screw
P-12400	P-12400-H	Choke Stem Washer
P-15456	P-16586-H	Throttle Stop Screw
P-15457	P-15457-H	Drive Plug No 6
P-15459	P-15459-H	Drive Plug (¼")
P-15477	P-15477-H	No 42 Idle Air Bleed
P-16161	P-16161-H	Choke Stem Collar Set Screw
P-17004	P-17004	058" Main Metering Jet
P-17007	P-19579	Idle Tube, No 70 Feed Hole
P-17081	P-17081-H	Choke Stem Collar
P-17393	P-19781	Main Body Gasket
P-17397-A	P-17442	Pump Lever Housing
P-17439	P-19783	Pump Rod
P-17446	P-17446-H	Float Fulcrum Screw
P-17524-F	P-17524-H	Pump Lever
P-17812	P-16639-H	Fast Idle Adjusting Screw
P-17828-F	P-17828-H	Float Cover Vent Cap
P-17968	P-17968-H	Fast Idle Kick Lever Fulcrum Screw
P-17969	P-20236	No 30 Main Discharge Jet
P-17997	P-17997-H	Fast Idle Kick Lever
P-17998	P-18281-H	Fast Idle Adjusting Screw
P-17999	P-17999-H	Fast Idle Kick Lever Fulcrum Screw Washer
P-18111	P-19396-H	Air Horn Fill Hd Screw (¼-20)
P-18130	P-18130-H	Main Metering Jet Plug
P-18351	P-18351-H	Float Cover Vent
P-18476	P-19878-H	Throttle Lever and Stem
P-18585	P-19879	Air Horn (Complete)
P-18713	P-19893	Main Body, 1$\frac{3}{16}$" Venturi No 70 H S Bleeder
P-18735	P-18735-H	Fast Idle Rod
P-18736	P-19877	Throttle Valve Body, No 56-58 Idle Holes
P-18738	P-18738-H	Choke Stem and Pin
P-18740	P-19886	Air Horn (Casting)
None Shown	P-19780	Main Body Insulator Gasket
None Shown	P-15554-H	Main Body Fill Hd Screws
None Shown	P-19395-H	Main Body Fill Hd Screws

NOTE Slow Idle Set Screw 2 turns from a closed throttle postion

DUESENBERG 1933 MODEL "J" (OJ-916)

3¾"x4⅛"—8-Cylinder Engine
A-17093 EE-3 Carburetor (Code No 59-2)
(Without Fast Idle)

Std Part No.	Special Part No	Used on Above Model Car
P-109	P-109-L	Air Horn Fill Hd Screws
P-3157	P-3157-L	Fill Hd Screw Lockwasher
P-6387	P-6387-L	Screw Plug (10-32)
P-6406	P-6406-L	Screw Plug (¼-32)
P-7098	P-7098-L	Screw Plug (8-32)
P-9394	P-9394-L	Pump Piston Stem Washer
P-9802-F	P-4712-L	Float Chamber Vent Cap Screw
P-11531	P-11531-L	Pump Lever Housing Screw
P-15390	P-7170-L	Cotter Pin
P-15456	P-15456-L	Throttle Stop Screw
P-15457	P-15457-L	Drive Plug No 6
P-15459	P-15459-L	Drive Plug (¼")
P-15477	P-15477-L	No 46 Idle Air Bleed
P-15481	P-15481-L	Idle Needle Valve Spring
P-15554	P-15554-L	Fill Hd Screws (¼-20)
P-15831	P-15831-L	Throttle Stop Screw Washer
P-16161	P-16161-L	Choke Stem Collar Set Screw
P-16716	P-15259	Throttle Valve Screw
P-16965	P-16965	080" By Pass Jet
P-17004	P-17004	076' Main Metering Jet
P-17081	P-17081-L	Choke Stem Collar
P-17397-A	P-18719	Pump Lever Housing
P-17402	P-17891	Idle Needle Valve
P-17439	P-17439-L	Pump Rod
P-17446	P-17446-L	Float Fulcrum Screw
P-17454	P-17454	No 63 Pump Discharge Nozzle
P-17524-F	P-17524	Pump Lever
P-17828-F	P-17828-L	Float Chamber Vent Cap
P-17969	P-17015	No 36 Main Discharge Jet
P-18130	P-16978-L	Main Metering Jet Plug
P-18351	P-17928-K	Float Chamber Vent
P-18476	P-17706-L	Throttle Lever and Stem
P-18513	P-17042	Pump Lever Spring
P-18585	P-18155	Air Horn (Complete)
P-18713	P-18153	Main Body 1⅜" Venturi, No 65 H S Bleeder
P-18736	P-18154	Throttle Valve Body, No 56-58 Idle Holes
P-18737	P-18160	Air Horn (Casting)
P-18738	P-17777-L	Choke Stem
P-18742	P-17817	Choke Valve
P-18915	P-18928	Float Needle Valve and Seat Assy
None Shown	P-18161-L	Choke Lever
None Shown	P-17556	Name Plate
None Shown	P-14704-L	Name Plate Attach Screw
None Shown	P-17452-L	Main Body Stud
None Shown	P-4729-L	Main Body Stud Nut
None Shown	P-17773	Air Horn Stud
None Shown	P-17774-L	Air Horn Stud Cap Nut

NOTE All external parts on this carburetor are polished nickel plate When ordering standard parts for this carburetor be sure to specify accordingly

NOTE Pump Travel Setting Minimum

SPECIFICATIONS OF STANDARD EQUIPPED PASSENGER CARS

PARTS AND SETTINGS EXCEPTIONS MODEL EE-3 STANDARD CARBURETOR (Continued)

PACKARD "TWIN SIX" 1932 (205038)

3$\frac{7}{16}$" x 4'—12 Cyl
No A-16513 EE-3 Carburetor (Code No 10-13)
(Without Fast Idle)

Std Part No	Part Used on Above Model Car	
P-12400	P-4735-L	Choke Lever Stem Washer
P-15477	P-15477L	Idle Air Bleeder No 46
P-16716	P-15259	Throttle Valve Screw
P-16965	P-16965	080 By-Pass Jet
P-17004	P-17004	Metering Jet 064"
P-17371	P-17371	Throttle Valve 5°
P-17397A	P-17442	Pump Housing
P-17402	P-17891	Idle Needle Valve
P-17454	P-17769	Pump Discharge Nozzle No 60
P-17969	P-17815	Main Discharge Jet No 36
P-18130	P-16978-L	Main Jet Plug
P-18476	P-17706L	Throttle Lever and Stem
P-18513	P-17042	Pump Lever Spring
P-18585	P-17770	Air Horn (Comp)
P-18713	P-17443	Main Body 1$\frac{3}{16}$' Venturi, No 65 H S Bleeder
P-18736	P-18156	Thro Vall Bd with No 56-58 Idle Holes
P-18738	P-17777L	Choke Lever Stem
P-18740	P-17759	Air Horn (Casting)
P-18742	P-17817	Choke Valve (Comp)
P-18915	P-18928	Needle and Seat
None Shown	P-3292	Pipe Plug
None Shown	P-17452-L	Stud (Main Body)
None Shown	P-4729L	Stud Nut
None Shown	P-17763L	Choke Balance Lever
None Shown	P-17928K	Float Chamber Vent
None Shown	P-17828L	Float Chamber Vent Cap
None Shown	P-4712L	Float Chamber Vent Cap Screw
None Shown	P-17773	Air Horn Stud
None Shown	P-17774L	Air Horn Stud Nut
None Shown	P-1693	Throttle Valve Screw Lockwasher
None Shown	P-17556	Name Plate
None Shown	P-14704-L	Name Plate Attach Screw

NOTE All external parts on this carburetor are polished nickel plate When ordering standard parts for this carburetor be sure to specify accordingly

NOTE Pump Travel Setting Minimum

PACKARD "TWIN SIX" 1933 (210239)

3$\frac{7}{16}$" x 4"—12 Cyl
A-17283 EE-3 Carburetor (Code No 10-7)

Std Part No	Part Used on Above Model Car	
P-12400	P-4735-L	Choke Stem Washer
P-15477	P-15477L	Idle Air Bleeder No 46
P-16716	P-15259	Throttle Valve Screw
P-17004	P-17004	Metering Jet 058"
P-17397A	P-17442	Pump Housing
P-17402	P-17891	Idle Needle Valve
P-17454	P-17769	Pump Discharge Nozzle No 65
P-17969	P-18413	Main Discharge Jet No 28-36
P-18130	P-16978-L	Main Jet Plug
P-18476	P-18393	Throttle Lever and Stem
P-18585	P-18409	Air Horn (Comp)
P-18713	P-17443	Main Body, 1$\frac{3}{16}$" Venturi No 65 H S Bleeder
P-18735	P-18398	Fast Idle Rod
P-18736	P-18363	Thro Val Bd with No 56-58 Idle Holes
P-18738	P-17777L	Choke Stem
P-18740	P-17759	Air Horn (Casting)
P-18742	P-18434	Choke Valve (Comp)
P-18915	P-18928	Needle and Seat Assembly
None Shown	P-17599	Choke Balance Lever
None Shown	P 17928K	Float Chamber Vent
None Shown	P-17828L	Float Chamber Vent Cap
None Shown	P-4712L	Float Chamber Vent Cap Screw
None Shown	P-18907	Choke Lever
None Shown	P-18390-L	Lever (Fast Idle)
None Shown	P-18391L	Lever (Adj)
None Shown	P-17968L	Fulcrum Screw
None Shown	P-17999-L	Washer (Fulcrum Screw)
None Shown	P-17998L	Adj Screw
None-Shown	P-17812-L	Adj Screw Nut
None Shown	P-2290L	Nut
None Shown	P-1791-L	Lockwasher
None Shown	P-1693L	Throttle Valve Screw Lockwasher
None Shown	P-17773	Air Horn Stud
None Shown	P-17774-L	Air Horn Stud Cap Nut

Note All external parts on this carburetor are polished nickel plate When ordering standard parts for this carburetor be sure to specify accordingly

NOTE Fast Idle Screw To be 6¾ turns

NOTE Pump Stroke Setting Maximum

PACKARD 1934-35-36 (219810)

3$\frac{7}{16}$"x4¼"—12 Cylinder
A-17883 EE-3 Carburetor (Code No 10 3-A)

Std Part No	Special Part No	Parts Used on Above Model Car
P-9802-F	P-4712-L	Air Horn Vent Cap Screw
P-12400	P-4735-L	Choke Stem Washer
P-15456	P-16586-L	Throttle Stop Screw
P-16716	P-15259	Throttle Valve Screw
P-17004	P-17004	060' Main Metering Jet
P-17397-A	P-17442	Pump Lever Housing
P-17402	P-17891	Idle Needle Valve
P-17524-F	P-17524	Pump Lever
P-17969	P-20647	No 28 Main Discharge Jet
P-18130	P-22476 L	Main Jet Plug
P-18351	P-17928-K	Air Horn Vent
P-18476	P-18393	Throttle Lever and Stem
P-18585	P-18409	Air Horn (Complete)
P-18713	P-22395	Main Body 1$\frac{5}{16}$' Venturi No 65 H S Bleeder No 60 P D Nozzle
P-18735	P-18398-L	Fast Idle Rod
P-18736	P-18363	Thro Val Body No 56-58 Idle Holes
P-18738	P-17777	Choke Stem
P-18740	P-17759	Air Horn (Casting)
P-18742	P-18434	Choke Valve
P-18915	P-18928-L	Float Needle Valve and Seat Assy
None Shown	P-17599	Choke Balance Lever
None Shown	P-17556	Name Plate
None Shown	P-14704	Name Plate Drive Screw
None Shown	P-18907	Choke Lever
None Shown	P-1693-L	Lockwashers (Valve Screw)
None Shown	P-3292	Pipe Plug
None Shown	P-17773	Stud
None Shown	P-17774	Stud Nut
None Shown	P-18390-L	Fast Idle Lever
None Shown	P-18391-L	Fast Idle Lever Adjustment
None Shown	P-17968-L	Fast Idle Fulcrum Screw
None Shown	P-17999-L	Fast Idle Fulcrum Screw Washer
None Shown	P-17998-L	Fast Idle Adjusting Screw
None Shown	P-17812-L	Fast Idle Adjusting Screw Nut
None Shown	P-1791-L	Lockwasher
None Shown	P-2290-L	Fast Idle Rod Washer

NOTE All external parts of this carburetor are polished nickel When ordering parts be sure to specify accordingly

NOTE Fast Idle Screw To be 6¾ turns

NOTE Pump Stroke Setting Maximum

PACKARD 1937 MODELS 1506-7-8 (232166)

12 Cylinder Engine
A-17893 EE-3 Carburetor (Code No 10-27-C)

Std Part No	Special Parts	Used on Above Model Car
P-109	P-109-L	Air Horn Attaching Screw
P-3157	P-3157-L	Main Body Attach Screw Lockwasher
P-6387	P-6387-L	Idle Discharge Plug
P-6406	P-6406-L	Pump Discharge Channel Plug
P 6668	P-6668-L	Air Horn and Pump Housing Attach Screw Lockwasher
P-6970	P-22710	Pump Lever Stop Screw
P-7098	P-7098-L	Pump Channel Plug
P-7170	P-19374	Pump Link Cotter Pin
P-7170	P-7170 L	Fast Idle Rod Pump Rod and Pump Link Cotter Pin
P-9394	P-9394 L	Fast Idle Rod and Pump Rod Washer
P-11531	P 11531-L	Pump Housing Attaching Screw
P-15456	P-15456-L	Idle Adj Screw
P-15457	P-15457-L	Idle Air Bleed Channel Drive Plug
P-15477	P 15477-L	Idle Air Bleeder No 54
P-15481	P-15481-L	Idle Needle Valve Spring
P 15554	P-15554-L	Main Body Attaching Screw
P-15831	P-15831-L	Idle Adj Screw Spring
P-16161	P-16161-L	Choke Stem Collar Set Screw
P-16716	P-15259	Throttle Valve Screw
P-16965	P 16965	007 By Pass Jet
P-17004	P-17004	068 Metering Jet
P-17007	P-22737	Idle Tube and Hldr No 70 Feed Hole
P-17081	P-17081-L	Choke Stem Collar
P-17397-A	P 17442	Pump Lever Housing
P-17402	P 17891	Idle Needle Valve
P-17439	P-22530-L	Pump Rod Assy
P-17446	P-17446-L	Float Lever Fulcrum Screw
P-17448	P-22766	Pump Piston and and Link Assy
P-17812	P 17812-L	Fast Idle Adj Lever Adj Screw Nut
P-17828-F	P-17828-L	Float Chamber Vent Cover
P-17968	P-17968-L	Fast Idle Wght Lev Fulcrum Screw
P 17969	P 22755	Main Discharge Jet No 32
P-17997	P-18391-L	Fast Idle Adjusting Lever
P-17998	P-17998-L	Fast Idle Adjust Lever Adjust Scr
P-17999	P-17999-L	Fast Idle Wt Lev Fulcrum Scr Wash
P-18111	P-18111-L	Main Body Attaching Screw
P-18130	P-22476-L	Main Metering Jet Plug
P-18282	P-18907	Choke Lever Assy
P-18476	P-22455	Throttle Lever and Stem Assy
P 18513	P-17042	Pump Lever Spring
P-18585	P-22940	Air Horn & Valve Assy
P-18713	P-22762	Main Body 1$\frac{3}{16}$ Venturi No 70 H S Bleeder No 60 P D Noz
P 18735	P 22923-L	Fast Idle Rod
P-18736	P 22773	Throttle Body No 50-60 Idle Holes **No 56 Idle Air Bleed**
P-18738	P-17777	Choke Stem
P-18740	P-17759	Air Horn
P-18742	P 18434	Choke Valve Assy
P-18915	P 19548	Float Needle Valve and Seat
None Shown	P 20232	Pump Discharge Tube No 60
None Shown	P 19430	Pump Discharge Tube Wedge
None Shown	P-17473	Float Needle Valve Clip
None Shown	P-18389 L	Fast Idle Lever
None Shown	P-18394-L	Fast Idle Lever Attaching Bushing
None Shown	P-1693 L	Throttle Valve Screw Lockwasher
None Shown	P-3292-L	Decarbonizing Boss Plug
None Shown	P-17599	Choke Balance Lever Assy
None Shown	P-17928-K	Float Chamber Vent
None Shown	P 4735-L	Choke Balance Lever Spacer Washer
None Shown	P-17773	Air Horn Attaching Stud
None Shown	P-17774-L	Air Horn Attaching Stud Nut
None Shown	P-2290-L	Fast Idle Adj Lever Attaching Nut
None Shown	P 1791 L	Fast Idle Adj Lever Nut Lockwasher

NOTE Throttle Valve Location Upper lip of throttle valve to be 053' plus or minus 004" below lower edge of upper idle hole

NOTE Pump Capacity 22 to 24 CC per 10 strokes with minimum adjustment

NOTE Pump Travel Setting Maximum

NOTE Fast Idle Screw To be 6¾ turns beyond point of contact with throttle valve fully closed

NOTE Set slow idle screw 2½ turns from closed throttle position

SPECIFICATIONS OF STANDARD EQUIPPED PASSENGER CARS

PARTS AND SETTINGS EXCEPTIONS MODEL EE-3 STANDARD CARBURETOR (Continued)

PIERCE ARROW "836" & "839" 1933 (702636)

3½" x 4¾"—8 Cyl

No A-15153 EE-3 Carburetor (Code No 18-12)

Std Part No	Part Used on	Above Model Car
P-15477	P-15477	Idle Air Bleeder No 41
P-17004	P-17004	Metering Jet 060"
P-17371	P-18252	Throttle Valve 5°
P-17394	P-18239	Air Horn Gasket
P-17448	P-17073	Pump Piston and Stem
P-17454	P-17454	Pump Discharge Nozzle No 72
P-17969	P-18969	Main Discharge Jet No 28
P-18130	P-16978	Main Jet Plug
P-18378	P-18258	Choke Stem and Pin
P-18476	P-18249	Throttle Lever and Stem
P-18513	P-17042	Pump Lever Spring
P-18585	P-18254	Air Horn (Comp)
P-18713	P-18253	Main Body, $1\frac{3}{16}$" Venturi, No 70 H S Bleeder
P-18735	P-18408	Fast Idle Rod
P-18736	P-18240	Throttle Valve Body with No 56-58 Idle Holes
P-18740	P-18269	Air Horn (Casting)
P-18742	P-18247	Choke Valve
P-18764	P-18886	Spring (Fast Idle Rod)
P-18915	P-18928	Needle and Seat Assembly
J-4365-G	J-4535-G	Complete Gasket Set
None Shown	P-17259	Choke Stem Bushing
None Shown	P-18262	Lever (Fast Idle)
None Shown	P-2290	Nut
None Shown	P-1791	Lockwasher

NOTE Pump capacity 10 to 14 CC Fast) and 14 to 18 CC (Slow) per 10 strokes (Maximum Pump Travel)

NOTE Pump Stroke Setting Maximum

PIERCE ARROW 1934 MODELS "836-A & 840-A'" (705227)

1935 MODELS "845"

1936 MODELS "1601"

3¼' x4¾" and 3½"x5 —8-Cylinder Engines

A-17633 EE-3 Carburetor (Code No 18-1)

Std Part No	Special Part	No Used on Above Model Engines
P-15477	P-15477	No 41 Idle Air Bleed
P-16639	P-17812	Fast Idle Adjusting Screw Nut
P-17004	P-17004	058 Main Metering Jet
P-17371	P-18252	(5°) Throttle Valve
P-17394	P-18239	Air Horn Gasket
P-17448	P-17073	Pump Piston and Link
P-17454	P-17454	No 68 Pump Discharge Nozzle
P-17969	P-18969	No 28 Main Discharge Jet
P-18281	P-17998	Fast Idle Adjusting Screw
P-18476	P-21720	Throttle Lever and Stem
P-18513	P-17042	Pump Lever Spring
P-18585	P-19785	Air Horn (Complete)
P-18713	P-18253	Main Body, $1\frac{3}{16}$" Venturi No 70 H S Bleeder
P-18735	P-18408	Fast Idle Rod
P-18736	P-18240	Throttle Valve Body, No 56-58 Idle Holes
P-18738	P-19801	Choke Stem and Pin
P-18740	P-18269	Air Horn (Casting)
P-18742	P-18247	Choke Valve
P-18764	P-18886	Fast Idle Spring
P-18915	P-18928	Float Needle Valve and Seat Assy
None Shown	P-4735	Choke Stem Washer
None Shown	P-17599	Choke (Balance) Lever
None Shown	P-18110	Fast Idle Lever
None Shown	P-17259	Fast Idle Lever Bushing
None Shown	P-18262	Fast Idle Lever (Throttle Stem)
None Shown	P-2290	Nut
None Shown	P-1791	Lockwasher

NOTE Pump Capacity 10 to 14 CC (Fast) and 14 to 18 CC (Slow) per 10 strokes (Maximum Pump Travel)

NOTE Slow Idle Set Screw 2 turns from closed throttle position

NOTE Pump Travel Setting Maximum

PIERCE ARROW 1936 MODEL "1601" (706074)

3½"x5"—8 Cylinders

A-17843 EE-3 Carburetor (Code No 18-21-A)

Std Part No.	Special Parts	Used on Above Model Car	
P-15477	P-15477	No 41 Idle Air Bleeder	
P-17004	P-17004	058 Metering Jet	(A)
P-17371	P-18252	5° Throttle Valve	
P-17394	P-18239	Air Horn Gasket	
P-17448	P-17073	Pump Piston and Link	
P-17454	P-17454	No 68 Pump Discharge Nozzle	(A)
P-17524	P-21997	Pump Lever	
P-17969	P-18969	No 28 Main Discharge Jet	
P-18476	P-21995	Throttle Lever and Stem	
P-18585	P-21996	Air Horn with Valve (Complete)	
P-18713	P-18253	Main Body with $1\frac{3}{16}$ Venturi, and No 70 High Speed Bleeder	
P-18736	P-18240	Throttle Valve Body with No 56-58 Idle Holes	
P-18738	P-22002	Choke Stem	
P-18740	P-22001	Air Horn	
P-18742	P-18247	Choke Valve	
P-18915	P-18928	Float Needle Valve and Seat	
None Shown	P-15446	Choke Lever	
None Shown	P-17040	Choke Tube Holder	
None Shown	P-17093	Choke Tube Holder Attaching Screw	
None Shown	P-10114	Choke Lever Spacer Bushing	

PIERCE ARROW 1937 MODELS "438', "444" AND "447" (707789)

A 17963 EE-3 Carburetor (Code No 18-30)

Std Part No	Special Part	No Used on Above Model Engine
P-15477	P-15477	No 41 Idle Air Bleed
P-16639	P-17812	Fast Idle Adjusting Screw Nut
P-17004	P-17004	058' Main Metering Jet
P-17371	P-22925	5 Deg Throttle Valve
P-17394	P-18239	Air Horn Gasket
P-17448	P-17073	Pump Piston and Link
P-17454	P-17454	No 72 Pump Discharge Nozzle
P-17969	P-18969	No 28 Main Discharge Jet
P-18281	P-17998	Fast Idle Adjusting Screw
P-18476	P-21720	Throttle Lever and Stem
P-18513	P-17042	Pump Lever Spring
P-18585	P-19785	Air Horn (Complete)
P-18713	P-18253	Main Body $1\frac{3}{16}$' Venturi, No 70 H S Bleeder
P-18735	P-18408	Fast Idle Rod
P-18736	P-22919	Throttle Valve Body No 56-58 Idle Holes No 52 Vac Spk Hole Flush
P-18738	P-19801	Choke Stem and Pin
P-18740	P-18269	Air Horn (Casting)
P-18742	P-18247	Choke Valve
P-18764	P-18886	Fast Idle Spring
P-18915	P-18928	Float Needle Valve and Seat Assy
None Shown	P-4735	Choke Stem Washer
None Shown	P-17599	Choke (Balance) Lever
None Shown	P 18110	Fast Idle Lever
None Shown	P-17259	Fast Idle Lever Bushing
None Shown	P-18262	Fast Idle Lever (Throttle Stem)
None Shown	P-2290	Nut
None Shown	P-1791	Lockwasher

NOTE Pump Capacity 10 to 14 CC (Fast) and 14 to 18 CC (Slow) per 10 strokes (Maximum pump travel)

NOTE Slow Idle Set Screw 2 turns from closed throttle position

NOTE Pump Travel Setting Maximum

PIERCE ARROW 1937 (707579)

A-17943 EE-3 Carburetor (Code No 18-27)

Specifications same as A-17843 except 058' Metering Jet

STUTZ 1933 "D-V"

3"x4½ —8-Cylinder Engine

A-17383 EE-3 Carburetor

(Without Fast Idle)

Std. Part No.	Special Part	No Used on Above Model Car
P-2475	P-3199	Fill Hd Screw (10-24)
P-9802	P-4712	Float Chamber Vent Cap Screw
P-17004	P-17004	059" Main Metering Jet
P-17454	P-17454	No 62 Pump Discharge Nozzle
P-17828-E	P-17828	Float Chamber Vent Cap
P-17969	P-17015	No 36 Main Discharge Jet
P-18130	P-16978	Main Jet Plug
P-18351	P-17928	Float Chamber Vent
P-18476	P-18509	Throttle Lever and Stem
P-18585	P-18466	Air Horn (Complete)
P-18713	P-17410	Main Body 1⅛" Venturi No 65 H S Bleeder
P-18735	P-18460	Fast Idle Control Rod
P-18736	P-18469	Throttle Valve Body No 56-58 Idle Holes
P-18738	P-18471	Choke Stem and Pin
P-18740	P-18468	Air Horn (Casting)
P-18915	P-18928	Float Needle Valve and Seat Assy
None Shown	P-18110	Choke Lever ....
None Shown	P-17452	Main Body Stud
None Shown	P-4729	Main Body Stud Nut
None Shown	P-6184	Air Horn Plug
None Shown	P-18458	Fast Idle Kick Lever

NOTE Economizer Setting 3/16" plus or minus 1/64"

NOTE Pump Stroke Setting Maximum

SPECIFICATIONS OF STANDARD EQUIPPED PASSENGER CARS
PARTS AND SETTINGS EXCEPTIONS MODEL EE-3 STANDARD CARBURETOR (C ntinued)

STUTZ 1932-33 MODEL "DV-32" (39142)
3⅜"x4½"—8-Cylinder Engine
A-16703 EE-3 Carburetor
(Without Fast Idle)

Std Part No	Special Part No	Used on Above Model Car
P-2475	P-3199	Air Horn Fill Hd Screw
P-9394	P-6664	Lockwasher
P-12400	P-16426	Choke Stem Washer
P-16716	P-15259	Throttle Valve Screw
P-17004	P-17004	058" Main Metering Jet
P-17402	P-15478	Idle Needle Valve
P-17454	P-17454	No 62 Pump Discharge Nozzle
P-17969	P-17015	No 36 Main Discharge Jet
P-18130	P-16978	Main Jet Plug
P-18476	P-17779	Throttle Lever and Stem
P-18513	P-17042	Pump Lever Spring
P-18585	P-17787	Air Horn (Complete)
P-18713	P-17410	Main Body, 1-1/8' Venturi, No 65 H S Bleeder
P-18736	P-17786	Throttle Valve Body No 56-58 Idle Holes
P-18738	P-17792	Choke Lever Stem
P-18740	P-17781	Air Horn (Casting)
P-18742	P-17790	Choke Valve
P-18915	P-18928	Float Needle Valve and Seat Assy
None Shown	P-17067	Choke Tube Holder
None Shown	P-17068	Choke Return Spring
None Shown	P-17059	Choke Lever Fulcrum Screw
None Shown	P-4	Choke Stem Cotter Pin
None Shown	P-17058	Choke Stem Bushing
None Shown	P-17132	Choke Lever Spring
None Shown	P-17053	Choke Lever
None Shown	P-17093	Choke Tube Holder Attach Screw
None Shown	P-17452	Main Body Stud
None Shown	P-4729	Main Body Stud Nut
None Shown	B-17783	Throttle Return Spring
None Shown	P-3528	Name Plate
None Shown	P-15174	Name Plate Attach Screw
None Shown	P-1693	Throttle Valve Screw Lockwasher
None Shown	P-2369	Throttle Return Spring Attach Screw
None Shown	P-6184	Air Horn Plug

NOTE Economizer Setting 3/16" plus or minus 1/64"
NOTE Pump Stroke Setting Maximum

SPECIFICATIONS OF STANDARD EQUIPPED TRUCKS
PARTS AND SETTINGS EXCEPTIONS MODEL EE-3 STANDARD CARBURETOR

1933 DART TRUCK
4⅜"x5⅛"—6-Cylinder (Wauk 6-125 Engine)
F-2714 EE-3 Carburetor (Code No 57-3-A)

Std Part No	Parts Used on Above Model Truck	
P-15477	P-15477	No 48 Idle Air Bleed
P-17004	P-17004	062 Main Metering Jet
P-17769	P-17769	No 66 Pump Discharge Nozzle
P-18130	P-16978	Main Jet Plug
P-18176	P-17392	Throttle Valve Body, No 56-58 Idle Holes
P-18178	P-17007	Idle Tube, No 70 Feed Hole
P-18713	P-18713	Main Body 1 1/16' Venturi No 65 H S Bleeder

REPLACEMENT EQUIPMENT

PARTS AND SETTINGS EXCEPTIONS MODEL EE-3 STANDARD CARBURETOR

(Passenger Cars)

CHRYSLER 1931-32 MODELS "CH" & "CL" & "CG"

3½"x5"—8-Cylinder Engine

J-4283 EE-3 Carburetor and Equipment (Code No 4-8)

Std. Part No	Special Part	No. Used on Above Model Cars
P-18130	P-16978	Main Jet Plug
P-18585	P-18813	Air Horn (Complete)
P-18738	P-18212	Choke Stem and Stop
P-18740	P-18180	Air Horn (Casting)
None Shown	P-17067	Choke Tube Holder
None Shown	P-17093	Choke Tube Holder Attaching Screw
None Shown	P-17068	Choke Stem Return Spring
None Shown	P-17053	Choke Lever
None Shown	P-17059	Choke Lever Fulcrum Screw
None Shown	P-17132	Choke Lever Return Spring
None Shown	P-17058	Choke Lever Bushing

EQUIPMENT

P-18806 Throttle Rod—P-18807 Throttle Rod—P-10046 Bell Crank—P-18810 Bracket—P-18808 Stud—P-9882 Nut—P-3157 Lockwashers—P-13041 Fillister Head Screws—P-11250 Washer—P-7170 Cotter Pin—P-6592 Lockwashers—P-18809 Gas Line

LINCOLN CAR 1931-32

3½"x5"—8 Cylinders

J-4595 EE-3 Carburetor (Code No 40-12)

Std Part No	Special Parts	Used on Above Model Car
P-18130	P-16978	Main Jet Plug
P-18476	P-17706	Throttle Lever and Stem
P-18736	P-17392	Throttle Valve Body with No 56-58 Idle Holes
P-18738	P-21798	Choke Stem
P-18740	P-21789	Air Horn
None Shown	P-16030	Choke Stem Bushing
None Shown	P-16039	Choke Stem Spring
None Shown	P-15848	Choke Lever
None Shown	P-16056	Choke Tube Holder
None Shown	P-15920	Choke Tube Holder Attach Screw

EQUIPMENT

P-21706 Throttle Rod Assem—P-21703 Bell Crank—P-12250 Bell Crank Stud—P-3187 Nut—P-6592 Lockwasher—P-6068 Washer—P-5558 Nut (Note Twist Rod on Car 90°)

LINCOLN 1932

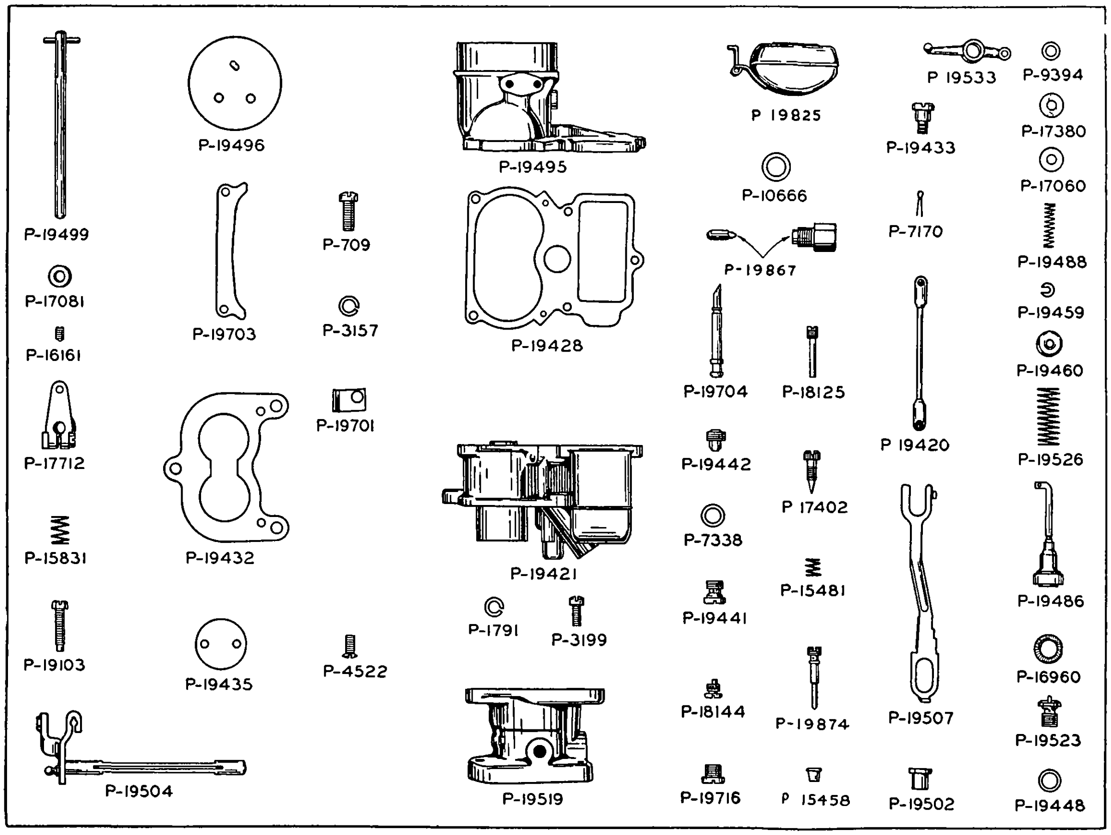
3¼"x4½"—12 Cylinders

J-4604 EE-3 Carburetor (Code No 40-14)

Std Part No	Special Parts	Used on Above Model Car
P-17004	P-17004	056 Metering Jet
P-17454	P-17769	No 65 Pump Nozzle
P-17969	P-18413	No 28-36 Main Discharge Jet
P-18130	P-16978	Main Jet Plug
P-18476	P-17706	Throttle Lever and Stem
P-18585	P-21713	Air Horn with Valve Complete
P-18736	P-17392	Throttle Valve Body with No 56-58 Idle Holes and Flange Drilled 11/32 (4 Holes)
P-18738	P-21798	Choke Stem
P-18740	P-21789	Air Horn
P-18915	P-18928	Float Needle Valve and Seat
None Shown	P-16030	Choke Stem Bushing
None Shown	P-16039	Choke Stem Spring
None Shown	P-15848	Choke Lever
None Shown	P-16056	Choke Tube Holder
None Shown	P-15920	Choke Tube Holder Attach Screw
None Shown	P-3221	Elbow Union

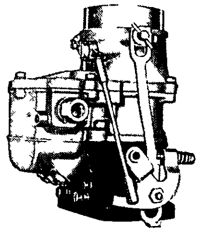
EQUIPMENT

P-17757 Throttle Lever—P-8935 Throttle Lever—P-16763 Torsion Spring—P-6666 Cotter Pin—P-21940 Throttle Rod—P-21937 Throttle Shaft—P-9736 Collar—P-21935 Bracket—P-17187 Pin—P-5015 Collar Set Screw



EE-1 N . A-17601

1" DUAL CARB.



Notes and References

Car models having this carburetor with parts exceptions therefor are shown on back of this page

†These parts not illustrated

‡Indicates Sub assembly part

PARTS LIST STROMBERG MODEL "EE-1" CARBURETOR (As Used on Oldsmobile L-34 1934)

Part No	Name	
P-709	Main Body Attaching Screw	
P-1791	Air Horn Attaching Screw Lockwasher	
P-3157	Main Body Att Screw Lockwasher	
P-3199	Air Horn Attaching Screw	
P-4522	Choke Valve Attach Screw	
P-4522	Throttle Valve Screw	
P-7170	Pump Link Cotter Pin	
P-7338	Main Discharge Jet Plug, Pump Ch Valve Plug Gasket	
P-10666	Float Needle Seat Gasket	
P-15831	Idle Adj Screw Spring	
P-15458	Idle Discharge Channel Plug	
P-15481	Idle Needle Valve Spring	
P-16161	Choke Stem Collar Set Screw	
P-17060	Pump Link Splash Washer	
P-17081	Choke Stem Collar	
P-17380	Pump Link Felt Washer	
P-17402	Idle Needle Valve	
P-17712	Choke Lever	
‡P-18300	Choke Lever Clamp Screw	
‡P-18299	Choke Lever Clamp Screw Nut	
P-18125	Float Lever Fulcrum Screw	
P-18144	Pump Check Valve	
P-18772	Idle Air Bleed Chan and Pump Dis Chan Plug	
P-19103	Idle Adj Screw	
P-19420	Pump Rod	
*P-19421	Main Body (Complete)	(VAR)
‡P-19429	Pump Discharge Tube	
‡P-19430	Pump Discharge Tube Wedge	
P-19428	Air Horn Gasket	
P-19432	Main Body Gasket	
P-19433	Pump Lever Fulcrum Screw	
*P-19435	Throttle Valve	(VAR)

Part No	Name	
P-19441	Main Discharge Plug	
*P-19442	Main Metering Jet	(VAR)
P-19448	By-Pass Jet Gasket	
P-19459	Pump Piston Link Washer	
P-19460	Pump Piston Spring Washer	
P-19486	Piston and Link	
‡P-16960	Pump Piston Leather Expansion Spring	
P-19488	Pump Piston Link Spring	
†P-19494	Air Horn Assembly	
‡P-17996	Fast Idle Lever Bushing	
P 19495	Air Horn	
P-19496	Choke Valve	
P-19499	Choke Stem and Pin	
‡P-19501	Choke Stem Pin	
P-19504	Throttle Lever and Stem	
‡P-19509	Ball Joint Head	
P-19507	Fast Idle Link	
*P-19519	Throttle Valve Body	(VAR)
P-19502	Fast Idle Lever Bushing	
P-19523	By-Pass Jet	
†P-19525	Pump Piston and Link Assembly	
P-19526	Pump Piston Spring	
P-19533	Pump Lever	
P-19701	Return Spring Clip	
P-19703	Float Chamber Baffle Plate	
P-19704	Main Discharge Jet	
P-19716	Check Valve Plug	
P-19819	Choke Lever Fulcrum Screw	
P-19825	Float	
P-19867	Float Needle Valve and Seat	
P-19873	Vent Screen	
P-19874	Idle Tube	

J-4383-G EE 1 Complete Gasket Set

*NOTE On parts marked (VAR) size must be specified when ordering

STANDARD SPECIFICATIONS

OLDSMOBILE 1934 "L-34" (404300)

3"x4¼"—8 Cylinder

A-17601 EE-1 Carburetor (Code No 5-1)

P-19421	Main Body with 1 1/32" Venturi, No 65 H S Bleeder and No 42 Idle Air Bleed
P-19435	Throttle Valve (5°)
P-19442	049 Meter Jet
P-19519	Throttle Valve Body with No 56-60 Idle Holes
P-19523	1 No 64 By Pass Jet
P-19704	No 36 Main Disc Jet
P-19874	Idle Tube with No 70 Feed Hole

STANDARD SETTINGS FOR EE-1 CARBURETOR

Throttle Valve Location Upper lip of Throttle Valve to be 030 plus or minus 006 below lower edge of upper idle hole

Pump Capacity 11 to 15 CC (Fast), and 17 to 21 CC (Slow) per 10 strokes

Economizer Setting Pump Piston to rest on seat of By-Pass Jet (Less over travel) with Throttle Valve cracked open with a 21/64' drill plus or minus 1/64

Fuel Level 15/32 below top face of Float Chamber at 3 lbs pressure

SPECIFICATIONS OF STANDARD EQUIPPED PASSENGER CARS PARTS AND SETTINGS EXCEPTIONS MODEL EE-1 STANDARD CARBURETOR

AUBURN 1934 35-36 MODELS "8-50-Y" & "853" (J-10196)

3 1/16"x4¾"—8 Cylinder

A-17611 EE-1 Carburetor (Code No 17-1)

Std Part No	Special Parts Used on Above Model Car	
P-17712	P-17053	Choke Lever
P-19442	P-19442	050' Main Metering Jet
P-19494	P-19726	Air Horn (Complete)
P-19495	P-19748	Air Horn Casting
P-19499	P-19753	Choke Stem and Lever
P-19504	P-20462	Throttle Lever and Stem
P-19507	P-20460	Fast Idle Link
P-19523	P-19724	1 No 61 Hole By-Pass Jet
P-19704	P-19440	No 36 Main Discharge Jet
P-19825	P-17486	Float
P-19867	P-18914	Float Needle Valve and Seat Assy
P-19874	P-19424	Idle Tube with No 70 Feed Hole
P-20266	P-19746	Choke Valve
None Shown	P-17067	Choke Tube Holder
None Shown	P-17093	Choke Tube Holder Attaching Screw
None Shown	P-17058	Choke Lever Bushing
None Shown	P-17132	Choke Lever Return Spring
None Shown	P-17059	Choke Lever Fulcrum Screw
None Shown	P-17068	Choke Valve Return Spring
None Shown	P-19501	Choke Stem Pin
None Shown	P-19710	Flange Gasket (Send Separate)

BUICK MOTOR CAR CO 1934-35 MODEL '8-40" (1288726)

3 3/32' x3⅞"—8 Cylinder

A-17671 EE-1 Carburetor (Code No 7-1)

Std Part No	Special Part Used on Above Model Car	
P-709	P-13041	Main Body Attaching Screws
P-4522	P 20904	Throttle Valve Screw
P-17402	P-15478	Idle Needle Valve
P-19103	P-20424	Fill Head Screw
P-19420	P-20458	Pump Rod
P-19421	P-20411	Main Body with 1 1/32' Venturi and No 70 H S Bleeder
P-19432	P-20455	Main Body Gasket
P-19435	P-20437	Spec Throttle Valve with No 53 Hole
P-19441	P-20447	Main Discharge Jet Plug
P-19494	P 20407	Air Horn with Valve (Comp)
P-19495	P-20423-T	Air Horn
P-19499	P-20410	Choke Lever and Stem
P-19504	P-20415	Stem and Pump Lever
P-19519	P-20990	Throttle Valve Body with No 56-60 Idle Holes No 54 Idle Air Bleed and No 58 Auto Spark Hole 041 plus or minus 004 above Throttle Valve
P-19525	P-20441	Pump Piston and Link
P-19533	P-19427	Pump Lever
P-19704	P-20420	No 32-36 Main Discharge Jet
P-19867	P-21659	Float Needle Valve and Seat
P-19874	P-20419	Idle Tube with No 55 Feed Hole and No 70 Idle Air Bleed
J-4383-G	J-4538-G	Complete Gasket Set
None Shown	P-20421	Lead Gasket (Main Disch Jet)
None Shown	P-20416	Throttle Lever
None Shown	P-20422	Throttle Lever Spring
None Shown	P 20454	Drive Plugs

Furnished separately
1 P-20434 Thermostat Unit (Fast Idle)

NOTE Thermostat Setting At a temperature of 70° F pointer to be 25° plus or minus 5° to the left of first step on cam

NOTE Pump Capacity 9 to 13 CC (Fast) and 18 to 22 CC (Slow) per 10 strokes

BUICK 1934-35 MODEL "8-40" (1289117) WITH NEW TRIPLEX AIR CLEANER

3-3/32 x3⅞"—8 Cylinder

A-17681 EE-1 Carburetor (Code No 7-2)

Same as A-17671 Except P-19442 045" Main Metering Jet
NOTE Settings same as A-17671

BUICK 1936 MODEL "40" (1295087)

With Triplex Air Cleaner No 1526654

3-3/32"x3⅞"—8 Cylinders

A-18171 EE 1 Carburetor (Code No 7-9)

Same as A-18181 Except P-19442 045 Metering Jet
NOTE Settings same as A-17671

BUICK 1936 MODEL "40' (1293351)

3 3/32"x3⅞"—8 Cylinder

A 18181 EE 1 Carburetor (Code No 7-5A)

Std Part No	Special Parts Used on Above Model Car	
P 709	P-13041	Main Body Attaching Screw
P 4522	P-20904	Throttle Valve Screw
P-7338	P-2886	Main Jet Plug Gasket
P 17402	P-15478	Idle Needle Valve
P-19103	P-21668	Idle Adjusting Screw
P-19420	P-20458	Pump Rod
P-19421	P-21532	Main Body 1 1/32 Venturi No 70 High Speed Bleeder
P-19432	P-21529	Main Body Gasket
P-19435	P-20437	Throttle Valve 5°
P-19441	P-22019	Main Discharge Jet Plug
P-19442	P-19442	048 Metering Jet
P-19486	P-20440	Pump Piston and Stem **Only** …. .. ….
P-19494	P 20407	Air Horn with Valve (Complete)
P-19495	P-20423-T	Air Horn Casting
P-19496	P-20266	Choke Valve
P-19499	P-20410	Choke Lever and Stem
P-19504	P-20415	Throttle Stem and Pump Lever
P-19519	P-20990	Throttle Valve Body with No 56-60 Idle Holes No 54 Idle Air Bleeder and No 58 Vac Spark Hole 041 Above Throttle Valve
P-19525	P-20441	Pump Piston and Link Assembly
P-19533	P-19427	Pump Lever
P-19704	P-21530	No 32-36 Main Discharge Jet
P-19867	P-21659	Float Needle Valve and Seat
P-19874	P-21528	Idle Tube with No 55 Feed Hole and No 70 Idle Air Bleeder Hole
J-4383-G	J-4599-G	Complete Gasket Set
None Shown	P-20421	Lead Gasket
None Shown	P-20416	Throttle Lever
None Shown	P-20422	Throttle Lever Spring
None Shown	P-20454	Idle Channel Plug (17/64)

Furnished separately
1 P-20434 Thermostat Unit (Fast Idle)

BUICK 1936 MODEL "40" (1293507)

With Triplex Air Cleaner

3-3/32"x3⅞"—8 Cylinders

A-18191 EE-1 Carburetor (Code No 7-7)

Same as A-18181 Except P-19442 044 Metering Jet
NOTE Settings same as A-17671

SPECIFICATIONS OF STANDARD EQUIPPED PASSENGER CARS

PARTS AND SETTINGS EXCEPTIONS MODEL EE-1 STANDARD CARBURETOR (Continued)

NASH 1935-36 MODELS "3580" & "3680" (48201-A)

3⅛"x4¼"—8 Cylinder

A-18061 EE-1 Carburetor

Std. Part No	Special Part No	Used on the Above Model Car
P-709	P-13041	Main Body Attach Screw (¼-20)
P-7170	112-S-22	Pump Cotter Pin
P-17712	P-17053	Choke Lever
P-19103	P-20424	Fill Head Screw No 10-32
P-19420	P-20984	Pump Rod
P-19421	P-21001	Main Body, $1\frac{1}{32}$' Venturi, No 70 H S Bleeder
P-19433	P-20611	Fulcrum Screw
P-19435	P-20720	(5°) Throttle Valve
P-19441	P-20477	Main Metering Jet Plug
P-19442	P-19442	048" Main Metering Jet
P-19494	P-20999	Air Horn (Complete)
P-19495	P-20993-A	Air Horn (Casting)
P-19499	P-20995	Choke Stem
P-19504	P-21061	Throttle Stem and Stop
P-19519	P-20802	Throttle Valve Body, No 56-60 Idle Holes, No 42 Idle Air Bleed
P-19523	P-19447	1-(No 63 Hole) By-Pass Jet
P-19525	P-20970	Pump Piston and Link
P-19704	P-20853	No 32-36 Main Discharge Jet
P-19874	P-20419	Idle Tube, No 55 Feed Hole, No 70 Idle Air Bleed
P-20266	P-19746	Choke Valve
None Shown	P-17391	Choke Tube Holder
None Shown	P-17068	Choke Valve Return Spring
None Shown	P-17132	Choke Lever Return Spring
None Shown	P-17059	Choke Lever Fulcrum Screw
None Shown	P-17058	Choke Lever Bushing
None Shown	P-17093	Choke Tube Holder Attaching Screw
None Shown	P-10495	Pump Stem Washer
None Shown	P-20421	Main Discharge Jet Lead Gasket
None Shown	P-20454	Throttle Valve Body Drive Plug

NOTE Pump Capacity 13 to 17 CC (Fast) and 21 to 25 CC (Slow) per 10 strokes Max Pump Travel)

NOTE Pump Travel Setting Maximum between Oct 1st and Mar 31st Minimum between April 1st and Sept 30th

NOTE Economizer Setting Same as Standard using 7/32" drill plus or minus 1/64'

NOTE Fuel Level 1/

NASH 1937 MODEL "3780" (92369)

3⅛"x4¼"—8 Cyl Engine

A-18141 EE-1 Carburetor (Code No 8-27)

Std. Part No	Special Part No	Used on Above Model Car
P-709	P-13041	Main Body Attaching Screw
P-7170	112-S-22	Pump Link and Pump Rod Cotterpin
P-17712	P-17053	Choke Lever and Wire Connector Assy
P-19103	P-15456	Idle Adj Screw
P-19420	P-20984	Pump Rod Assy
P-19421	P-21001	Main Body Assy $1\frac{1}{32}$" Venturi No 70 H S Bleeder No 65 p d Noz
P-19429	P-20435	Pump Discharge Tube No 65 (right)
	P-20436	Pump Discharge Tube No 65 (left)
P-19435	P-20720	Throttle Valve 5°
P-19441	P-20447	Main Discharge Jet Plug
P-19442	P-19442	048" Metering Jet
P-19486	P-20986	Pump Piston and Link Assy
P-19494	P-22727	Air Horn and Valve Assy
P-19495	P-22728-A	Air Horn
P-19499	P-22730	Choke Stem and Lever Assy
P-19504	P-22721	Throttle Lever and Stem
P-19519	P-22734	Throttle Body No 56-60 Idle Holes No 54 I A Bleed
P-19523	P-19447	By Pass Jet No 63 Hole
P-19525	P-20970	Pump Piston Link and Spring Assy
P-19533	P-19427	Pump Lever
P-19874	P-20419	Idle Tube and Holder
P-20266	P-19746	Choke Valve Assy
None Shown	P-20421	Main Discharge Jet Lead Gasket
None Shown	P-10495	Pump Rod Washer
None Shown	P-17391	Choke Tube Holder Assy
None Shown	P-11561	Choke Tube Holder Clamp
None Shown	P-12868	Choke Tube Holder Clamp Screw
None Shown	P-8806	Choke Tube Holder Clamp Screw Nut
None Shown	P-12867	Choke Wire Connector Screw
None Shown	P-17059	Choke Lever Fulcrum Screw
None Shown	P-17132	Choke Lever Return Spring
None Shown	P-17058	Choke Lever Fulcrum Screw Bushing
None Shown	P-17068	Choke Lever Return Spring
None Shown	P-22732	Choke Tube Holder Attach Screw
None Shown	P-22733-A	Choke Tube Holder Spacer

NOTE Fuel Level ½" Below Top Face of Float Chamber at 3 Pounds Pressure

NOTE Pump Travel Setting Maximum Between Oct 1 and March 31 Minimum Between April 1 and Sept 30

NASH 1937 MODEL "3780" (93376)

With Oil Bath Air Cleaner

3⅛"x4¼ —8 Cyl. Engine

A-18151 EE-1 Carburetor (Code No. 8-28)

Std Part No	Special Part No.	Used on Above Model Car
P-709	P-13041	Main Body Attaching Screw
P-7170	112-S-22	Pump Link and Pump Rod Cotter Pin
P-17712	P-17053	Choke Lever and Wire Connector Assy
P-19103	P-15456	Idle Adj Screw
P-19420	P-20984	Pump Rod Assy
P-19421	P-21001	Main Body Assy $1\frac{1}{32}$ Venturi, No 70 H S Bleeder No 65 P D Noz
P-19429	P-20435	Pump Discharge Tube No 65 (Right)
	P-20436	Pump Discharge Tube No 65 (Left)
P-19435	P-20720	Throttle Valve 5 Deg
P-19441	P-20447	Main Discharge Jet Plug
P-19442	P-19442	047 Metering Jet
P-19486	P-20986	Pump Piston and Link Assy
P-19494	P-22727	Air Horn and Valve Assy
P-19495	P-22728-A	Air Horn
P-19499	P-22730	Choke Stem and Lever Assy
P-19504	P-22721	Throttle Lever and Stem
P-19519	P-22734	Throttle Body No 56-60 Idle Holes, No 54, I A Bleed
P-19523	P-19447	By Pass Jet No 63 Hole
P-19525	P-20970	Pump Piston Link and Spring Assy
P-19533	P-19427	Pump Lever
P-19874	P-20419	Idle Tube and Holder
P-20266	P-19746	Choke Valve Assy
None Shown	P-20421	Main Discharge Jet Lead Gasket
None Shown	P-10495	PumpRod Washer
None Shown	P-17391	Choke Tube Holder Assy
None Shown	P-11561	Choke Tube Holder Clamp
None Shown	P-12868	Choke Tube Holder Clamp Screw
None Shown	P-8806	Choke Tube Holder Clamp Screw Nut
None Shown	P-12867	Choke Wire Connector Screw
None Shown	P-17059	Choke Lever Fulcrum Screw
None Shown	P-17132	Choke Lever Return Spring
None Shown	P-17058	Choke Lever Fulcrum Screw Bushing
None Shown	P-17068	Choke Lever Return Spring
None Shown	P-22732	Choke Tube Holder Attach Screw
None Shown	P-22733-A	Choke Tube Holder Spacer

NOTE Fuel Level ½" below top face of float chamber at 3 pounds pressure

NOTE Pump Travel Setting Maximum between Oct 1 and March 31 minimum between April 1 and Sept 30

OLDSMOBILE 1935 MODEL "L-35" (406480)

3'x4¼"—8 Cylinder

A-18021 EE-1 Carburetor (Code No 5-5)

Std Part No	Special Part No	Used on Above Model Car
P-4522	P-20738	Choke Valve Screw
	P-20883	Choke Valve Screw Lockwasher
P-17402	P-15478	Idle Needle Valve
P-19421	P-20751	Main Body, $1\frac{1}{32}$" Venturi, No 70 H S Bleeder
P-19429	P-20435	Pump Tube (Right)
	P-20436	Pump Tube (Left)
P-19435	P-20720	(5°) Throttle Valve
P-19445	P-20910	Air Horn with Venturi
P-19459	P-22046	Horseshoe Washer
P-19460	P-22045	Pump Spring Washer
P-19494	P-20708	Air Horn (Complete)
P-19499	P-20704	Choke Lever and Stem
P-19504	P-20719	Throttle Lever and Stem
P-19507	P-20715	Fast Idle Lever
P-19519	P-20987	Throttle Valve Body No 54-60 Idle Holes No 50 Idle Air Bleeder
P-19523	P-19447	(1-No 63 Hole) By-Pass Jet
P-19525	P-20754	Pump Piston and Link
P-19533	P-19427	Pump Levers
P-19704	P-20753	No 32-36 Main Discharge Jet
P-19874	P-20772	Idle Tube No 68 Feed Hole, No 55 Idle Air Bleed
P-20266	P-20684	Choke Valve
J-4383-G	J-4539-G	Complete Gasket Set
None Shown	P-20737	Choke Lever Ball Joint Connector
None Shown	P-6668	Choke Lever Ball Joint Conn Lkwshr
None Shown	P-20837	Choke Lever Collar
None Shown	P-20707	Choke Valve Stop Pin
None Shown	P-20750	Throttle Valve Body ($\frac{7}{16}$) Drive Plug
None Shown	P-20749	Fast Idle Rod
None Shown	P-20713	Fast Idle Cam
None Shown	P-20745	Fast Idle Lever Fulcrum Screw
None Shown	P-20744	Fast Idle Lever Fulcrum Scr Washer
None Shown	P-19587	Fast Idle Lever Fulcrum Screw
None Shown	P-20421	Main Discharge Jet Lead Gasket

NOTE P-20715 redesigned (A)

SPECIFICATIONS OF STANDARD EQUIPPED PASSENGER CARS
PARTS AND SETTINGS EXCEPTIONS MODEL EE-1 STANDARD CARBURETOR (Continued)
(Passenger Cars)

STUDEBAKER CORPORATION 1935
"C" PRESIDENT AND "B" COMMANDER (184717)

$3\frac{3}{16}$"x4¼"—8 Cylinder

A-17661 EE-1 Carburetor (Code No. 6-10-A)

Std Part No	Part Used on Above Model Car	
P-17712	P-18110	Choke Lever (Comp)
P-19103	P-21141	Idle Adjusting Screw
P-19421	P-20601	Main Body with $1\frac{1}{32}$ Venturi No 70 H S Bleeder and No 44 Idle Air Bleed
P-19433	P-20611	Pump Fulcrum Screw
P-19442	P-19442	047' Metering Jet
P-19494	P-20487	Air Horn and Valve (Comp)
P-19495	P-20878	Air Horn and Vent
P-19499	P-20610	Choke Stem and Pin
P-19504	P-20497	Throttle Lever and Stem
P-19507	P-20490	Fast Idle Link
P-19523	P-19447	By-Pass Jet
P-19525	P-20441	Pump Piston and Link
P-19704	P-20646	No 32-36 Main Discharge Jet
P-19867	P-21519	Float Needle Valve and Seat (A)
P-19874	P-20614	Idle Tube with No 70 Feed Hole
P-20266	P-20607	Choke Valve

Furnished separately 1 P-20489 Choke Rod

NOTE Pump Capacity 9-12 CC (Fast) and 14-18 CC (Slow) per 10 Strokes

NOTE A-17590 Auto Choke used with this carburetor

STUDEBAKER CORP. 1936 MODEL "C" PRESIDENT (188782)

$3\frac{1}{16}$"x4¼"—8 Cylinders

A-17931 EE-1 Carburetor (Code No 6-52)

Starting with Studebaker Motor No B-11876

Std Part No	Special Parts Used on Above Model Car	
P-709	P-22025	Main Body Attaching Screw
P-17712	P-18110	Choke Lever
P-19103	P-21141	Idle Adj Screw
P-19420	P-22026	Pump Rod
P-19421	P-22029	Main Body with $1\frac{1}{32}$ Venturi No 70 H S Bleeder No 65 Pump Nozzle and No 44 Idle Air Bleeder
P-19428	P-21738	Air Horn Gasket
P-19442	P-19442	047' Metering Jet
P-19494	P-22036	Air Horn with Valve Complete
P-19495	P-22037-T	Air Horn
P-19499	P-22033	Choke Stem
P-19504	P-20719	Throttle Lever and Stem
	‡P-19509	Ball Connector
P-19519	P-22031	Throttle Valve Body with No 56-60 Idle Holes
P-19523	P-19447	By-Pass Jet (1 No 63)
P-19525	P-20441	Pump Piston and Link
P-19533	P-19427	Pump Lever
P-19704	P 20646	No 32-36 Main Discharge Jet
P-19867	P-21519	Float Needle Valve and Seat
P-19874	P-20614	Idle Tube
P-20266	P-20607	Choke Valve
J-4383-G	J-4780-G	Complete Gasket Set
None Shown	P-20608	Air Horn Vent
None Shown	P-22024	Main Body Gasket (Insulator)
None Shown	P-22032	Fast Idle Rod
None Shown	P-19587	Fast Idle Rod Lock Nut
None Shown	P-7170	Fast Idle Rod Cotter Pin
None Shown	P-20489	Choke Rod (Send Separate)
None Shown	P-20713	Fast Idle Cam
None Shown	P-20745	Fulcrum Screws
None Shown	P-20744	Fulcrum Screw Washer
None Shown	P-20715	Fast Idle Lever
None Shown	‡P-19575	Ball Joint
None Shown	‡P-17761	Ball Joint

NOTE Pump Capacity 9-12 CC (Fast) and 14-18 CC (Slow) per 10 strokes

NOTE A-17940 Auto Choke Used with this Carburetor

STUDEBAKER 1936 MODEL "PRESIDENT C" (188120)

$3\frac{1}{16}$"x4¼"—8 Cylinder Own "C" Engine

A 17921 EE-1 Carburetor (Code No 6-50)

Std Part No	Special Parts Used on Above Model Car	
P-19403-T	P-21746-T	Air Horn
P-19407	P-20610	Choke Stem and Pin
P-19410	P-20607	Choke Valve
P-19421	P-20601	Main Body with $1\frac{1}{32}$ Venturi No 70 H S Bleeder and No 44 Idle Air Bleeder
P-19428	P-21738	Air Horn Gasket
P-19433	P-20611	Pump Lever Fulcrum Screw
P-19442	P-19442	047 Metering Jet
P-19486	P-20440	Pump Piston and Link
P-19494	P-21740	Air Horn with Valve (Complete)
P-19504	P-20497	Throttle Lever and Stem
P-19507	P-20490	Fast Idle Link
P-19523	P-19447	By-Pass Jet (1 No 63)
P-19525	P-20441	Pump Piston Link and Spring (Com)
P-19526	P-19458	Pump Piston Follow Up Spring
P-19702	P-20646	No 32-36 Main Discharge Jet
P-19867	P-21651	Float Needle Valve and Seat
P-19874	P-20614	Idle Tube with No 70 Feed Hole
J-4383-G	J-4780-G	Complete Gasket Set
None Shown	P-21141	Idle Adjustment Screw
None Shown	P-15831	Idle Adjustment Screw Spring
None Shown	P-19509	Throttle Ball Connector
None Shown	P-18110	Choke Lever
None Shown	P-20608	Float Chamber Vent
None Shown	P-17081	Choke Stem Collar
None Shown	P-20489	Choke Rod (Furnished Separately)

NOTE Pump Capacity 9-12 CC (Fast) and 14-18 CC (Slow) per 10 Strokes

NOTE A-17590 Auto Choke Used with this Carburetor

STUDEBAKER 1937 MODEL "3-C" PRESIDENT (190108)

$3\frac{1}{16}$ x4¼"—8 Cyl Engine

A-18401 EE-1 Carburetor (Code No 6 63)

Std Part No	Special Parts Used on Above Model Car	
P-17712	P-18110	Choke Lever Assy
P-19103	P-21141	Idle Adj Screw
P-19420	P-22026	Pump Rod Assy
P-19421	P-22029	Main Body Assy $1\frac{1}{32}$ Venturi No 70 Bleeder No 44 I A Bleed, No 65 P D Nozzle
P-19428	P-19428	Air Horn Gasket
	P-21738	Air Horn Gasket
P-19429	P-20435	Pump Discharge Tube No 65 (Right)
	P-20436	Pump Discharge Tube, No 65 (Left)
P-19486	P-20440	Pump Piston and Link Assy
P-19494	P-22036	Air Horn and Valve Assy
P-19495	P-22037	Air Horn
P-19496	P-20607	Choke Valve Assy
P-19499	P-22033	Choke Stem and Lever
P-19504	P-20719	Throttle Lever and Stem Assy
P-19519	P-22648	Throttle Body No 56-60 Idle Holes, 2 No 50 Vac Spark Holes flush with upper edge of closed Throttle Valve
P-19523	P-19447	By Pass Jet 1 No 63 Hole
P-19525	P-20441	Pump Piston Link and Spring Assy
P-19533	P-19427	Pump Lever
P-19867	P-21519	Float Needle Valve and Seat
P-19874	P-20614	Idle Tube and Holder Assy No 70 Feed Hole
J-4383-G	J-4780-G	Complete Gasket Set
None Shown	P-20884	Vacuum Spark Control Boss Plug
None Shown	P-20454	Vacuum Spark and Idle Drilling Hole Drive Plug
None Shown	P-22034	Choke Lever Spacer Washer
None Shown	P-20608	Float Chamber Vent
None Shown	P-22032	Fast Idle Rod
None Shown	P-19587	Fast Idle Rod Lock Nut
None Shown	P-7170	Fast Idle Rod Cotter Pin
None Shown	P-20713	Fast Idle Cam
None Shown	P-20745	Fulcrum Screw
None Shown	P-20744	Fulcrum Screw Washer
None Shown	P-20715	Fast Idle Lever
None Shown	P-19575	Fast Idle Lever Ball Joint
None Shown	P-20489	Choke Rod Assy
None Shown	P-17761	Choke Rod Ball Joint

NOTE Pump Capacity 9 to 12 CC Fast, 14 to 18 CC slow per 10 strokes

NOTE Used in conjunction with A 17950 Automatic Choke

REPLACEMENT EQUIPMENT
PARTS AND SETTINGS EXCEPTIONS MODEL EE-1 STANDARD CARBURETOR

BUICK 1934 MODEL "40"

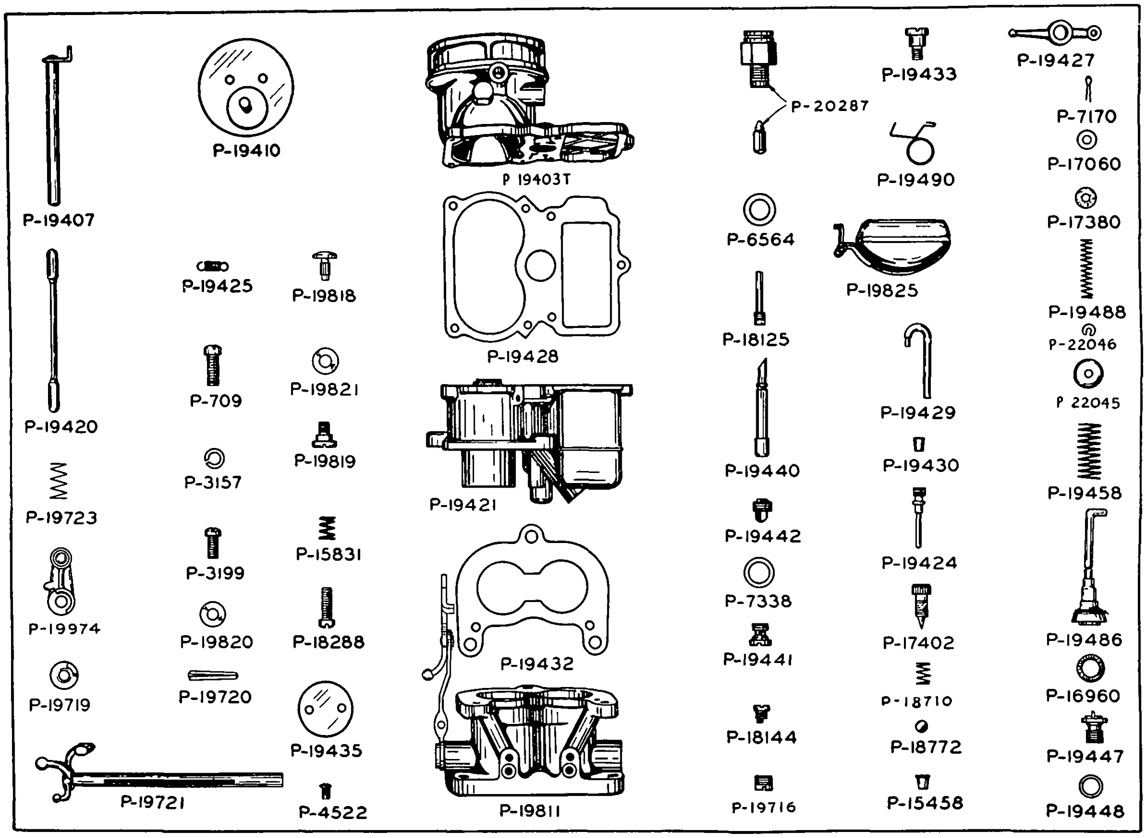
3-3/32"x3⅞"—8 Cylinder

J 4517 EE-1 Carburetor and Equipment (Code No 7-4)

Same as A-17671 with added equipment.

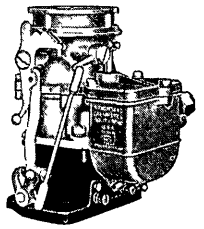
1—P-2714	Street Elbow
1—P-20849	Reducer

NOTE Settings same as A-17671



EE-1 N . A-17581

1" DUAL CARB.



Notes and References

Car models having this carburetor with parts exceptions therefor are shown on back of this page

†These parts not illustrated

‡Indicates Sub assembly part

PARTS LIST STROMBERG MODEL "EE-1" FORD CARBURETOR

Part No.	Name	
P-709	Main Body Attach Screw	
P-1791	Air Horn Attach Screw Lockwasher	
P-3157	Main Body Attach Screw Lockwasher	
P-3199	Air Horn Attach Screw	
P-4522	Choke Valve Screw	
P-6564	Float Needle Valve Seat Gasket	
P-7170	Pump Rod Cotter Pin	
P-7338	Main Discharge Jet Plug Gasket	
P-15458	Idle Discharge Channel Plug	
P-15831	Idle Adjustment Screw Spring	
P-17060	Pump Link Dust Washer	
P-17380	Pump Link Felt Washer	
P-17402	Idle Needle Valve	
P-18125	Float Lever Fulcrum Screw	
P-18144	Pump Check Valve	
P-18288	Idle Adjustment Screw	
P-18710	Idle Needle Valve Spring	
P-18772	Ball Plug	
P-19403-T	Air Horn	
†P-19404	Air Horn Assembly (Complete)	
P-19407	Choke Stop & Stem	
P-19410	Choke Valve (Comp)	
P-19420	Pump Rod	
*P-19421	Main Body (Comp)	(VAR)
‡P-19429	Pump Discharge Tube	
‡P-19430	Pump Discharge Tube Holder	
P-19424	Idle Tube	
P-19425	Choke Lever Return Spring	
P 19427	Pump Lever	
P-19428	Air Horn Gasket	

Part No	Name	
P-19432	Main Body Gasket	
P-19433	Pump Lever Fulcrum Screw	
*P-19435	Throttle Valve	(VAR.)
P-19440	Main Discharge Jet	
P-19441	Main Discharge Jet Plug	
*P-19442	Main Metering Jet	(VAR)
P-19447	By-Pass Jet	
P-19448	By-Pass Jet Gasket	
P-19458	Pump Piston Spring	
P-19486	Pump Piston & Link	
‡P-16960	Pump Piston Expansion Spring	
†P-19487	Pump Piston Assembly (Complete)	
P-19488	Pump Piston Link Spring	
P-19490	Pump Lever Spring	
P-19716	Check Valve Plug	
P-19719	Loose Lever Stop (Throttle)	
P-19720	Stop Pin	
P-19721	Throttle Lever & Stem	
P-19723	Loose Lever Helical Spring	
*P-19811	Thro Valve Body with Choke Lever and Link	(VAR)
‡P-19812	Choke Lever & Link	
‡P-19817	Bushing	
P 19818	Air Horn Stem Cap	
P-19819	Choke Lever Fulcrum Screw	
P-19820	Spring Washer (For P 19819)	
P-19821	Spring Washer (Choke Stem)	
P-19825	Float	
P-20287	Float Needle Valve and Seat	
P-20904	Throttle Valve Screw	
P-22045	Pump Piston Spring Washer	
P-22046	Pump Piston Link Washer	
P-19974	Loose Lever (Throttle)	

J-4383-G EE-1 Complete Gasket Set

***NOTE On parts marked (VAR) size must be specified when ordering**

STANDARD SPECIFICATIONS FOR FORD EE-1 CARBURETOR

FORD 1934 MODEL "V-8" (40-9510-D)
3 1/16′ x3¾″—8-Cylinder
A-17581 EE-1 Carburetor

P-19421	Main Body with 1 1/32 Venturi and No 65 H S Bleeder and No 42 Idle Air Bleeder No 60 Pump Discharge Nozzle
P-19440	No 36 Main Disch Jet
P-19442	048 Metering Jet
P-19447	By Pass Jet with 1 No 63 hole
P-19811	Thro Valve Body with No 56 60 Idle holes
P-19424	Idle Tube with No 70 feed hole
P 19435	Throttle Valve (5°)

STANDARD SETTINGS FOR EE-1 CARBURETOR (FORD)

Throttle Valve Location Upper lip of throttle valve to be 030 plus or minus 006 below lower edge of upper idle hole

Economizer Setting Pump piston to rest on seat of by-pass jet (less over travel) with throttle valve cracked open with a 19/64 drill plus or minus 1/64

Fuel Level 15/32′ below top face of float chamber at 3 lbs pressure

Pump Capacity 9 to 13 CC (Fast) and 13 to 17 CC (Slow) per 10 strokes

Slow Idle Screw 2¼ turns from closed throttle position

SPECIFICATIONS OF STANDARD EQUIPPED PASSENGER CARS PARTS AND SETTINGS EXCEPTIONS MODEL EE-1 CARBURETOR

FORD 1934 MODEL "V-8" (40-9510-E)
(High Altitude)
3 1/16 x3¾″—8 Cylinder Engine
A-17641 EE 1 Carburetor

Std Part No	Special Part No	Used on Above Model Car
P-19442	P-19442	046 Metering Jet

FORD 1935-36 MODEL "V-8' (48 9510 D)
3 1/16′ x3¾″—8 Cylinder Engine
A-17691 EE-1 Carburetor

Std Part No	Special Part No	Used on Above Model Car
P-19421	P-20691	Main Body with 1 1/32 Venturi, No 40 Idle Air Bleeder and No 65 H S Bleeder
P-19404	P-20694	Air Horn (Complete)
P-19403 R	P-20693-T	Air Horn (Casting)

FORD 1935-36 MODEL "V-8" (48-9510 E)
(High Altitude)
3 1/16′ x3¾″—8 Cylinder Engine
A-17741 EE-1 Carburetor

Std Part No	Special Part No	Used on Above Model Car
P-19421	P-20691	Main Body with 1 1/32 Venturi No 40 Idle A r Bleeder and No 65 H S Bleeder
P-19404	P-20694	Air Horn (Complete)
P-19403-R	P-20693-T	Air Horn (Casting)
P-19442	P-19442	046′ Metering Jet

FORD 1936 TRUCK & COMMERCIAL CAR (67 9510)
3 1/16″x3¾″—8 Cylinder
A-18221 EE 1 Carburetor

Std Part No	Special Parts	Used on Above Model Car
P-19403	P-21927-T	Air Horn Casting
P-19404	P-21928	Air Horn with Valve Complete
P-19420	P-21630	Pump Rod
P-19421	P-21950	Main Body with 31/32 Venturi No 65 High Speed Bleeder No 40 Idle Air Bleeder and No 60 Pump Nozzle
P-19442	P-19442	045 Metering Jet
P-19447	P-20467	By-Pass Jet (1 No 65)
P-19721	P-21625	Throttle Lever and Stem
P-19811	P-21925	Throttle Valve Body with No 56-60 Idle Holes
None Shown	P-21929	Choke Lever Lock Plunger
None Shown	P-21930	Choke Lever Lock Plunger Spring

NOTE Pump Capacity 11 to 15 CC (Fast) and 17 to 21 CC (Slow) per 10 Strokes (Maxmium Stroke)

NOTE Pump Travel Setting Minimum

FORD 1936-37 (67 9510-A)
(Normal Altitude)
3 1/16″x3¾ —8-Cylinder
A-18271-EE 1 Carburetor

Specifications Same as A-18221

FORD 1936 37 (67-9510-A)
(5000 to 10 000 Ft Altitude)
3 1/16″x3¾′ —8-Cylinder
A-18281 11-1 Carburetor

Specifications Same as A-18221 except 043″ Metering Jet

FORD 1936-37 (67-9510-C)
10,000 to 15,000 Ft Altitude
3 1/16 x3¾″—8-Cylinder
A-18291 EE-1 Carburetor

Specifications Same as A-18221 except 041″ Metering Jet

FORD 1936-37 (67-9510-D)
(15,000 Ft Altitude and Over)
3 1/16″x3¾′ —8-Cylinder
A 18301 EE 1 Carburetor

Specifications Same as A-18221 except 039″ Metering Jet

FORD 1936 MODEL "68" (68-9510)
3 1/16″x3¾″—8 Cylinder
A-18231 EE-1 Carburetor

Std Part No	Special Parts	Used on Above Model Car
P-19403 T	P-20693-T	Air Horn
P-19404	P-20694	Air Horn with Valve Complete
P-19420	P-21630	Pump Rod
P-19421	P-20691	Main Body with 1 1/32 Venturi No 65 High Speed Bleeder and No 40 Idle Air Bleeder and No 60 Pump Discharge Nozzle
P-19721	P-21625	Throttle Lever and Stem

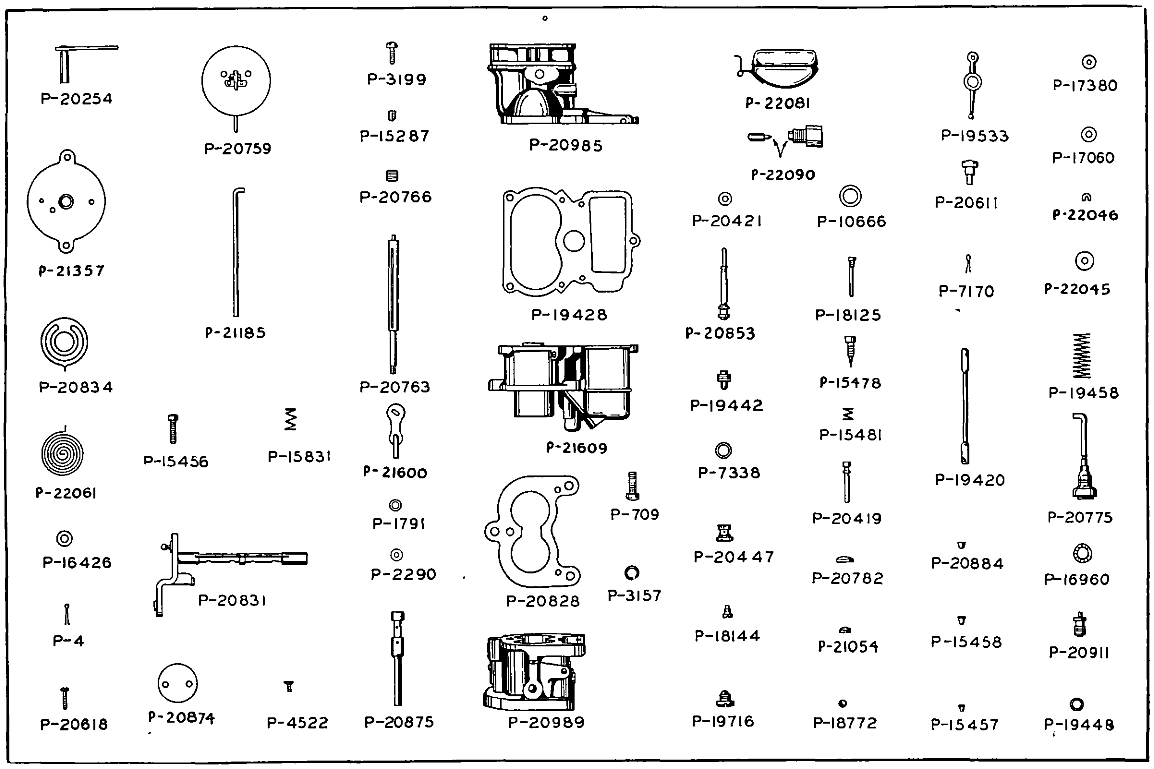
NOTE Pump Capacity 17 to 21 CC (Slow) 11 to 15 CC (Fast) per 10 Strokes (Maximum Pump Stroke)

NOTE Pump Travel Setting Minimum

LINCOLN 1935 MODEL "H-122" (H-9510)
1936 MODEL "H-901-Zephyr"
1937 MODEL "HB"
2 13/16′ x2¾″—12 Cylinder
A 18041 EE-1 Carburetor (Code No 40-11)

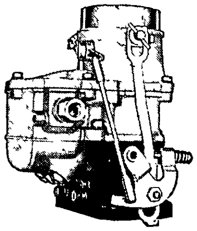
Std Part No	Special Parts	Used on Above Model Car
P-19403-T	P-21927-T	Air Horn
P-19404	P-21315	Air Horn with Valve (Complete)
P-19410	P-19407	Choke Valve
P-19421	P-22877	Main Body with 31/32 Venturi No 65 High Speed Bleeder and No 40 Idle Air Bleeder
P-19940	P-21317	No 32 36 Main Discharge Jet
P-19442	P-19442	046 Metering Jet
P-19447	P-20752	By-Pass Jet (1 No 60)
P-19486	P-22759	Pump Piston and Link
P 19487	P-22758	Pump Piston Link and Spring Assy
None Shown	P-21500	Choke Tube Holder
None Shown	P-13041	Choke Tube Holder Attach Screw
None Showo	P-19703	Air Horn Baffle Plate
None Shown	P-18288	Idle Adjustment Screw
None Shown	P-15831	Idle Adjustment Screw Spring

NOTE Pump Capacity 18 to 22 CC (Slow or Fast) per 10 strokes



EE-14 N . A-17701

1" DUAL CARB.



Notes and References: Car models having this carburetor with parts exceptions therefor are shown on back of this page.

†These parts not illustrated.

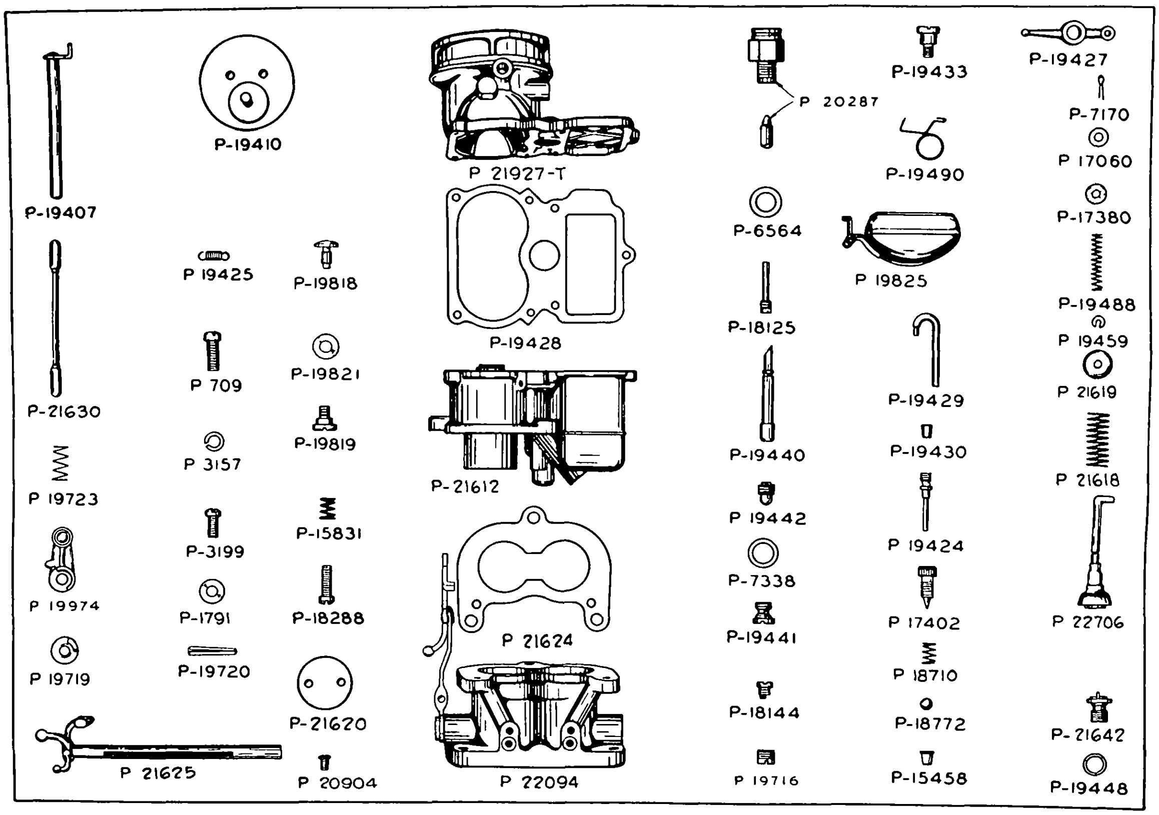
‡Indicates Sub-assembly part.

PARTS LIST STROMBERG MODEL EE-14 CARBURETOR (As used on "120" 1935 Packard)

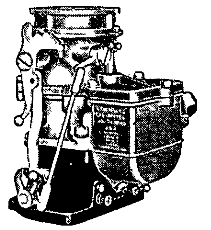
Part No.	Name
P-4	Thermostat Stem Cotter Pin
P-709	Main Body Attaching Screw
P-1791	Air Horn Attaching Screw Lockwasher
P-1791	Choke Stem Nut Lockwasher
P-2290	Choke Stem Nut
P-3157	Main Body Attaching Screw Lockwasher
P-3199	Air Horn Attaching Screw
P-4522	Choke Valve Screw
P-4522	Throttle Valve Screw
P-7170	Pump Link Cotter Pin
P-7338	Main Body Plug Gasket
P-7338	Main Discharge Jet Plug; Pump Check Valve Body Gasket
P-10666	Float Needle Valve Seat Gasket
P-15287	Air Horn Bearing Bushing Set Screw
P-15456	Throttle Stop Screw
P-15457	Throttle Valve Body, No. 6 Drive Plug
P-15458	Idle Discharge Channel Plug
P-15478	Idle Needle Valve
P-15481	Idle Needle Valve Spring
P-15831	Throttle Stop Screw Spring
P-16426	Thermostat Stem Washer
P-17060	Pump Link Splash Washer
P-17380	Pump Link Felt Washer
P-18125	Float Lever Fulcrum Screw
P-18144	Pump Check Valve
P-18772	Idle Air Bleed and Pump Discharge Channel Lead Ball
P-19420	Pump Rod
P-19428	Air Horn Gasket
*P-19442	Main Metering Jet (VAR.)
P-19448	By-Pass Jet Gasket
P-19458	Pump Piston Return Spring
†P-19488	Pump Link Spring
P-19533	Pump Lever
P-19716	Pump Check Valve Channel Plug
P-19825	Float (Changed to P-22081) (F)
P-19867	Float Needle Valve and Seat Assembly (Changed to P-22090) (F)
P-20254	Thermostat Lever and Stem
P-20419	Idle Tube
P-20421	Main Discharge Jet Lead Gasket
P-20447	Main Discharge Jet Channel Plug
†P-20454	T. V. Body Drive Plug (17/64")
P-20611	Pump Fulcrum Screw
P-20618	Thermostat Screw
P-20718	Thermostat (Changed to P-22061) (F)
†P-20756	Air Horn (Complete)
P-20759	Air Horn Valve (Assembly)
‡P-9283	Piston Valve Nut
‡P-20882	Piston Valve Screw
‡P-20883	Piston Valve Screw Lockwasher
‡P-20760	Piston Valve Leather
‡P-21010	Air Horn Valve with Bracket
P-20763	Choke Stem and Bearing
P-20766	Choke Stem and Bearing Bushing
P-20775	Pump Piston and Link
‡P-16960	Pump Piston Leather Expansion Spring
P-20782	Throttle Valve Body Expansion Plug
†P-20827	Thermostat Assembly (Complete)
P-20828	Main Body Gasket
P-20831	Throttle Lever and Stem (Complete)
‡P-19509	Throttle Lever Ball Joint Connector
P-20834	Thermostat Bracket
P-20853	Main Discharge Jet
*P-20874	Throttle Valve (VAR.)
P-20875	Vacuum Piston
†P-20879	Pump Piston and Valve Assembly
P-20884	Throttle Valve Body ¼" Drive Plug
P-20911	By-Pass Jet
†P-20973	Vacuum Pump Spit Rivet
P-20985	Air Horn with Vent and Bushings
‡P-21154	Air Horn Vent
‡P-20767	Air Horn Shoulder Bearing
‡P-20768	Air Horn Bearing Bushing
*P-20989	Throttle Valve Body with Idle Air Bleed (VAR.)
P-21054	Throttle Valve Body Expansion Plug
P-21185	Choke Rod
†P-21338	Therm. Stem Washer Cotter Pin
P-21357	Thermostat Cover with Bushing
P-21600	Choke Lever
‡P-19575	Choke Lever Ball Joint Connector
*P-21609	Main Body (Complete) (VAR.)
‡P-18772	Lead Balls
‡P-19430	Pump Discharge Tube Wedge
‡P-20435	Pump Discharge Tube (Right)
‡P-20436	Pump Discharge Tube (Left)
†P-21977	Float Needle Clip (F)
P-22045	Pump Piston Return Spring Cupped Washer
P-22046	Pump Piston Link Horse Shoe Washer

J-4540-G EE-14 Complete Gasket Set

***NOTE: On parts marked (VAR.) size must be specified when ordering.**



EE-⅞"N .A-17690



Notes and References

Car models having this carburetor with parts exceptions therefor are shown on back of this page

† These parts not illustrated

‡Indicates Sub-assembly part

PARTS LIST STROMBERG MODEL "EE-⅞" FORD CARBURETOR

Part No	Name	
P-709	Main Body Attach Screw	
P-1791	Air Horn Attach Screw Lockwasher	
P-3157	Main Body Attach Screw Lockwasher	
P-3199	Air Horn Attach Screw	
P-4522	Choke Valve Screw	
P-6564	Float Needle Valve Seat Gasket	
P-7170	Pump Rod Cotter Pin	
P-7338	Main Discharge Jet Plug Gasket	
P-15458	Idle Discharge Channel Plug	
P-15831	Idle Adjustment Screw Spring	
P-17060	Pump Link Dust Washer	
P-17380	Pump Link Felt Washer	
P-17402	Idle Needle Valve	
P-18125	Float Lever Fulcrum Screw	
P-18144	Pump Check Valve	
P-18288	Idle Adjustment Screw	
P-18710	Idle Needle Valve Spring	
P-18772	Ball Plug	
P-19407	Choke Stop and Stem	
P-19410	Choke Valve (Comp)	
P-19424	Idle Tube	
P-19425	Choke Lever Return Spring	
P-19427	Pump Lever	
P-19428	Air Horn Gasket	
P-19433	Pump Lever Fulcrum Screw	
P-19440	Main Discharge Jet	
P-19441	Main Discharge Jet Plug	
*P-19442	Main Metering Jet	(VAR)
P-19448	By Pass Jet Gasket	
P-19459	Pump Piston Link Washer	
P-19488	Pump Piston Link Spring	

Part No	Name	
P-19490	Pump Lever Spring	
P-19716	Check Valve Plug	
P-19719	Loose Lever Stop (Throttle)	
P-19720	Stop Pin	
P-19723	Loose Lever Helical Spring	
P-19818	Air Horn Stem Cap	
P-19819	Choke Lever Fulcrum Screw	
P 19821	Spring Washer (Choke Stem)	
P-19825	Float	
P-19974	Loose Lever (Throttle)	
P-20287	Float Needle Valve and Seat	
P-20904	Throttle Valve Screw	
*P-21612	Main Body Assy	(VAR)
‡P-19429	Pump Discharge Tube	
‡P-19430	Pump Discharge Tube Holder	
P-21618	Pump Piston Spring	
P-21619	Pump Piston Spring Washer	
*P-21620	Throttle Valve	(VAR)
P-21624	Main Body Gasket	
P-21625	Throttle Lever and Stem	
P-21630	Pump Rod	
P-21642	By Pass Jet Assy	
P-21927-T	Air Horn	
†P-21928	Air Horn Assy (Complete)	
†P 21929	Choke Lever Lock Plunger	
†P 21930	Choke Lever Lock Plunger Spring	
P-22094	Throttle Valve Body with Choke Lever & Link	(VAR)
‡P-19817	Bushing	
‡P-21926	Choke Lever and Link	
P-22706	Pump Piston and Link	
†P 22709	Pump Piston Assy (Complete)	

J-4790-G EE-⅞ Complete Gasket Set

*NOTE On parts marked (VAR) size must be specified when ordering

STANDARD SPECIFICATIONS

FORD 1936—TAXICABS (SE-67-9510)
1937 SMALL V-8, MODEL 54
2.6" x 3 2"—8 Cylinder Engine
A-17690 EE-⅞ Carburetor

P-21612	Main Body with 13/16' Venturi, No 65 H S Bleeder, and No 38 Idle Air Bleeder
P-19440	No 36 Main Discharge Jet
P-19442	035" Metering Jet
P-21642	By Pass Jet 1 No 71 Hole
P-22094	Throttle Body with No 56—60 Idle Holes
P-19424	Idle Tube with No 70 Feed Hole
P-21620	Throttle Valve 5°

STANDARD SETTINGS FOR "EE-⅞" CARBURETOR

Throttle Valve Location Upper lip of throttle valve to be 030" plus or minus 004" below lower edge of upper idle hole

Economizer Setting Pump piston to rest on seat of by-pass jet (less over travel) with throttle valve cracked open with a 9/32" drill plus or minus 1/64'

Fuel Level 15/32" below top face of float chamber at 3 lbs pressure

Pump Capacity 9 to 13 CC Slow, 5 to 9 CC Fast with maximum adjustment, 5 to 9 CC slow and fast with minimum adjustment

Slow Idle Screw 1¾ turns from closed throttle position

SPECIFICATIONS OF STANDARD EQUIPPED PASSENGER CARS
PARTS AND SETTING EXCEPTIONS MODEL "EE-⅞" CARBURETOR

FORD 1937 (52-9510-B)
A-17800 EE-⅞ Carburetor
Specifications same as A-17690

FORD 1937 MODEL "52" (52-9510)
2 6' x 3 2"—8 Cylinder Engine
A-17750 EE-⅞ Carburetor

Std. Part No.	Special Parts Used on Above Model Car	
P-19442	P-19442	037" Metering Jet
P-21612	P-22834	Main Body ⅞" Venturi, No 65 H S Bleeder No 40 Idle Air Bleeder
P-21642	P-21018	By Pass Jet with 1 No 68 Hole

STANDARD SPECIFICATIONS

PACKARD 1935 MODEL "120" (302647)
3¼"x3⅜"—8 Cylinder
A-17701 EE-14 Carburetor (Code No 10-4F)

P-19442	048 (A) Main Metering Jet
P-20419	Idle Tube, No 55 Feed Hole No 70 Idle Air Bleed
P-20853	No 32-36 Main Discharge Jet (B)
P-20874	5° Throttle Valve (B)
P-20911	By-Pass Jet (1 No 62 Hole)
P-20989	Throttle Valve Body with No 54-60 (B) Idle Holes and No 50 Idle Air Bleed
P-21609	Main Body, 1$\frac{1}{32}$" Venturi No 65 (D) H S Bleeder, No 65 Pump Disch Noz

STANDARD SETTINGS FOR EE-14 CARBURETOR

Throttle Valve Location Upper lip of throttle valve to be 030 plus or minus 006 below lower edge of upper idle holes

Pump Capacity 11-15 CC per 10 strokes (Fast) 17-21 per 10 strokes (Slow)

Economizer Setting Pump piston to rest on seat of by-pass jet (less over travel) with throttle valve cracked open with 21/64 drill plus or minus 1/64

Fuel Level 15/32 below top face of float chamber at 3 lb pressure

Thermostat Unhook thermostat and at 70° F (See Note) hook on bracket to be in contact with hook on thermostat (Stamped 0 in line with pointer)

Thermostat Setting Turn pointer 10 notches in rich direction and lock (Prick punch position)

NOTE In determining 70° F Thermostat Setting (0 ' Stamping) if temperature in room is below 70° F turn pointer in rich direction 1 notch for each 5° and if above 70° F turn pointer in lean direction 1 notch for each 5° (Allow thermostat to cool or warm so as to be of same temperature of room)

SPECIFICATIONS OF STANDARD EQUIPPED PASSENGER CARS PARTS AND SETTINGS EXCEPTIONS MODEL EE-14 STANDARD CARBURETOR

GRAHAM 1935 MODEL "72"
3⅛"x4"—8 Cylinder Engine
A-17751 EE-14 Carburetor (Code No 9-4A)

Std Part No.	Special Part No	Used on Above Model Car
P-20756	P-20938	Air Horn (Complete)
P-20763	P-20955	Choke Stem with Bearing
P-20853	P-20940	No 32 Main Discharge Jet
P-20827	P-20935	Thermostat Assembly
P-20874	P-20720	Throttle Valve 5°
P-20875	P-20929	Vacuum Piston
P-20879	P-20441	Pump Piston and Link
P-20911	P-19523	By-Pass Jet (1 No 64 Hole)
P-20985	P-20991	Air Horn Casting with Vent
P-20989	P-20988	Throttle Valve Body No 54-60 Idle Holes No 54 Idle Air Bleed No 58 Vac Spark Hole 040" above Throttle Valve
P-21185	P-20936	Choke Rod
P-21357	P-20942	Thermostat Cover and Bushing
P-21600	P-20946	Choke Lever with Ball Joint
P-21602	P-20939	Throttle Stem and Lever
P-21609	P-20836	Main Body 1$\frac{1}{32}$ Venturi No 70 H S Bleeder No 65 Pump Disch Nozzle
None Shown	P-19587	Choke Rod Nut
None Shown	P-20951	Air Horn Baffle Plate

When specified on order, will furnish P-20935 Thermostats Assembly, P-20936 Choke Rod P-19587 Hex Nuts

NOTE Thermostat Setting 12 notches rich

PACKARD MOTOR 1936 MODEL "120-B" (304531)
3¼"x4¼"—8 Cylinder
A-18051 EE-14 Carburetor

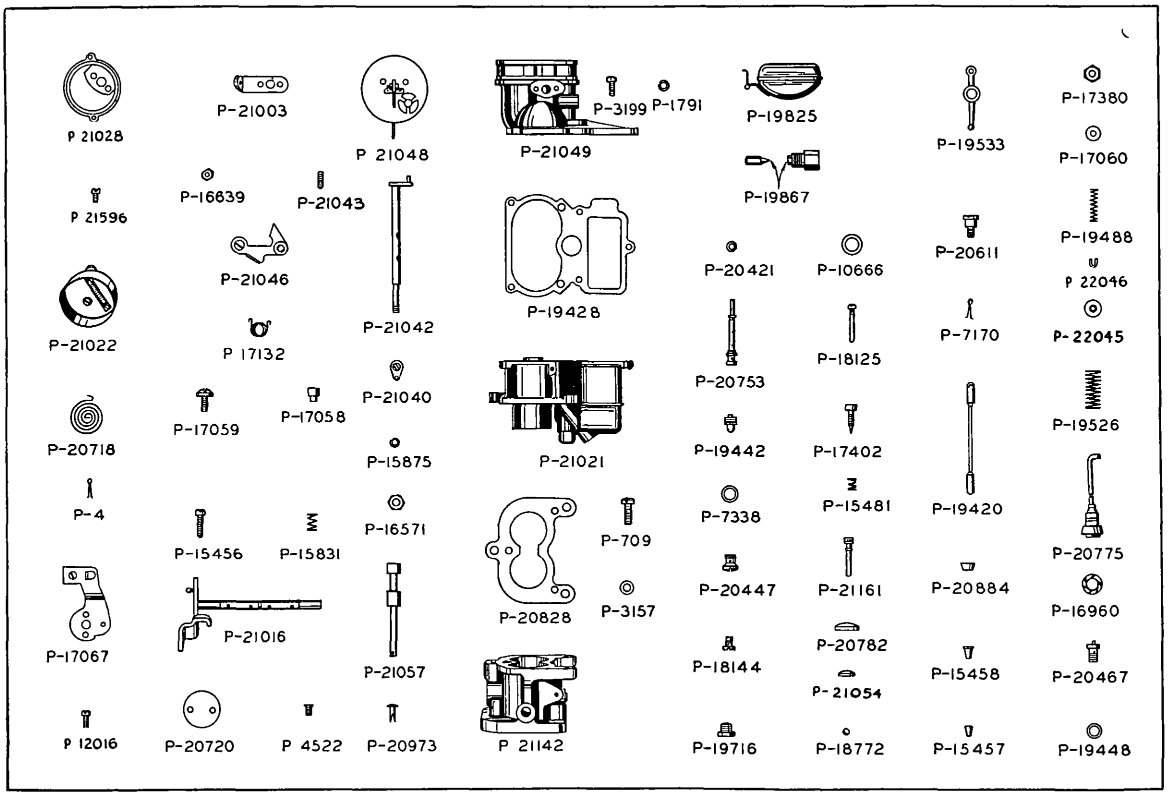
Std Part No	Special Parts	Used on Above Model Car
P-19867	P-22089	Float Needle Valve and Seat
P-20419	P-21794	Idle Tube, No 55 Feed Hole and No 65 Idle Air Bleeder Hole
P-20911	P-20752	By-Pass Jet (1 No 60)
P-20989	P-22047	Throttle Valve Body with No 54-58 Idle Holes and No 56 Idle Air Bleeder

NOTE Throttle Valve Location 020 plus or minus 004

PACKARD 1937 Model 120-C (316189)
3¼"x4¼"—8 Cyl Engine
A-18091 EE-14 Carburetor (Code No 10-29-A)

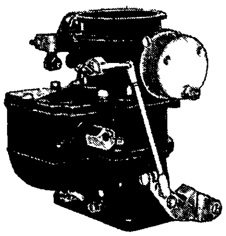
Std Part No	Special Parts	Used on Above Model Car
P-19442	P-19442	047 Metering Jet
P-20419	P-21794	Idle Tube and Holder No 55 Lower Hole No 65 Top Hole
P 20756	P-22597	Air Horn and Valve Assy
P-20757-T	P-22571	Air Horn
P-20759	P-22585	Choke Valve Assy
P-20763	P-22588	Choke Stem Assy
P-20827	P-22564	Thermostat Assy
P-20831	P-22583	Throttle Lever and Stem
P-20874	P-20874 P-22735	Throttle Valve 5° (Right) Throttle Valve 5° (Left)
P-20875	P-22586	Vacuum Piston
P-20911	P-19447	By Pass Jet Assy 1 No 63 Hole
P 20989	P-22800	Throttle Body Assy No 54-58 Idle Holes No 56 I A Bleed No 50 Spark Hole to come flush plus or minus 004 with upper edge of closed throttle valve
P-21357	P-22580	Thermostat Cover and Bushing Assy
P-21600	P-22598	Choke Lever Assy
P-22061	P-22582	Thermostat
P-22090	P-22089	Float Needle Valve and Seat

NOTE Throttle Valve Location Upper lip of Throttle Valve to be 020 plus or minus 004 below lower edge of upper idle hole



EE-15 N . A-17771

1" DUAL CARB.



Notes and References:

Car models having this carburetor with parts exceptions therefor are shown on back of this page

†These parts not illustrated

‡Indicates Sub-assembly part

PARTS LIST STROMBERG MODEL EE-15 CARBURETOR (As used on "350 and 35-50" 1935 La Salle)

Part No.	Name	
P-4	Thermostat Spring Cotter Pin	
P-709	Main Body Attaching Screw	
P-1791	Air Horn Attaching Screw Lockwasher	
P-3157	Main Body Attaching Screw Lockwasher	
P-3199	Air Horn Attaching Screw	
P-4522	Choke Valve Screw	
P-4522	Throttle Valve Screw	
P-7170	Pump Link Cotter Pin	
P-7338	Main Body Plug Gasket	
P-7338	Main Discharge Jet Plug—Pump Check Valve Body Gasket	
P-10666	Float Needle Valve and Seat Gasket	
P-12016	Thermostat Housing Attaching Screw Choke Tube Holder Attaching Screw	
†P-15346	Thermo and Tube Holder Attach Screw Lockwasher	
P-15456	Throttle Stop Screw	
P-15457	Throttle Valve Body Drive Plug	
P-15458	Idle Discharge Channel Plug	
P-15481	Idle Needle Valve Spring	
P-15831	Throttle Stop Screw Spring	
P-15875	Thermostat Lever Lockwasher	
P-16571	Thermostat Lever Nut	
P-16639	Air Horn Lever Adj Screw Lock Nut	
P-17058	Choke Lever Bushing	
P-17059	Choke Lever Attaching Screw	
P-17060	Pump Link Splash Washer	
P-17067	Choke Tube Holder (Complete)	
‡P-12868	Choke Tube Holder Clamp Screw	
‡P-8806	Choke Tube Holder Clamp Screw Nut	
‡P-11561	Choke Tube Holder Clamp	
P-17132	Choke Lever Return Spring	
P-17380	Pump Link Felt Washer	
P-17402	Idle Needle Valve	
P-18125	Float Lever Fulcrum Screw	
P-18144	Pump Check Valve	
P-18772	Idle Air Bleed and Pump Discharge Channel Lead Ball	
P-19420	Pump Rod	
P-19428	Air Horn Gasket	
*P-19442	Main Metering Jet	(VAR)
P-19448	By-Pass Jet Gasket	
P-19488	Pump Link Spring	
P-19526	Pump Piston Return Spring	
P-19533	Pump Lever	
P-19716	Pump Check Valve Channel Plug	
P-19825	Float	
P-19867	Float Needle Valve and Seat (Assembly)	
P-20421	Main Discharge Jet Lead Gasket	
P-20447	Main Discharge Jet Channel Plug	
†P-20454	Throttle Valve Body Drive Plug	
P-20467	By-Pass Jet	
P-20611	Pump Lever Fulcrum Screw	
P-20718	Thermostat Unit Spring	
*P-20720	Throttle Valve	(VAR)
P-20753	Main Discharge Jet	
†P-20754	Pump Piston and Link (Complete)	
P-20775	Pump Piston and Link	
‡P-16960	Pump Piston Leather Expansion Spring	
P-20782	Throttle Valve Body Expansion Plug	
P-20828	Main Body Gasket	
P-20884	Throttle Valve Body ¼' Drive Plug	
P-20973	Choke Valve Piston Lever Split Rivet	
P-21003	Choke Lever Stop Bracket	
†P-21015	Air Horn (Complete)	
P-21016	Throttle Lever and Stem	
‡P-19509	Throttle Lever Ball Joint	
P-21028	Thermostat Housing	
P-21022	Thermostat Assembly	
‡P-9284	Thermostat Terminal Hex Nut	
‡76-S-42	Thermostat Terminal Hex Nut Lockwasher	
‡P-21030	Thermostat Terminal Knurled Nut	
‡P-21031	Heating Coil Washer	
‡P-21032	Thermostat Terminal Washer	
‡P-21033	Thermostat Terminal Insulator Washer (Large)	
‡P-21034	Thermostat Heating Coil	
‡P-21037	Thermostat Terminal Insulator Washer (Small)	
‡P-21055	Thermostat Heating Coil Clamp Screw	
*P-21021	Main Body Complete	(VAR)
‡P-20435	Pump Discharge Tube (Right)	
‡P 20436	Pump Discharge Tube (Left)	
‡P-19430	Pump Discharge Tube Wedge	
‡P-18772	Main Body Lead Balls	
†P-21036	Thermostat Unit (Complete)	
P-22852	Thermostat Lever and Pin	
P-21042	Choke Lever Stem and Pin	
P-21043	Choke Lever Adj Screw	
P-21046	Choke Lever	
P-21048	Choke Valve (Complete)	
‡P 21190	Choke Valve and Bracket	
‡P-20760	Choke Piston Valve Lever	
‡P-20882	Choke Piston Valve Screw	
‡P-20883	Choke Piston Valve Lockwasher	
‡P-9283	Choke Piston Valve Screw Nut	
P-21049	Air Horn Casting with Vent and Bushing	
‡P-20608	Air Horn Vent	
‡P-21044	Air Horn Bushing (Short)	
‡P-21045	Air Horn Bushing (Long)	
P-21054	Throttle Valve Body Expansion Plug	
P-21057	Vacuum Piston	
*P-21142	Throttle Valve Body with Idle Air Bleed	(VAR)
P-21161	Idle Tube	
P-21596	Thermostat Cover Clamp Screws	
P-22045	Pump Piston Return Spring Cupped Washer	
P 22046	Pump Piston Link Horse Shoe Washer	

J-4540-G EE-15 Complete Gasket Set

*NOTE On parts marked (VAR) size must be specified when ordering

STANDARD SPECIFICATIONS

LA SALLE
MODELS "350" AND "35-50" 1935 (1412502)
3"x4¼"—8 Cylinder
No A-17771 EE-15 Carburetor

P-19442	Main Metering Pet No 050
P-20467	By-Pass Jet (1-No 65)
P-20720	(5°) Throttle Valve with No 53 Hole
P-20753	Main Discharge Jet No 32-36
P 21021	Main Body 11/32" Venturi No 67 H S Bleeder No 65 Pump Discharge Nozzle
P-21142	Throttle Valve Body No 54-60 Idle Holes No 50 Idle Air Bleed
P-21161	Idle Tube, No 63 Feed Hole, No 55 Idle Air Bleed

STANDARD SETTINGS FOR EE-15 CARBURETOR

Throttle Valve Location Upper lip of throttle valve to be 010 plus or minus 004 below lower edge of upper idle hole

Pump Capacity 9 to 13 CC per 10 strokes (Fast) 15 to 19 CC per 10 strokes (Slow)

Economizer Setting Pump Piston to rest on seat of by-pass jet (less over travel) with throttle valve cracked open with 9/32" drill plus or minus 1/64"

Slow Idle Set Screw 2 turns from closed throttle position

Fuel Level 15/32" below top face of float chamber at 3 lb pressure

Thermostat At 70° F (See Note) Stamp "0" on housing in line with center line of thermostat hook, (using 3/32" drill as pin gauge)

Thermostat Setting Turn thermostat housing 17 notches rich from pointer on air horn (Prick punch position)

NOTE In determining 70° F thermostat setting ("0" Stamping) if temperature in room is below 70° F, turn housing in rich direction 1 notch for each 5° and if above 70° F, turn housing in lean direction 1 notch for each 5° (Allow thermostat to cool or warm so as to be of same temperature of room)

SPECIFICATIONS OF STANDARD EQUIPPED PASSENGER CARS PARTS AND SETTINGS EXCEPTIONS MODEL EE-15 STANDARD CARBURETOR

CORD 1936-37 MODEL "810" (J-10502)
3½"x3¾"—8 Cylinder Lyc'g "FB" Engine
A-18101 EE-15 Carburetor (Code No 102-2A)

Std Part No.	Special Parts Used on Above Model Car	
P-15456	P-19103	Idle Adjustment Screw
P-19442	P-19442	050 Metering Jet
P-20447	P-19441	Main Discharge Jet Plug
P-20467	P-20854	By-Pass Jet (1 No 57) (A)
P-20718	P-22063	Thermostat
P-20720	P-19435	5° Throttle Valve
P-20753	P-20853	No 32-36 Main Discharge Jet
P-20754	P-19525	Pump Piston Spring and Link Assem
P-20755	P-19486	Pump Piston and Link
P-21009-A	P-21009-T	Thermostat Housing
P-21015	P-21975	Air Horn with Valve Complete)
P-21016	P-20462	Throttle Lever and Stem
P-21021	P-22067	Main Body with 1 1/32" Venturi No 65 H S Bleeder No 42 Idle Air Bleeder
P-21022	P-22096	Thermostat Unit
P-21036	P-22095	Thermostat Unit Complete
P-21042	P-21976	Choke Stem
P-21048	P-20759	Choke Valve
P-21142	P-21974	Throttle Valve Body with No 56-60 Idle Holes
P-21161	P-19424	Idle Tube with No 70 Feed Hole
None Shown	P-20951	Air Horn Baffle Plate

NOTE No Choke Lever and Tube Holder on this Carburetor

NOTE Throttle Valve Location Upper Lip of Throttle Valve to be 030" Plus or Minus 006 below Lower Edge of Upper Idle Holes

NOTE Economizer Setting 21/64" Plus or Minus 1/64"

NOTE Pump Capacity 11 to 15 CC (Fast) 17 to 21 CC (Slow) per 10 Strokes

NOTE *Slow Idle Set Screw 1¾ Turns from Closed Throttle*

NOTE Thermostat Setting 17 Notches Rich

LA SALLE 1936 MODEL "36-50" (1416709)
3x4¼"—8 Cylinder
A-17801 EE-15 Carburetor

Std Part No	Special Parts Used on Above Model Car	
P-17402	P-15478	Idle Needle Valve
P-19442	P-19442	046" Metering Jet
P-19867	P-22487	Float Needle and Seat
P-20611	P-19433	Pump Lever Fulcrum Screw
P-21015	P-21686	Air Horn with Valve (Complete)
P-21016	P-20719	Throttle Lever and Stem
P-21021	P-21021	Main Body 1 1/32" Venturi, No 67 H S Bleeder and No 65 Pump Disch Noz
P-21049	P-21685	Air Horn with Vent
P-21142	P-21732	Throttle Valve Body with No 54-50 Idle Holes No 50 Idle Air Bleeder, No 58 Vac Spark Hole to be 041" Plus or Minus 004

NOTE Economizer Setting, 21/64" Drill

REPLACEMENT EQUIPMENT PARTS AND SETTINGS EXCEPTIONS MODEL EE-15 STANDARD CARBURETOR

(Passenger Cars)

OLDSMOBILE 1936 MODEL "L-36" (PACKAGE EQUIPMENT)
3"x4¼"—8 Cylinder
A-18121 EE-15 Carburetor (Code No 5-26)

Std Part No.	Special Parts Used on Above Model Car	
P-15456	P-21715	Idle Adj Screw
P-19442	P-19442	048 Metering Jet
P-19533	P-19427	Pump Lever
P-20467	P-19447	By-Pass Jet (1 No 63)
P-21015	P-22049	Air Horn with Valve Complete
P-21016	P-21984	Throttle Lever and Stem
P-21042	P-21982	Choke Stem
P-21048	P-20759	Choke Valve
P-21049	P-21685	Air Horn with Venturi
P-21142	P-21732	Throttle Valve Body with No 54-50 Idle Holes, No 50 Idle Air Bleeder and No 58 Vac Spark Hole Flush with Thro Valve
P-21161	P-20772	Idle Tube

Std Part No	Special Part No Used on Above Model Car	
None Shown	P-21986	Kick Lever
None Shown	P-16487	Kick Lever Stop
None Shown	P-21981	Choke Rod
None Shown	P-10495	Choke Rod Washer
None Shown	P-1523	Kick Lever Washer

NOTE No Choke Lever and Tube Holder on this Carburetor

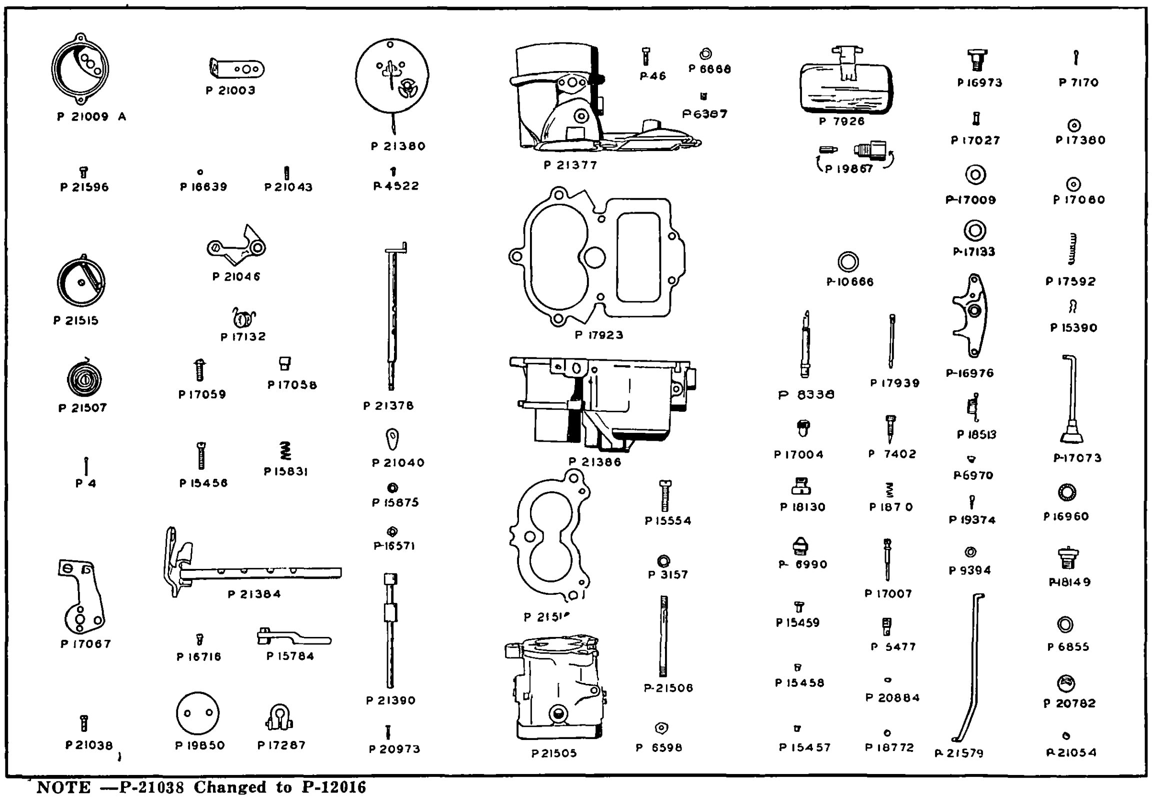
NOTE Economizer Setting 21/64"

NOTE Pump Capacity 12 to 14 CC (Fast) 17 to 19 CC (Slow) per 10 Strokes

NOTE Adjust Choke Kick Lever for a Choke Valve Opening of 204" (No 6 Drill) with Throttle Valve Wide Open

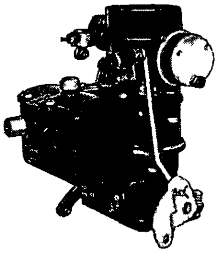
EQUIPMENT

P-21991 Manifold Fitting—P-21987 Wire—P-21983 Stud—P-14104 Cap Screws—P-21990 Flange Gasket—P-16120 Nut—P-22066 Gas Line—P-9755 Washer



EE- 25
N . A-18202

1¼' DUAL CARB



Notes and References:

Car models having this carburetor with parts exceptions therefore are shown on back of this page

†These parts not illustrated

‡Indicates Sub-assembly part

NOTE —P-21038 Changed to P-12016

PARTS LIST STROMBERG MODEL EE-25 CARBURETOR (as used on "36-60" and "36-75" 1936 Cadillac)

Part No	Name	
P-4	Thermostat Cotter Pin	
P-46	Air Horn Attach Screw	
P-3157	Main Body Attach, Lock Washer	
P-4522	Choke Valve Screw	
P-6387	Air Horn Plug	
P-6668	Air Horn Attach Lock Washer	
P-6855	By-Pass Jet Gasket	
P-6970	Pump Lever Stop Screw	
P-7170	Pump Link Cotter Pin	
P-9394	Pump Link Washer	
P-10666	Fl Needle Valve Seat Gasket	
P-10666	Main Disch Jet Plug Gasket	
P-12016	Channel Tube Holder Attach Screw	
P-12016	Thermostat Housing Attach Screw	
†P-15346	T Holder and Thermo Screw Lock Washer	
P-15456	Idle Adjustment Screw	
P-15457	Vac Piston Channel Plug (No 6)	
P-15458	Idle Channel Plug (No 10)	
P-15459	Idle Disch Hole Plug (¼')	
*P-15477	Idle Air Bleed	(VAR)
P-15554	Main Body Attach Screw	
P-15784	Loose Lever with Wire Conn	
‡P-9270	Wire Clamp Screw	
P-15831	Idle Adj Screw Spring	
P-15875	Thro Lever Attach Lock Washer	
P-16571	Thro Lever Attach Nut	
P-16598	Air Horn Attach Stud Nut	
P-16639	Choke Lever Stop Set Screw Nut	
P-16716	Throttle Valve Screw	
P-16973	Pump Lever Fulcrum Screw	
P-16976	Pump Lever	
P-16990	Check Valve	
*P-17004	Main Metering Jet	(VAR)
P-17007	Idle Tube	
P-17009	Pump Lever Fulcrum Screw Washer	
P-17027	Pump Lever Fulcrum Screw Lock Washer	
P-17058	Choke Lever Fulcrum Screw Bushing	
P-17059	Choke Lever Fulcrum Screw	
P-17060	Pump Link Splash Washer	
P-17067	Choke Tube Holder	
‡P-11561	Choke Tube Holder Clamp	
‡P-12868	Choke Tube Holder Clamp Screw	
‡P-8806	Choke Tube Holder Clamp Nut	
P-17073	Pump Piston and Link	
‡P-16960	Pump Piston Expansion Spring	
P-17132	Choke Lever Return Spring	
P-17133	Pump Lever Fulcrum Screw Spring Washer	
P-17287	Loose Lever Stop	
‡P-9025	Loose Lever Stop Clamp Screw	
‡P-4517	Loose Lever Stop Clamp Nut	
P-17380	Pump Link Felt Washer	
P-17402	Idle Needle Valve	
P-17592	Packing Retainer Ring	
P-17923	Air Horn Gasket	
P-17926	Float with Lever	
P-17939	Float Lever Fulcrum Screw	

Part No	Name	
P-18130	Main Disch Jet Plug	
P-18149	By-Pass Jet	
P-18338	Main Discharge Jet	
P-18513	Pump Lever Spring	
P-18710	Idle Needle Valve Spring	
P-18772	Lead Ball (Main and T V Body)	
P-19374	Pump Rod and Pump Link Cotter Pin	
*P-19850	Throttle Valve	(VAR.)
P-20782	Vacuum Piston Channel Plug ($\frac{17}{32}$)	
P-20884	Vacuum Piston Channel Plug (¼)	
P-20973	Vacuum Piston Rivet	
P-21003	Choke Lever Stop Bracket	
P-21009A	Thermostat Unit Housing	
P-21043	Choke Lever Stop Set Screw	
P 21046	Choke Lever and Wire Conn	
‡P-12867	Choke Wire Clamp Screw	
P-31054	Vacuum Piston Channel Plug	
†P-21376	Air Horn and Valve (Complete)	
P-21377	Air Horn	
P-21378	Choke Stem and Stop	
P-21380	Choke Valve (Complete)	
‡P-21383	Vacuum Piston Lever	
‡P-20882	Vacuum Piston Lever Fulcrum Screw	
‡P-20883	Vacuum Piston Lever Fulcrum Screw Lock Washer	
‡P-9283	Vacuum Piston Lever Fulcrum Screw Nut	
P-21384	Throttle Lever and Stem	
*P-21386	Main Body	(VAR)
‡P 21388	Pump Discharge Tube (Right	
‡P-21389	Pump Discharge Tube (Left)	
P-21390	Vacuum Piston	
‡P-18716	Float Chamber Vent Cap	
‡P-18715	Float Chamber Vent Screw	
‡P-18174	Float Chamber Cover Plate	
‡P-9802	Float Chamber Cover Plate Rivet	
‡P-2369	Float Chamber Vent Cap Screw	
‡P-12167	Float Chamber Vent Cap Screw Lock Washer	
*P-21505	Throttle Valve Body	(VAR)
P-21506	Air Horn Attach Stud	
P-21507	Thermostat	
†P-21508	Thermostat Unit (Complete)	
P 21515	Thermostat Assembly	
‡P-21034	Heating Coil	
‡P-21055	Heating Coil Attach Screw	
‡P-21031	Heating Coil Washer	
‡P-21032	Binding Post Washer	
‡P-21033	Insulation Washer (Bakelite)	
‡P-21037	Binding Post Washer (Bakelite)	
‡P-76-S 42	Binding Post Lock Washer	
‡P-9284	Binding Post Lock Nut	
‡P-21514	Heating Element Insulator Assembly	
P-21516	Main Body Gasket	
P-21579	Pump Rod	
P-21596	Thermostat Unit Attach Screw	
P 22487	Float Needle Valve and Seat	
P-22852	Thermostat Lever and Pin	

*NOTE On parts marked **(VAR)** size must be specified when ordering

J 4609 G EE 25 Complete Gasket Set

STANDARD SPECIFICATIONS

CADILLAC MODELS "36-60" & "36-75" 1936 (1411726)
3⅜—3½x4½"—8 Cylinder

No A-18202 EE-25 Carburetor

P-15477	No 42 Idle Air Bleed
P-17004	058' Main Metering Jet
P-17007	Idle Tube No 70 Feed Hole
P-18149	By-Pass Jet (4-No 56)
P-18338	No 36 Main Discharge Jet
P-19850	5° Throttle Valve
P-21386	Main Body, 1$\frac{3}{16}$" Venturi No 67 H S Bleeder, No 56 Pump Disch Nozzle
P-21505	Throttle Valve Body with No 56-60 Idle Holes, No 56 Vac Spark Hole 031 plus or minus 006 above Thro Valve

STANDARD SETTINGS FOR EE-25 CARBURETORS

Throttle Valve Location Upper lip of throttle valve to be 030 plus or minus 004 below lower edge of upper idle hole

Economizer Setting Pump piston to rest on seat of by pass jet (less over travel), with throttle valve cracked open with 21/64' drill plus or minus 1/64" (Maximum pump travel—end hole in pump lever)

Pump Capacity 11 to 15 c c per 10 strokes (Fast) and 18 to 22 c c per 10 strokes (Slow)

Pump Travel Setting Minimum

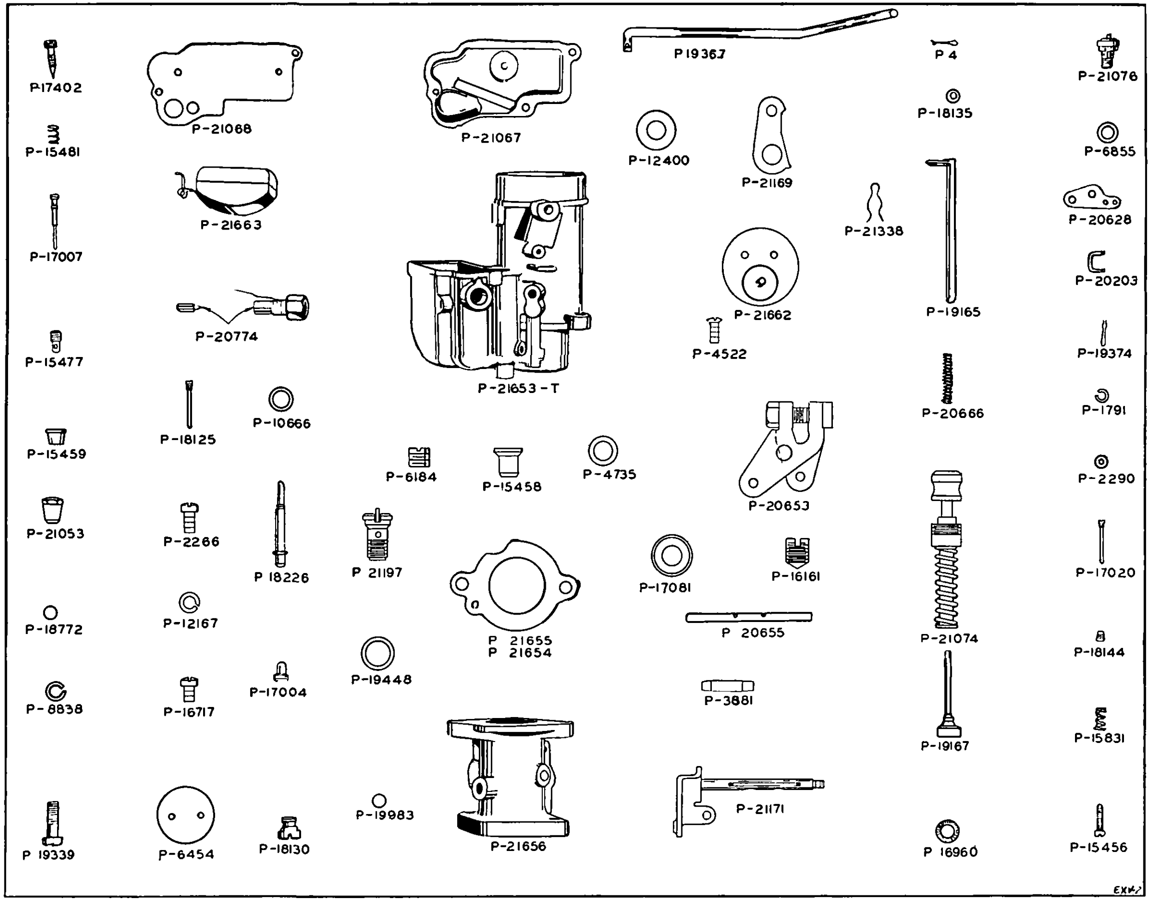
Fuel Level ⅝" below top face of float chamber at 5 lbs pressure

Slow Idle Set Screw 2 turns from closed throttle position

Thermostat At 70° F (See Note) Stamp '0" on housing in line with center line of thermostat hook, (using 3/32" drill as pin gauge)

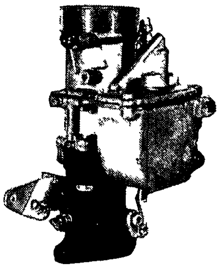
Thermostat Setting Turn thermostat housing 16 notches rich from pointer on air horn (Prick punch position)

NOTE In determining 70° F thermostat setting ('0" Stamping) if temperature in room is below 70° F, turn housing in rich direction 1 notch for each 5° and if above 70° F, turn housing in lean direction 1 notch for each 5° (Allow thermostat to cool or warm so as to be of same temperature of room)



EXV-2
N . A-18212
1¼" CARB. SAE

EXV-3
N . A-18263
1½" CARB SAE



Notes and References:

Car models having this carburetor with parts exceptions therefor are shown on back of this page

‡Indicates Sub-assembly part

PARTS LISTS STROMBERG MODEL "EXV-2" AND "EXV-3" CARBURETORS
(EXV-2 Carburetor as used on Dodge 1936 Model "D-2")
(EXV-3 Carburetor as used on Chrysler 1936 Model "C-9")

EXV-2 Part No	EXV-3 Part No.	Name of Parts	
P-4	P-4	Pump Rod Cotter Pin	
P-4	P-7170	Fast Idle Rod Cotter Pin	
P-1791	P-1791	Pump Lever Nut Lockwasher	
P-2266	P-47	Float Chamber Cover Attach Screw	
P-2290	P-2290	Pump Lever Nut	
P-3881	P-3881	Choke Stem Pin	
P-4522	P-4522	Choke Valve Attach Screw	
P-4735	P-4735	Choke Stem Washer	
P-6184	P-6184	Check Valve Channel Plug	
*P-6454	P-5436	Throttle Valve	(VAR)
P-6855	P-6855	Pump By-Pass Jet Gasket	
P-8838	P-8838	Main Body Attach Screw Lockwasher	
P-10666	P-10666	Fl Needle Valve Seat Gasket	
P-10666	P-10666	Main Discharge Jet Plug Gasket	
P-12167	P-12167	Fl Ch Cover Attach Screw Lockwasher	
P-12400	P-12400	Fast Idle Lever Washer	
P-15456	P-15456	Idle Adjusting Screw	
P-15458	P-6387	Idle Channel Drive Plug (No 10)	
P-15459	P-15459	Idle Channel Drive Plug (¼")	
*P-15477	P-15477	Idle Air Bleeder	(VAR)
P-15481	P-15481	Idle Needle Valve Spring	
P-15831	P-15831	Idle Adjusting Screw Spring	
P-16161	P-16161	Choke Stem Collar Set Screw	
P-16717	P-16716	Throttle Valve Screw ...	
*P-17004	P-17004	Main Metering Jet	(VAR)
P-17007	P-19424	Idle Tube	
*P-17020	P-17020	Pump Discharge Nozzle	(VAR)
P-17081	P-17081	Choke Stem Collar	
P-17402	P-17402	Idle Needle Valve	
P-18125	P-18125	Float Fulcrum Screw	
P-18130	P-18130	Main Discharge Jet Plug	
P-18135	P-18135	Pump Rod Nut	
P-18144	P-18144	Pump Check Valve	
P-18226	P-20877	Main Discharge Jet	

EXV 2 Part No	EXV-3 Part No.	Name of Parts	
P-18772	P-18772	Lead Ball (⅛")	
P-19165	P-19165	Pump Rod	
P-19167	P-19167	Pump Piston and Stem Assembly	
‡P-16960	‡P-16960	Piston Expansion Spring	
P-19339	P-19339	Main Body Attach Screw	
P-19367	P-19367	Fast Idle Rod	
P-19374	P-19374	Pump Link Cotter Pin	
P-19448	P-19448	Vac Econ By-Pass Jet Gasket	
P-19983	P-19983	Lead Ball (3/16")	
P-20203	P-20203	Pump Link	
P-20628	P-20628	Pump Lever	
P-20653	P-20657	Choke Lever	
‡P-18300	‡P-18300	Choke Lever Camp Screw	
‡P-18299	‡P-18299	Choke Lever Camp Screw Nut	
P-20655	P-20655	Choke Stem	
P-20666	P-18215	Pump Stem Spring	
P-20774	P-20887	Float Needle Valve and Seat	
P-21053	P-21053	Pump Discharge Channel Plug	
P-21067	P-21067	Float Chamber Cover	
‡P-17828	‡P-17828	Float Chamber Cover Vent Cap	
‡P-9802-F	‡P-9802-F	Float Chamber Vent Cap Attach Screw	
P-21068	P-21068	Float Chamber Cover Gasket	
P-21074	P-21074	Vacuum Economizer Assembly	
P-21076	P-21076	Pump By-Pass Jet	
P-21171	P-21168	Throttle Lever and Stem	
P-21169	P-21169	Fast Idle Lever	
P-21197	P-21197	Vacuum Economizer By-Pass Jet	
P-21338	P-21338	Fast Idle Lever Cotter Pin	
*P-21653	P-21073	Main Body	
P-21654	P-21064	Main Body Gasket	(VAR)
P-21655	P-21065	Main Body Gasket (Insulator)	
*P-21656	P-21062	Throttle Valve Body	(VAR)
P-21662	P-20664	Choke Valve Compete	
P-21663	P-21663	Float	

The Amplex Division of Chryslers Motors are using a Dodge Motor on Industrial Equipment having a gravity feed This Carburetor has a special float, needle and seat assembly P-21994 Chrysler No 662756 (The Needle Valve is clipped to float hanger)

J-4608-G EXV-2 Complete Gasket Set
J-4544-G EXV 3 Complete Gasket Set

*NOTE On parts marked (VAR) size must be specified when ordering

STANDARD SPECIFICATIONS

DODGE 1936 MODEL "D-2")654757)

3¼"x4⅜"—6 Cylinders

A-18212 EXV-2 Carburetor (Code No 3-26C)

Part No.	Part Name	
P-6454	20° Throttle Valve	
P-15477	No 53 Idle Air Bleeder	(A) (C)
P-17004	058" Main Metering Jet	(C)
P-17007	Idle Tube with No 70 Feed Hole	
P-17020	No 70 Pump Discharge Nozzle	
P-18226	No 28 Main Discharge Jet	(C)
P-21076	Pump By-Pass Jet (4 No 56)	(A) (B)
P-21197	Vac Econ By-Pass Jet (1 No 54)	(C)
P-21653-T	Main Body with 1$\frac{5}{32}$" Venturi and No 70 H S Bleeder	
P-21656	Throttle Valve Body with No 56-58 Idle Holes, No 50 Vac Spark Hole	

CHRYSLER 1936 MODEL "C-9" (655465)

3¼"x4⅞"—8 Cylinder

A-18263 EXV-3 Carburetor (Code No 4-53)

Part No.	Part Name
P-5436	20° Throttle Valve
P-15477	No 56 Idle Air Bleeder
P-17004	065" Main Metering Jet
P-17020	No 64 Pump Discharge Nozzle
P-19424	Idle Tube with No 70 Feed Hole . .
P-20877	No 28 Main Discharge Jet
P-21062	Throttle Valve Body with No 56-58 Idle Holes, No 50 Vac Spark Hole(Flush)
P-21073	Main Body with 1$\frac{5}{16}$" Venturi and No. 70 High Speed Bleeder
P-21076	Pump By-Pass Jet (4 No 56)
P-21197	Vac Econ By-Pass Jet (1 No 54) .

STANDARD SETTINGS FOR EXV-2-3 CARBURETORS

Throttle Valve Location Upper lip of Throttle Valve to be (018-EXV-2) and (012-EXV-3) Plus or Minus 004' below lower edge of upper Idle Hole

Pump Capacity EXV-2 11 to 15 CC (Fast) and 15-19 CC (Slow) per 10 Strokes (Middle Setting)

EXV-3 11 to 15 CC (Fast) and 15 to 19 CC (Slow) per 10 Strokes (Middle Setting)

Pump Travel Setting Middle Holes on Pump Lever

Fuel Level ⅝" below top face of Float Chamber at 3 lbs Pressure

Slow Idle Set Screw (EXV-2 ¾ turn) (EXV-3 1 turn) Open

SPECIFICATIONS OF STANDARD EQUIPPED PASSENGER CARS

PARTS AND SETTINGS EXCEPTIONS MODELS EXV-2 AND EXV-3 STANDARD CARBURETORS

A-18342 EXV-2 STANDARD CARBURETOR

Std Part No	Special Part No	Used on Above Model
P-4735	P-17449	Choke Stem Washer
P-17004 P-18130	P-18931	Adj Metering Jet
P-20653	P-17053	Choke Lever Assy
P-20655	P-18266	Choke Stem and Stop Assy
P-21171	P-5845	Throttle Lever Assy
	P-20217	Throttle Stem
P-21653-T	P-21718-T	Main Body 1$\frac{5}{32}$" Venturi No 70 H S Bleeder
P-21656	P-22379	Throttle Body No 56-58 Idle Holes No 50 Vac Spark Hole
None Shown	P-3292	Vac Spark Control and Governor Boss Pipe Plug ⅛'
None Shown	P-7098	Vac Suction Channel Plug
None Shown	P-13245	Throttle Stop Assy
None Shown	P-14084	Loose Lever Assy
None Shown	P-9270	Loose Lever Wire Clamp Screw
None Shown	P-16487	Loose Lever Stop Assy
None Shown	P-9025	Loose Lever Stop Clamp Screw
None Shown	P-4517	Loose Lever Stop Clamp Screw Nut
None Shown	P 22637	Choke Tube Holder Assy
None Shown	P-11561	Choke Tube Clamp
None Shown	P-12868	Choke Tube Clamp Screw
None Shown	P-19328	Choke Tube Wire Connector
None Shown	P-284	Choke Tube Wire Connector Screw
None Shown	P-17059	Choke Lever Fulcrum Screw
None Shown	P-17058	Choke Lever Fulcrum Screw Bushing
None Shown	P-17068	Choke Valve Return Spring
None Shown	P-17093	Choke Tube Holder Attach Screw
None Shown	P-17132	Choke Lever Return Spring
None Shown	P-11577	Choke Lever Wire Connector
None Shown	P-12867	Choke Lever Wire Connector Screw
None Shown	P-16318	Compression Union Assy
None Shown	P-22394	Copper Tubing

A-18343 EXV-3 STANDARD CARBURETOR

Std Part No	Special Parts	Used on Above Model
P-4735	P-17449	Choke Stem Washer
P-15456	P-2924	Idle Adjustment Screw
P-15831	P-15301	Idle Adjustment Screw Spring
P-17004	P-18931	Adjustable Metering Jet
P-18130		
P-20655	P-18266	Choke Stem and Stop
P-20657	P-17053	Choke Lever Assy
P-20877	P-21326	Main Discharge Jet
P-21062	P-22378	Throttle Body No 56-58 I H No 50 Vac Spark Hole Flush
P-21073	P-22397	Main Body 1$\frac{1}{16}$' Venturi No 65 H S Bleeder
P-21168	P-5856	Throttle Lever
	P-20442	Throttle Stem
None Shown	P-3292	Vac Spark Control and Governor Boss Plug
None Shown	P-7098	Vac Suction Channel Plug
None Shown	P-14481	Throttle Stop Assy
None Shown	P-14677	Loose Lever Assy
None Shown	P-9647	Loose Lever Wire Clamp Screw
None Shown	P-17287	Loose Lever Stop Assy
None Shown	P-9025	Loose Lever Stop Clamp Screw
None Shown	P-4517	Loose Lever Stop Clamp Screw Nut
None Shown	P-22637	Choke Tube Holder Assy
None Shown	P-11561	Choke Tube Clamp
None Shown	P-12868	Choke Tube Clamp Screw
None Shown	P-19328	Choke Tube Wire Connector
None Shown	P-284	Choke Tube Wire Connector Screw
None Shown	P-17093	Choke Tube Holder Attach Screw
None Shown	P-17059	Choke Lever Fulcrum Screw
None Shown	P-17058	Choke Lever Fulcrum Screw Bushing
None Shown	P-17068	Choke Valve Return Spring
None Shown	P-17132	Choke Lever Return Spring
None Shown	P-6666	Choke Stem Cotter Pin
None Shown	P-16318	Compression Union Assy
None Shown	P-22394	Copper Tubing

CHRYSLER 1935 MODEL "CZ" 1936 MODEL "C-8" (650787)

3¼"x4⅛"—8 Cylinder

A-17763 EXV-3 Carburetor (Code No 4-21C)

Std Part No	Special Parts	Used on Above Model Car	
P-15477	P-15477	No 54 Idle Air Bleeder	(B)
P-17004	P-17004	060" Metering Jet	(B)
P-20877	P-21326	No 28 Main Discharge Jet	(B)
P-21073	P-21073	Main Body with 1 $\frac{3}{16}$" Venturi and No 65 High Speed Bleeder	

DODGE 1936 "TAXI" (667622)

A-18372 EXV-2 Carburetor (Code No 3-31-A)

Std Part No	Special Parts	Used on Above Model Car
P-4	112-S-22	Fast Idle Rod Cotter Pin
P-15477	P-15477	No 50 Idle Air Bleeder
P-17004	P-17004	057" Metering Jet
P-19367	P-22724	Fast Idle Rod
P-20653	P-22722	Choke Lever
P-21169	P-22723	Fast Idle Lever
P-21656	P-22377	Throttle Valve Body No 56-58 Idle Holes No 50 Vac Spark Hole
None Shown	P-7098	Vacuum Channel Plug

DODGE 1937 "D-5" (671878)

A-18432 EXV-2 Carburetor (Code No. 3-33)

Std Part No	Special Parts	Used on Above Model Car
P-4	112-S-22	Fast Idle Rod Cotter Pin
P-15477	P-15477	No 50 Idle Air Bleeder
P-17004	P-17004	057" Metering Jet
P-19367	P-22724	Fast Idle Rod
P-20653	P-22722	Choke Lever
P-21067	P-22820	Float Chamber Cover Assy
P-21169	P-22723	Fast Idle Lever
None Shown	P-1791	Pump Lever Nut Lockwasher

PARTS AND SETTINGS EXCEPTIONS MODELS EXV-2 AND EXV-3 STANDARD CARBURETORS

ADDITIONAL

A-18762 EXV-2 Standard Carburetor
(Fast Idle) (1-1/32 Venturi) Code No. 1-83)

Std. Part No.	Special Part No. Used on Above Model	
P- 4735	P-17449	Washer - Choke Stem
P-17004	P-17004	Metering Jet - .051"
P-17007	P-19424	Assy. - Idle Tube & Holder
P-17020	P-14358	Pump Discharge Nozzle #70
P-18300	P-17059	Screw - Choke Lever Fulcrum
P-19339	P-23422	Screw - Main Body Attaching
P-20655	P-21716	Assy. - Choke Stem & Stop
P-21076	P-23228	Assy. - By-pass Jet (Pump) 4-#56
P-21171	P-23215	Assy. - Throttle Lever
P-21197	P-21198	Assy. - By-pass (Econ) 1 - #61
P-21653	P-21718-T	Assy. - Main Body - 1-1/32 Venturi, #70 H. S. B.
P-21656	P 23222	Assy. - Throttle Body - #56-58 Idle Holes
P-22722	P-17053	Assy. - Choke Lever
None Shown	P-1693	Lockwasher - Throttle Tube Holder Attach. Screw
	P-3292	Plug - Vac. Spark Cont. & Gov. Conn.
	P-7098	Plug - Vac. Suct. Channel
	P-15259	Screw - Throttle Tube Holder Attach.
	P-15424	Assy. - Loose Lever
	P-16318	Compression Union
	P-16465	Flange Gasket
	P-16487	Assy. - Loose Lever Stop
	P-17058	Bushing - Choke Lever Fulcrum Screw
	P-17067	Assy. - Choke Tube Holder
	P-17068	Spring - Choke Valve Return
	P-17093	Screw - Choke Tube Holder Attaching
	P-17132	Spring - Choke Lever Return
	P-22394	Copper Tubing
	P-23166	Assy. - Throttle Stop & Stem
	P-23209	Assy. - Throttle Tube Holder
	P-23232	Assy. - Adj. Metering Jet

Dodge 1936 D-3 & D-4 (658279)
A-18252 EXV-2 Carburetor (Code No. 3-28C)

Std. Part No.	Special Part No. Used on Above Model	
P-15477	P-15477	Air Bleed - Idle #53
P-17004	P-17004	Metering Jet .058"
P-17020	P-17020	Pump Discharge Nozzle - #70
P-20655	P-21716	Assy. - Choke Stem & Stop
P-21076	P-21076	Assy. - By-pass Jet (Pump) 4 - #56
P-21197	P-21197	Assy. - By-pass Jet (Econ.) #54
P-21653	P-21718-T	Assy. - Main Body - 1-5/32 Venturi, #70 H. S. B.
P-21656	P-21656	Assy. - Throttle Body #56-58 Idle Holes
None Shown	P-17053	Assy - Choke Lever
	P-17058	Bushing - Choke Lever Fulcrum Screw
	P-17059	Screw - Choke Lever Fulcrum
	P-17067	Assy. - Choke Tube Holder
	P-17068	Spring - Choke Valve Return
	P-17093	Screw - Choke Tube Holder Attach.
	P-17132	Spring - Choke Lever Return
	P-17449	Washer - Choke Stem
	P-21719	Block - Choke Stem

Dodge D-8 1938 (685270)
A-18712 EXV-2 Carburetor (Code No. 3-36A)

Std. Part No.	Special Part No. Used on Above Model	
112-S-22	P-7170	Cotter Pin - Fast Idle Lever
P-17004	P-17004	Metering Jet - .058"
P-17020	P-17020	Pump Discharge Nozzle - #70
P-18226	P-23638	Main Discharge Jet - #28-36
P-21067	P-23640	Assy. - Float Chamber Cover
P-21076	P-21076	Assy. - By-pass Jet (Pump) 4 - #56
P-21197	P-23676	Assy. - By-pass Jet (Econ.) 1 - #55
P-21653	P-23635	Assy. - Main Body - 1-5/32 Venturi
P-21656	P-23624	Assy. - Throttle Body - #56-58 Idle Holes
P-22723	P-23621	Fast Idle Lever
P-22724	P-23623	Fast Idle Rod
None Shown	P-23622	Fast Idle Cam

Stewart 1937 Model 40-A Buddy (C-36758)
Continental Model F-4162 3-7/16 x 4-3/8
four Cylinder
A-18662 EXV-2 Carburetor (Code No. 28-40B)

Std. Part No.	Special Part Used on Above Model	
P-4735	P-17449	Washer - Choke Stem
P-6454	P-23618	Throttle Valve - 20 degrees
P-15477	P-15477	Idle Air Bleed - #58 (B)
P-17004	P-17004	Main Metering Jet - .050
P-17007	P-19424	Assy. - Idle Tube & Holder
P-17020	P-14358	Pump Discharge Nozzle - #70
P-18226	P-23625	Main Discharge Jet - #28-36
P-18300	P-17059	Screw - Choke Lever Fulcrum
P-20655	P-18266	Assy. - Choke Stem & Stop
P-21076	P-23838	Assy. - By-pass jet (Pump) 4 #56 (B)
P-21171	P-20217	Throttle Stem
P-21197	P-21642	Assy. By-pass Jet (Econ.) #71
P-21653	P-21166-T	Assy. - Main Body - 1-1/32 Venturi, #70 H. S. B.
P-21656	P-22379	Throttle Body - #56-58 Idle Holes
P-21662	P-23233	Assy. Choke Valve
P-22722	P-17053	Assy. - Choke Lever
None Shown	P-3292	Plug - Vac. Spark Cont. & Gov. Conn.
	P-4577	Nut - Stop Clamp Screw
	P-2098	Plug - Vac. Suct. Channel
	P-7261	Assy. - Throttle Lever
	P-9025	Screw - Loose Lever Stop Clamp
	P-13245	Assy. - Throttle Stop
	P-14084	Assy. - Loose Lever
	P-16486	Loose Lever Stop
	P-16487	Assy. - Loose Lever Stop
	P-17058	Bushing - Choke Lever Fulcrum Screw
	P-17068	Spring - Choke Valve Return
	P-17093	Screw - Choke Tube Holder Attaching
	P-17132	Spring - Choke Lever Return
	P-21960	Pump Stem Spring
	P-22637	Assy. - Choke Tube Holder
	P-23229	Pump Rod Spring
	P-23568	Pump Rod Spring Washer
	P-23837	Pump Stabilizer Spring (B)

A-18642 EXV-2 Standard Carburetor
(Fast Idle) (Code No. 1-66)

Std. Part No.	Special Part No. Used on Above Model	
P-4735	P-17449	Washer - Choke Stem
P-17007	P-19424	Assy. - Idle Tube & Holder
P-18300	P-17059	Screw - Choke Lever Fulcrum
P-19339	P-23422	Screw - Main Body Attaching
P-20655	P-21716	Assy. - Choke Stem & Stop
P-20666	P-18215	Spring - Pump Stem
P-21171	P-23215	Assy. - Throttle Lever
P-21197	P-21657	Assy. - By-pass Jet (Econ.) #56
P-21653	P-21718-T	Assy. - Main Body 1-5/32 Venturi, #70 H. S. B.
P-21656	P-23222	Assy. - Throttle Body
P-22722	P-17053	Assy. - Choke Lever
None Shown	P-1693	Lockwasher - Throttle Tube Holder Attach.
	P-7098	Plug - Vac. Suct. Channel
	P-15259	Screw - Throttle Tube Holder Attach.
	P-15424	Assy. - Loose Lever
	P-16318	Assy. - Compression Union
	P-16465	Flange Gasket
	P-16487	Assy. - Loose Lever Stop
	P-17058	Bushing - Choke Lever Fulcrum Screw
	P-17067	Assy. - Choke Tube Holder
	P-17068	Spring - Choke Valve Return
	P-17093	Screw - Choke Tube Holder Attach.
	P-17132	Spring - Choke Lever & Stem
	P-21719	Block - Choke Stem
	P-22394	Copper Tubing
	P-23166	Assy. - Throttle Stop & Stem
	P-23209	Assy. - Throttle Tube Holder
	P-23232	Assy. - Adj. Metering Jet .058

(See also page 54-B-2)

PARTS AND SETTINGS EXCEPTIONS MODELS EXV-2 AND EXV-3 STANDARD CARBURETORS

ADDITIONAL

A-18772 **EXV-2** Standard Carburetor
(Fast Idle) (1-3/32 Venturi) (Code No. 1-84)

Std. Part No.	Special Part No. Used on Above Model	
P-4735	P-17449	Washer - Choke Stem
P-17004	P-17004	Metering Jet .055"
P-17007	P-19424	Assy. - Idle Tube & Holder
P-18300	P-17059	Screw - Choke Lever Fulcrum
P-19339	P-23422	Screw - Main Body Attaching
P-20655	P-21716	Assy. - Choke Stem & Stop
P-20666	P-18215	Spring - Pump Stem
P-21171	P-23215	Assy. - Throttle Lever
P-21197	P-21657	Assy. - By-pass Jet (Econ.) 1 - #56
P-21653	P-21718-T	Assy. - Main Body 1-3/32 Venturi, #70 H. S. B.
P-21656	P-23222	Assy. - Throttle Body #56-58 Idle Holes
P-22722	P-17053	Assy. - Choke Lever
None Shown	P-1693	Lockwasher - Throttle Tube Holder Attach. Screw
	P-3292	Plug - Vac. Spark Cont. & Gov. Conn.
	P-7098	Plug - Vac. Suct. Channel
	P-15259	Screw - Throttle Tube Holder Attach.
	P-15424	Assy. - Loose Lever
	P-16318	Compression Union
	P-16465	Flange Gasket
	P-16487	Assy. - Loose Lever Stop
	P-17058	Bushing - Choke Lever Fulcrum Screw
	P-17067	Assy. - Choke Tube Holder
	P-17068	Spring - Choke Valve Return
	P-17093	Screw - Choke Tube Holder Attach.
	P-17132	Spring - Choke Lever Return
	P-21719	Block - Choke Stem
	P-22394	Copper Tubing
	P-23166	Assy. - Throttle Stop and Stem
	P-23209	Assy. - Throttle Tube Holder
	P-23232	Assy. - Adj. Metering Jet

A-18643 **EXV-3** Standard Carburetor
(Fast Idle) Code No. 1-67)

Std. Part No.	Special Part No. Used on Above Model	
P-7170	112-S-22	Cotter Pin - Fast Idle Rod
P-18300	P-17059	Screw - Choke Lever Fulcrum
P-19339	P-23422	Screw - Main Body Attaching
P-19367	P-22724	Rod - Fast Idle
P-20657	P-22722	Assy. - Choke Lever
P-20877	P-21326	Main Discharge Jet #28
P-21062	P-23221	Assy. - Throttle Body - #56-58 Idle Holes
P-21073	P-22397	Assy. - Main Body 1-3/16 Venturi, #65 H. S. B.
P-21168	P-14727	Assy. - Throttle Lever
P-21169	P-22723	Lever - Fast Idle
P-21197	P-21657	Assy. - By-pass Jet (Econ.) 1 #56,
None Shown	P-1693	Lockwasher - Throttle Tube Holder attach. Screw
	P-3199	Screw - Throttle Lever Clamp
	P-3292	Plug - Vac. Spark Cont. & Gov. Conn.
	P-7098	Plug - Vac. Suction Channel
	P-15259	Screw - Throttle Tube Holder Attach.
	P-15804	Flange Gasket
	P-16318	Compression Union
	P-17053	Assy. - Choke Lever
	P-17058	Bushing - Choke Lever Fulcrum Screw
	P-17067	Assy. - Choke Tube Hold
	P-17068	Spring - Choke Valve Return
	P-17093	Screw - Choke Tube Holder Attach.
	P-17132	Spring - Choke Lever Return
	P-17287	Assy. - Loose Lever Stop
	P-21716	Assy. - Choke Stem & Stem
	P-21719	Block - Choke Stem
	P-22394	Copper Tubing
	P-23207	Assy. - Throttle Stop & Stem
	P-23209	Assy. - Throttle Tube Holder
	P-23217	Assy. - Loose Lever
	P-23232	Assy. - Adj. Metering Jet .060"

(See also page 54-B-1)

SPECIFICATIONS OF STANDARD EQUIPPED PASSENGER CARS PARTS AND SETTINGS EXCEPTIONS MODELS EXV-2 AND EXV-3 STANDARD CABBURETORS

(Continued)

DODGE "D 6 D-7" 1937 (671887)

3⅛ -3¼"x4⅜"—6 Cyl

A-18442 EXV-2 Carburetor (Code No 3-34)

Std Part No	Special Parts Used on Above Model Car	
P-4	112-S-22	Fast Idle Rod Cotter Pin
P-15477	P-15477	No 50 Idle Air Bleeder
P-17004	P-17004	057 Metering Jet
P-19367	P-22724	Fast Idle Rod
P-20653	P-22722	Choke Lever Assy
P-20655	P-21716	Choke Stem and Stop Assy
P-21067	P-22818	Float Chamber Cover
P-21169	P-22723	Fast Idle Lever
P 21653-T	P-21718-T	Main Body Assy $1\frac{5}{32}$ Venturi No 70 H S Bleeder
None Shown	P-17067	Choke Tube Holder Assy
None Shown	P-11561	Choke Tube Clamp
None Shown	P-12868	Choke Tube Clamp Screw
None Shown	P-8806	Choke Tube Clamp Screw Nut
None Shown	P-17059	Choke Lever Fulcrum Screw
None Shown	P-17058	Choke Lever Fulcrum Screw Bushing
None Shown	P-17068	Choke Valve Return Spring
None Shown	P-17449	Choke Stem Washer
None Shown	P-17093	Choke Tube Holder Attaching Screw
None Shown	P-17132	Choke Lever Return Spring
None Shown	P-17053	Choke Lever and Wire Connector Assy
None Shown	P-12867	Choke Wire Clamp Screw
None Shown	P-21719	Choke Stem Block
None Shown	P-1791	Pump Lever Nut Lockwasher

GRAHAM 1935 MODEL "74" (82658)

3"x4"—6 Cylinder

A-18142 EXV-2 Carburetor (Code No 9-18-A)

Std Part No	Special Parts Used on Above Model Car	
P-15477	P-15477	No 52 Idle Air Bleeder
P-17004	P-17004	050 Metering Jet
P-17007	P-19874	Idle Tube No 70 Feed Hole
P-17020	P-17020	No 72 Pump Discharge Nozzle
P-18226	P-21337	No 28-36 Main Discharge Jets
P-19167	P-19565	Pump Piston and Stem
P-19339	P-17000	Main Body Gasket
P-20203	P-20958	Pump Link
P-20653	P-18427	Choke Lever and Wire Conn
P-20655	P-18266	Choke Stem and Stop
P-20666	P-18215	Pump Spring
P-20774	P-18916	Float Needle Valve and Seat
P-21171	P-19761	Throttle Lever and Stem
P-21197	P-21198	Vac Econ By-Pass Jet (1 No 61)
P-21653-T	P-21166-T	Main Body with $1\frac{1}{32}$" Venturi, No 70 High Speed Bleeder
P-21654	P-21164	Main Body Gasket
P-21656	P-21163	Throttle Valve Body with No 56-58 Idle Hole, No 50 Vac Spark Hole (Flush)

Std Part No	Special Parts Used on Above Model	
P-21662	P-18473	Choke Valve
J-4608-G	J-4546-G	Complete Gasket Set
None Shown	P-17068	Choke Valve Return Spring
None Shown	P-17132	Choke Lever Return Spring
None Shown	P-17449	Choke Stem Washer
None Shown	P-17058	Choke Lever Bushing
None Shown	P-17059	Choke Lever Fulcrum Screw
None Shown	P-17067	Choke Tube Holder
None Shown	P-17093	Choke Tube Holder Attach Screw
None Shown	P-19596	Throttle Cracking Lever
None Shown	P-18362	Throttle Cracking Rod
None Shown	P-17050	Throttle Cracking Rod Spring
None Shown	P-9394	Throttle Cracking Rod Washer
None Shown	P-7170	Throttle Cracking Rod Cotter Pin

NOTE Throttle Valve Location Flush Plus or Minus 004

NOTE Pump Capacity 10 to 14 CC (Slow) and 4 to 7 CC (Fast) per 10 Strokes

NOTE Pump Travel $\frac{5}{16}$' Pump Stroke at Middle Adjustment

NOTE Throttle Valve To Crack Open 073 (No 49 Drill) when Choke is Fully Closed

WHITE 1936 MODELS '704", "706", "709" (D-19370)

Own 11, 13 and 16-A Engines

F-4352 EXV 2 Carburetor (Code No. 29-21)

Std Part No	Special Parts Used on Above Model	
P-4735	P-17449	Choke Stem Washer
P-19339	P-17000	Main Body Attaching Screw
P-19374	P-18114	Pump Link Cotter Pin
P-20203	P-18141	Pump Link
P-20653	P-17053	Choke Lever Assy
P-20655	P-18266	Choke Stem and Stop Assy
P-21171	P-5934 P-20217	Throttle Lever Assy Throttle Stem
P-21653-T	P-21718-T	Main Body $1\frac{5}{32}$ Venturi No 70 H S Bleeder
P-21654	P-21164	Main Body Gasket
P-21656	P-22379	Throttle Body No 56-58 Idle Holes, No 50 Vacuum Spark Hole
None Shown	P-3292	Vac Spark Control and Governor Boss Pipe Plug ⅛'
None Shown	P-7098	Vac Suction Channel Plug
None Shown	P-13245	Throttle Stop Assy
None Shown	P-14084	Loose Lever Assy
None Shown	P-9270	Loose Lever Wire Clamp Screw
None Shown	P-16487	Loose Lever Stop Assy
None Shown	P-9025	Loose Lever Stop Clamp Screw
None Shown	P-4517	Loose Lever Stop Clamp Screw Nut
None Shown	P-22637	Choke Tube Holder Assy
None Shown	P-11561	Choke Tube Clamp
None Shown	P-12868	Choke Tube Clamp Screw
None Shown	P-19328	Choke Tube Wire Connector
None Shown	P-284	Choke Tube Wire Connector Screw
None Shown	P-17059	Choke Lever Fulcrum Screw
None Shown	P-17058	Choke Lever Fulcrum Screw Bushing
None Shown	P-17068	Choke Valve Return Spring
None Shown	P-17093	Choke Tube Holder Attach Screw
None Shown	P-17132	Choke Lever Return Spring
None Shown	P-11577	Choke Lever Wire Connector
None Shown	P-12867	Choke Lever Wire Connector Screw

Pump Capacity 11 to 16 CC Fast and 15 to 19 CC Slow per 10 Strokes within Minimum Adjustment

Pump Travel Setting Minimum

REPLACEMENT EQUIPMENT
PARTS AND SETTINGS EXCEPTIONS MODELS EXV-2 AND EXV-3 STANDARD CARBURETORS
(Passenger Cars)

CHRYSLER 1935 "C-6" 1936 "C-7"
DE SOTO 1935 "SF AND SG' 1936 "S1 AND S2"
$3\frac{3}{8}$"x$4\frac{1}{2}$'—6 Cylinders

J-4590 EXV-3 Carburetor (Code No 4-46)

Std Part No	Special Parts Used on Above Model Car	
P-15477	P-15477	No 54 Idle Air Bleeder
P-17004	P-17004	056" Metering Jet
P-20877	P-21326	No 28 Main Discharge Jet
P-20887	P-18916	Float Needle Valve and Seat
P-21073	P-21073	Main Body with $1\frac{3}{16}$" Venturi and No 65 High Speed Bleeder

GRAHAM 1936 MODEL CRUSADER '80"
3 x4'—6 Cylinder

J-4743 EXV-2 Carburetor (Code No 9-29)

Std Part No	Special Parts Used on Above Model Car	
P-15477	P-15477	No 52 Idle Air Bleeder
P-17004	P-17004	050 Metering Jet
P-17007	P-19874	Idle Tube No 70 Feed Hole
P-17020	P-17020	No 72 Pump Discharge Nozzle
P-18226	P-21337	No 28-36 Main Discharge Jets
P-19167	P-19565	Pump Piston and Stem
P-19339	P-17000	Main Body Gasket
P-20203	P-20958	Pump Link
P-20653	P-18427	Choke Lever and Wire Conn
P-20655	P-18266	Choke Stem and Stop
P-20666	P-18215	Pump Spring
P-20774	P-18916	Float Needle Valve and Seat
P-21171	P-19761	Throttle Lever and Stem
P-21197	P-21198	Vac Econ By-Pass Jet (1 No 61)
P-21653-T	P-21166-T	Main Body with $1\frac{1}{32}$ Venturi No 70 High Speed Bleeder
P-21654	P-21164	Main Body Gasket
P-21656	P-21163	Throttle Valve Body with No 56-58 Idle Holes No 50 Vac Spark Hole (Flush)
P-21662	P-18473	Choke Valve
None Shown	P-17068	Choke Valve Return Spring
None Shown	P-17132	Choke Lever Return Spring
None Shown	P-17449	Choke Stem Washer
None Shown	P-17058	Choke Lever Bushing
None Shown	P-17059	Choke Lever Fulcrum Screw
None Shown	P-17067	Choke Tube Holder
None Shown	P-17093	Choke Tube Holder Attach Screw
None Shown	P-19596	Throttle Cracking Lever
None Shown	P-18362	Throttle Cracking Rod
None Shown	P-17050	Throttle Cracking Rod Spring
None Shown	P-9394	Throttle Rod Washer
None Shown	P-7170	Throttle Cracking Rod Cotter Pin
None Shown	P-8819	Union Nipple
None Shown	P 2714	Street Elbow

NOTE Throttle Valve Location Flush plus or minus 004

NOTE Pump Capacity 10 to 14 CC (Slow) and 4 to 7 CC (Fast) per 10 Strokes

NOTE Pump Travel $\frac{5}{16}$ Pump Stroke at Middle Adjustment

NOTE Throttle Valve To Crack Open 073 (No 49 Drill) when Choke is Fully Closed

INTERNATIONAL HARVESTER CO
MODELS 'B-3, B-4, C-35, C-40, CS-35 CS-40"—1933 36
$3\frac{7}{16}$ x4"—6 Cyl FAB-3 Engine

J-4746 EXV-2 Carburetor (Code No 32-19)

Std Part No	Special Parts Used on Above Model	
P 4735	P-17449	Choke Stem Washer
P-18130 P 17004	P-18931	Adj Metering Jet
P-20203	P-19373	Pump Link
P-20653	P-17053	Choke Lever Assy

Std Part No	Special Parts Used on Above Model	
P-20655	P-18266	Choke Stem and Stop Assy
P-21171	P-22844 P-21191	Throttle Lever Assy on Right Side Throttle Stem
P-21653-T	P-21718-T	Main Body $1\frac{5}{32}$ Venturi, No 70 H S Bleeder
P-21656	P-22379	Throttle Body No 56-58 Idle Holes No 50 Vac Spark Hole
None Shown	P-3292	Vac Spark Control and Governor Boss Pipe Plug ⅛
None Shown	P-7098	Vac Suction Channel Plug
None Shown	P-13245	Throttle Stop Assy
None Shown	P-14084	Loose Lever Assy
None Shown	P-9270	Loose Lever Wire Clamp Screw
None Shown	P-16487	Loose Lever Stop Assy
None Shown	P-9025	Loose Lever Stop Clamp Screw
None Shown	P-4517	Loose Lever Stop Clamp Screw Nut
None Shown	P-22637	Choke Tube Holder Assy
None Shown	P-11561	Choke Tube Clamp
None Shown	P-12868	Choke Tube Clamp Screw
None Shown	P-19328	Choke Tube Wire Connector
None Shown	P-284	Choke Tube Wire Connector Screw
None Shown	P-17059	Choke Lever Fulcrum Screw
None Shown	P-17058	Choke Lever Fulcrum Screw Bushing
None Shown	P-17068	Choke Valve Return Spring
None Shown	P-17093	Choke Tube Holder Attach Screw
None Shown	P-17132	Choke Lever Return Spring
None Shown	P-11577	Choke Lever Wire Connector
None Shown	P-12867	Choke Lever Wire Connector Screw
None Shown	P-8806	Nut

EQUIPMENT

P-4752 Flange Gasket—P-16318 Union—P-22394 Vacuum Line—P-22838 Air Cleaner Adapter

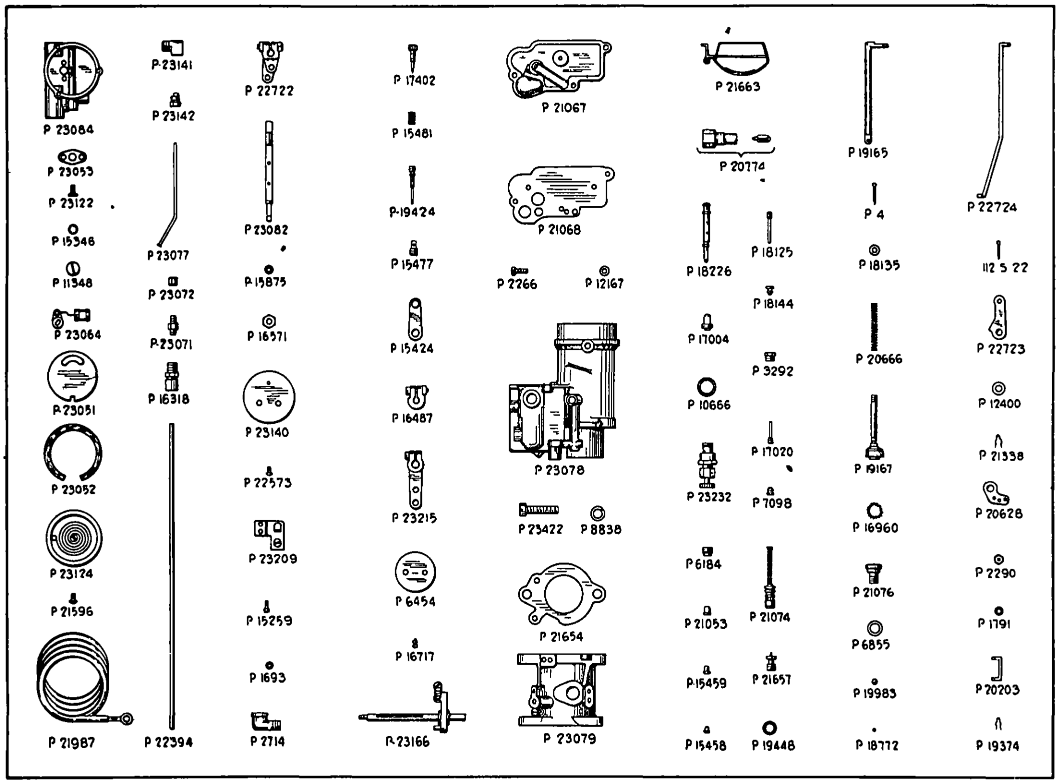
PLYMOUTH 1933 TO 1936 (CODE NO 15-7)
PONTIAC 6 AND 8 1933 TO 1936 (CODE NO 13-8)
HUDSON 6 AND 8 1934 TO 1936 (CODE NO 22-4)
TERRAPLANE 1934 TO 1936 (CODE NO 21-8)
A-18462 EXV-2 Carburetor

Std Part No	Special Parts Used on Above Model Cars	
P-4	112-S-22	Fast Idle Rod Cotter Pin
P-17004	P-17004	057 Metering Jet
P-19367	P-22724	Fast Idle Rod
P-20653	P-22722	Choke Lever Assy
P-20655	P-21716	Choke Stem and Stop Assy
P-21169	P-22723	Fast Idle Lever
P-21653-T	P 21718-T	Main Body Assy $1\frac{5}{32}$ Venturi No 70 H S Bleeder
None Shown	P-17067	Choke Tube Holder Assy
None Shown	P-11561	Choke Tube Clamp
None Shown	P-12868	Choke Tube Clamp Screw
None Shown	P-8806	Choke Tube Clamp Screw Nut
None Shown	P-17059	Choke Lever Fulcrum Screw
None Shown	P-17058	Choke Lever Fulcrum Screw Bushing
None Shown	P-17068	Choke Valve Return Spring
None Shown	P-17449	Choke Stem Washer
None Shown	P-17093	Choke Tube Holder Attaching Screw
None Shown	P-17132	Choke Lever Return Spring
None Shown	P-17053	Choke Lever and Wire Connector Assy
None Shown	P-12867	Choke Wire Clamp Screw
None Shown	P-21719	Choke Stem Block
None Shown	P-1791	Pump Lever Nut Lockwasher

EQUIPMENT

P-16465 Flange Gasket—P-2714 Street Elbow

NOTE When ordering above carburetor for Plymouth it will be necessary to order 1 P-18516 Gas line assy as additional equipment



EXV-25

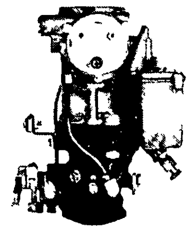
NO. A-18572
1¼" CARB SAE
1⅜" Venturi

NO. A-18752
1¼" CARB. SAE
1⅜" Venturi

NO. A-18742
1¼" CARB SAE
1½" Venturi

EXV-35

NO. A-18573
1½" CARB SAE



Notes and References

Car models having this carburetor with parts exceptions therefor are shown on back of this page

†These parts not illustrated

‡Indicates Sub-assembly part

PARTS LIST STROMBERG MODELS EXV-25 AND EXV-35 STANDARD CARBURETORS

EXV-25 Part No.	EXV-35 Part No.	Part Name	
112-S-22	112-S-22	Cotter Pin—Fast Idle Rod	
P-4	P-4	Cotter Pin—Fast Idle Rod	
P-1693	P-1693	Lockwasher—Thro Tube Holder Att Screw	
P-1791	P-1791	Lockwasher—Pump Lever Nut	
P-2266	P-2266	Screw—Float Chamber Cover Attaching	
P-2290	P-2290	Pump Lever Nut	
P-2714	P-2714	Street Elbow	
P-3292	P-3292	Plug—Vacuum Spark & Econ Channel	
P-6184	P-6184	Plug—Pump Check Valve Channel	
P-6454	P-5436	Valve—Throttle	
P-6855	P-6855	Gasket—By-Pass Jet	
P-7098	P-7098	Plug—Vacuum Channel	
P-8838	P-8838	Lockwasher—Main Body Att Screw	
P-10666	P-10666	Gasket—Adj Metering Jet	
P-11348	P-11348	Plug—Vacuum Piston Channel ½"	
P-12167	P-12167	Lockwasher—Float Chamber Cover Att Screw	
P-12400	P-12400	Washer—Fast Idle Lever	
P-15259	P-15259	Screw—Throttle Tube Holder Att	
P-15346	P-15346	Lockwasher—Therm Housing Att Screw	
P-15424	P-23217	Assembly—Loose Lever	
P-15458	P-6387	Plug—Idle Discharge Channel No 10	
P-15459	P-15459	Plug—Idle Channel ¼"	
P-15477	P-15477	Air Bleed—Idle	
P-15481	P-15481	Spring—Idle Needle Valve	
P-15875	P-15875	Lockwasher—Vacuum Piston Lever	
P-16318	P-16318	Assembly—Compression Union	
P-16465	P-15804	Flange Gasket	
P-16487	P-17287	Assembly—Loose Lever Stop	
P-16571	P-16571	Nut—Vacuum Piston Lever	
P-16717	P-16716	Screw—Throttle Valve Attaching	
*P-17004	*P-17004	Metering Jet	(VAR)
*P-17020	P-17020	Nozzle—Pump Discharge	(VAR)
P-17402	P-17402	Valve—Idle Needle	
P-18125	P-18125	Screw—Float Fulcrum	
P-18135	P-18135	Pump Rod Nut	
P-18144	P-18144	Pump Check Valve Assembly	
P-18226	P-21326	Main Discharge Jet	
P-18772	P-18772	Lead Ball	
P-19165	P-19165	Pump Rod	
P-19167	P-19167	Pump Piston and Stem Assembly	
‡P-16960	‡P-16960	Spring—Piston Expansion	
P-19374	P-19374	Cotter Pin—Pump Link	
P-19424	P-19424	Idle Tube and Holder Assembly	
P-19448	P-19448	Gasket—Vacuum Econ By-Pass Jet	
P-19983	P-19983	Lead Ball—Main Body	
P-20203	P-20203	Pump Link	
P-20628	P-20628	Pump Lever	
P-20666	P-18215	Spring—Pump Stem	
P-20774	P-20887	Float Needle Valve and Seat	
P-21053	P-21053	Plug—Pump Discharge Channel	
P-21067	P-21067	Assembly—Float Chamber Cover	
P-21068	P-21068	Gasket—Float Chamber Cover	
P-21074	P-21074	Assembly—Vacuum Economizer	
*P-21076	*P-21076	By-Pass Jet Assembly (Pump)	(VAR)
P-21338	P-21338	Cotter Pin—Fast Idle Lever Washer	
P-21596	P-21596	Screw—Electric Unit Attaching	
P-21654	P-21064	Gasket—Main Body	
P-21655	P-21065	Gasket—Main Body (Insulator)	
*P-21657	*P-21657	By-Pass Jet Assembly (Econ)	(VAR)
P-21663	P-21663	Assembly Float and Lever	
P-21987	P-21987	Auto Choke Wire	
P-22394	P-22394	Copper Tubing	
P-22573	P-22573	Screw—Choke Valve Att	
P-22722	P-22722	Assembly—Choke Lever	
P-22723	P-22723	Lever—Fast Idle	
P-22724	P-22724	Rod—Fast Idle	
P-23050	P-23050	Assembly—Thermostat Housing	
‡P-18772	‡P-18772	Ball—Lead	
‡P-22986	‡P-22986	Plug—Expansion	
P-23051	P-23051	Plate—Electric Unit Baffle	
P-23052	P-23052	Insulator—Electric Unit	
P-23053	P-23053	Gasket—Therm Housing Boss	
P-23055	P-23055	Assembly—Thermostat and Electric Unit	
P-23064	P-23064	Assembly—Vacuum Piston and Link	
P-23071	P-23071	Nipple—Vacuum Tube	
P-23072	P-23072	Nut—Vacuum Tube	
P-23077	P-23077	Tube—Vacuum	
*P-23078	*P-23214	Main Body	(VAR)
*P-23079	*P-23208	Assembly Throttle Body	(VAR)
P-23082	P-23082	Stem—Choke	
P-23084	P-23084	Assembly—Thermostat Housing	
P-23122	P-23122	Screw—Thermostat Housing Att	
P-23124	P-23124	Assembly Electric Unit	
‡P-1693	‡P-1693	Lockwasher—Conn Post Nut	
‡P-9284	‡P-9284	Nut—Connector Post	
‡P-21030	‡P-21030	Nut—Binding Post (Knurled)	
‡P-21032	‡P-21032	Washer—Steel	
‡P-21033	‡P-21033	Washer—Insulation	
‡P-23123	‡P-23123	Washer—Connector Post	
P-23140	P-23140	Assembly—Choke Valve	
P-23141	P-23141	Nipple—Elbow—Vac Tube	
P-23142	P-23142	Nut—Elbow Vac	
P-23166	P-23207	Assembly—Throttle Stop and Stem	
‡P-15456	‡P-15456	Screw—Idle Adj	
‡P-15831	‡P-15831	Spring—Idle Adj	
P-23209	P-23209	Assembly—Throttle Tube Holder	
P-23215	P-14727	Assembly—Throttle Lever	
P-23232	P-23232	Assembly—Adjustable Metering Jet	
P-23422	P-23422	Screw—Main Body Att	

J-5329-G Complete set of Gaskets **EXV-25 Carb**
J-4544-G Complete set of Gaskets **EXV-35 Carb.**

*NOTE On parts marked (VAR) size must be specified when ordering

STANDARD SPECIFICATIONS

A-18572 EXV-25 Carburetors (Code No 1-64)

P-6454	20° Throttle Valve
P-15477	No 50 Idle Air Bleed
P-17004	058" Metering Jet
P-17020	No 70 Pump Discharge Nozzle
P-18226	No 28 36 Main Discharge Jet
P-21076	4-No 56 By-Pass Jet (Pump)
P-21657	1-No 56 By-Pass Jet (Economizer)
P-23078	Main Body—1$\frac{5}{32}$" Venturi, No 70 H S Bleeder
P-23079	Throttle Body—No 56-58 Idle Discharge Holes
P-23232	058" Adjustable Metering Jet

A-18752 EXV-25 Carburetor (Code No 1-82)

P-6454	20° Throttle Valve
P-15477	No 53 Idle Air Bleed
P-17004	055" Metering Jet
P-17020	No 70 Pump Discharge Nozzle
P-18226	No 28-36 Main Discharge Jet
P-21076	4-No 56 By-Pass Jet (Pump)
P-21657	1-No 56 By-Pass Jet (Economizer)
P-23078	Main Body—1-3/32" Venturi, No 70 H S Bleeder
P-23079	Throttle Body—No 56-58 Idle Discharge Holes
P-23232	Adjustable Metering Jet

A-18742 EXV-25 Carburetor (Code No 1-81)

P-6454	20° Throttle Valve
P-14358	No 70 Pump Discharge Nozzle
P-15477	No 54 Idle Air Bleed
P-17004	051" Metering Jet
P-18226	No 28-36 Main Discharge Jet
P-21198	1-No 61 By-Pass Jet (Economizer)
P-23078	Main Body—1-1/32" Venturi, No 70 H S Bleeder
P-23079	Throttle Body—No 56-58 Idle Discharge Holes
P-23228	4-No 56 By-Pass Jet (Pump)
P-23232	Adjustable Metering Jet

A-18573 EXV-35 Carburetor (Code No 1-65)

P-5436	20° Throttle Valve
P-15477	No 54 Idle Air Bleed
P-17004	060 Metering Jet
P-17020	No 64 Pump Discharge Nozzle
P-21076	4-No 56 By-Pass Jet (Pump)
P-21326	No 28 Main Discharge Jet
P-21657	1-No 56 By-Pass Jet (Economizer)
P-23208	Throttle Body—No 56-58 Idle Discharge Holes
P-23214	Main Body—1-3/16" Venturi, No 65 H S Bleeder
P-23232	058 Adjustable Metering Jet

STANDARD SETTINGS FOR EXV-25 AND EXV-35 CARBURETORS

Throttle Valve Location Upper lip of throttle valve to be (018" EXV-25) and (012" EXV-35) plus or minus 004" below lower edge of upper idle hole

Pump Capacity EXV-25 11-15 CC (Fast) and 15-19 (Slow) per 10 strokes (Middle adjustment)
EXV-35 11-15 CC (Fast) and 15-19 CC (Slow) per 10 strokes (Middle adjustment)

Pump Travel Setting Middle holes on pump lever

Fuel Level ⅝" below top face of float chamber at 3 lbs pressure

Slow Idle Set Screw (EXV-25 ¾ turn) (EXV-35 1 turn open)

REPLACEMENT EQUIPMENT

PARTS AND SETTINGS EXCEPTIONS MODELS EXV-25 AND EXV-35 STANDARD CARBURETORS

WILLYS 1933-37
3⅛"x4⅜"—4-Cylinders
J-4855 EXV-25 Carburetor (Code No 96-9)

Std Part No.	Special Parts Used on Above Model	
P-17004	P-17004	049" Metering Jet
P-17020	P-14358	No 75 Pump Discharge Jet
P-19424	P-19874	Idle Tube
P-21076	P-23228	4-No 56 By-Pass Jet (Pump)
P-21657	P-21198	1-No 61 By-Pass Jet (Economizer)
P-23078	P-23078	Main Body—1-1/32" Venturi No 70 H S Bleeder
P-23079	P-23613	Throttle Body—No 56-58 Idle Discharge Holes
P-23232	P-23232	049" Adjustable Metering Jet
None Shown	P-2714	Street Elbow
None Shown	P-23614	Throttle Lever Assembly

PACKARD 1937 MODEL 115-C
3$\frac{7}{16}$"x4¼"—6-Cylinder
J-4843 EXV-25 Carburetor (Code No 10-31)

Std Part No	Special Parts Used on Above Model Cars	
P-15477	P-15477	No 46 Idle Air Bleed
P-23215	P-23442	Throttle Lever Assembly

NOTE Drill No 50 hole for vacuum spark control hole to be 035" exposed when throttle valve is fully closed

PLYMOUTH 1933-37
PONTIAC 1933-37 6 & 8
HUDSON 1934-36 6 & 8
TERRAPLANE 1934-36
OLDSMOBILE 1936 "F-36"

A-18562 EXV-25 Carburetor (Code, Nos Plymouth 15-8, Pontiac 13-10, Hudson, 22-6; Terraplane, 21-10, Oldsmobile, 5-30)
(1$\frac{5}{32}$" Venturi)

Std Part No	Special Parts Used on Above Model Cars	
P-19424	P-17007	Assembly—Idle Tube and Holder
P-23422	P-19339	Screw—Main Body Attaching
None Shown	P-21171	Assembly—Throttle Lever and Stem
None Shown)	P-15456	Screw—Idle Adjustment
None Shown	P-15831	Spring—Idle Adjustment Screw

CHRYSLER—DESOTO 1935-37
3⅜"x4¼" & 4½"—6-Cylinder
J-4846 EXV-35 Carburetor (Chrysler Code No 4-75; DeSoto Code No 16-8)

Std Part No	Special Parts Used on Above Models	
P-17004	P-17004	058" Metering Jet
P-21657	P-21197	1-No 56 By-Pass Jet (Economizer)
P-23207 P-14727	P-21168	Throttle Lever and Stem
None Shown	P-17481	Gas Union Elbow

GRAHAM 1936-37 MODEL "120" SUPERCHARGED
3¼"x4⅜"—6-Cylinder
J-4854 EXV-35 Carburetor (Code No. 9-32)

Std Part No	Special Parts Used on Above Model	
P-17004	P-17004	058" Metering Jet
P-21326	P-19546	No 32 Main Discharge Jet
P-23207	P-23616	Throttle Stop and Stem
None Shown	P-3221	Union Elbow

NOTE Drill No 56 hole for vacuum spark control, hole to be exposed 023" when throttle valve is fully closed

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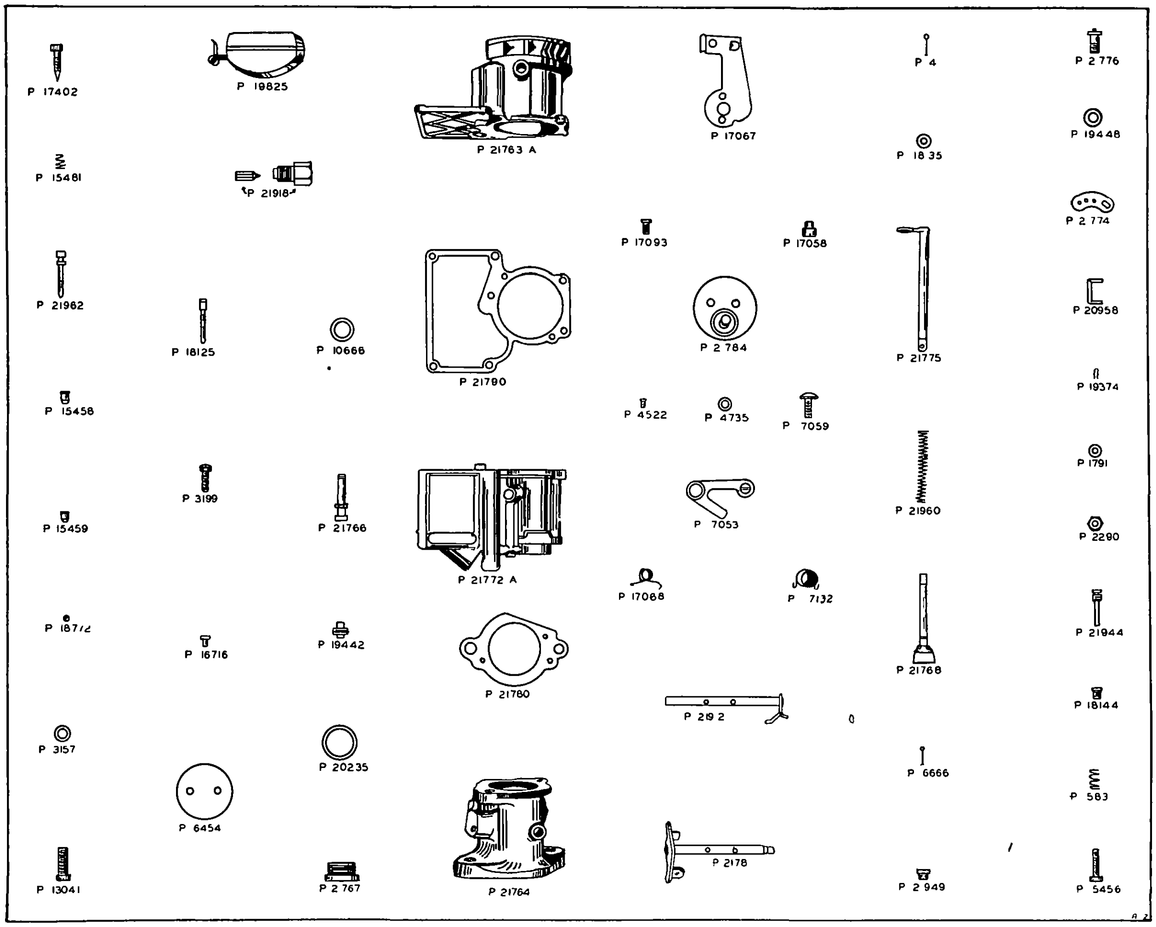
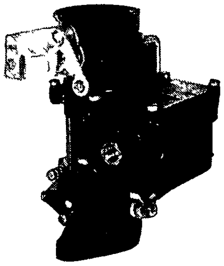


AX-2
N . A-18322
1¼" CARB. SAE



Notes and References:
Car models having this carburetor with parts exceptions therefor are shown on back of this page

‡Indicates Sub-assembly part

PARTS LIST STROMBERG MODEL "AX-2" CARBURETOR (as used on 1936 Nash Model 3640 and 1937 Lafayette Model 3710)

Part No.	Part Name	
P-4	Pump Stem Adjusting Nut Cotter Pin	
P-1791	Air Horn Attach Screw Lock Washer	
P-2290	Pump Lever Nut	
P-3157	Main Body Attach Screw Lock Washer	
P-3199	Air Horn Attaching Screw	
P-4522	Choke Valve Attach Screw	
P-4735	Choke Stem Washer	
*P-6454	Throttle Valve	(VAR)
P-6666	Choke Stem Washer Cotter Pin	
P-10666	Float Needle Valve Seat Gasket	
P-13041	Main Body Attach Screw	
P-15456	Idle Adjusting Screw	
P-15458	Idle Discharge Channel Drive Plug (No 10)	
P-15459	Idle Drilling Channel Drive Plug (¼")	
P-15481	Idle Needle Valve Spring	
P-15831	Idle Adjusting Screw Spring	
P-16716	Throttle Valve Attach Screw	
P-17053	Choke Lever	
‡P-12867	Choke Lever Connector Clamp Screw	
P-17058	Choke Lever Fulcrum Screw Bushing	
P-17059	Choke Lever Fulcrum Screw	
P-17067	Choke Tube Holder	
‡P-11561	Choke Tube Clamp	
‡P-12868	Choke Tube Clamp Screw	
‡P-8806	Choke Tube Clamp Screw Nut	
P-17068	Choke Valve Return Spring	
P-17093	Choke Tube Holder Attach Screw	
P-17132	Choke Lever Return Spring	
P-17402	Idle Needle Valve	
P-18125	Float Fulcrum Screw	
P-18135	Pump Stem Adjusting Nut	
P-18144	Pump Check Valve	
P-18366	Pump Link Cotter Pin	
P-18772	Lead Ball	
*P-19442	Metering Jet	(VAR)
P-19448	By-Pass Jet Gasket	
P-19825	Float	
P-20958	Pump Link	
P-21763-A	Air Horn	
*P-21764	Throttle Valve Body	(VAR)
P-21766	Main Discharge Jet	
P-21767	Main Discharge Jet Plug	
P-21768	Pump Piston and Stem	
P-21772-A	Main Body	(VAR.)
P-21774	Pump Lever	
P-21775	Pump Rod	
P-21776	By-Pass Jet	
P-21780	Main Body Gasket	
P-21781	Throttle Lever and Stem	
†P-21783	Air Horn with Valve Complete	
P-21784	Choke Valve	
P-21790	Air Horn Gasket	
P-21912	Choke Stem and Stop	
P-21918	Float Needle Valve and Seat	
*P-21944	Pump Discharge Nozzle	(VAR)
P-21960	Pump Stem Spring	
P-21962	Idle Tube	
P-21949	Pump Discharge Channel Plug	
P-22851	Main Discharge Jet Plug Gasket	

J-4611-G AX 2 Complete Gasket Set

*NOTE On parts marked (VAR) size must be specified when ordering

STANDARD SPECIFICATIONS

LAFAYETTE 1937 MODEL "3710" AND
NASH 1936 MODEL "3640" (90457)
3⅜"x4⅜"—6 Cylinders
A-18322 AX-2 Carburetor (Code No. 8-25-A)

Part No.	Part Name
P-6454	18½° Throttle Valve
P-19442	056′ Main Metering Jet (A)
P-21764	Throttle Valve Body with No 56-58 Idle Holes
P-21766	No 32 Main Discharge Jet
P-21772-A	Main Body with 1⅛′ Venturi, No 70 H Speed Bleeder and No 53 Idle Air Bleeder
P-21776	By-Pass Jet (2 No 56)
P-21944	No 59 Pump Discharge Nozzle
P-21962	Idle Tube (No 68 Feed Hole)

STANDARD SETTINGS FOR AX-2 CARBURETOR

Throttle Valve Location Upper Lip of Throttle Valve to be 012" Plus or Minus 004 below Lower Edge of Upper Idle Hole

Pump Capacity 8 to 12 CC (Fast) and 14 to 18 CC (Slow) with Middle Pump Adjustment (10 Strokes) 11 to 15 CC (Fast) and 18-22 CC (Slow) with Max Pump Adjustment (10 Strokes)

Pump Travel Setting Maximum between October 1st and March 31st Middle between April 1st and September 30th

Economizer Adjust the Pump Piston Stem Nut until piston rests on Seat of By-Pass Jet Less Over Travel, with Throttle Valve Cracked Open with 21/64 Drill (Max Pump Travel—Eng Hole in Pump Lever)

Slow Idle Set Screw 1 Turn from Closed Throttle Position

Fuel Level ⅝" below Top Face of Float Chamber at 3 lbs Pressure

SPECIFICATIONS OF STANDARD EQUIPPED PASSENGER CARS

PARTS AND SETTINGS EXCEPTIONS MODEL AX-2 STANDARD CARBURETOR

(Passenger Cars)

LAFAYETTE 1936 MODEL "3610" (90389)
3¼"x4⅜"—6 Cylinder
A-18272 AX-2 Carburetor

Std Part No	Special Parts Used on Above Model Car	
P-17004	P-17004	057 Metering Jet
P-18366	P-19374	Pump Link Cotter Pin
P-21944	P-21944	No 64 Pump Discharge Nozzle
P-21960	P-22020	Pump Stem Spring
P-21962	P-21778	Idle Tube with No 70 Feed Hole

NOTE Pump Capacity 10 to 14 CC (Fast) 12 to 16 CC (Slow) with Middle Pump Adjustment (10 Strokes) 12 to 16 CC (Fast) and 22 to 26 CC (Slow) with Maximum Pump Adjustment (10 Strokes)

NOTE Economizer Setting $\frac{5}{16}$" Drill

REPLACEMENT EQUIPMENT

PARTS AND SETTINGS EXCEPTIONS MODEL AX-2 STANDARD CARBURETOR

CHEVROLET 1932-36 ALL MODELS
3$\frac{5}{16}$"x3½"—4, 6 Cylinder Engine
A-18412 AX-2 Carburetor, (Code No 14-10)

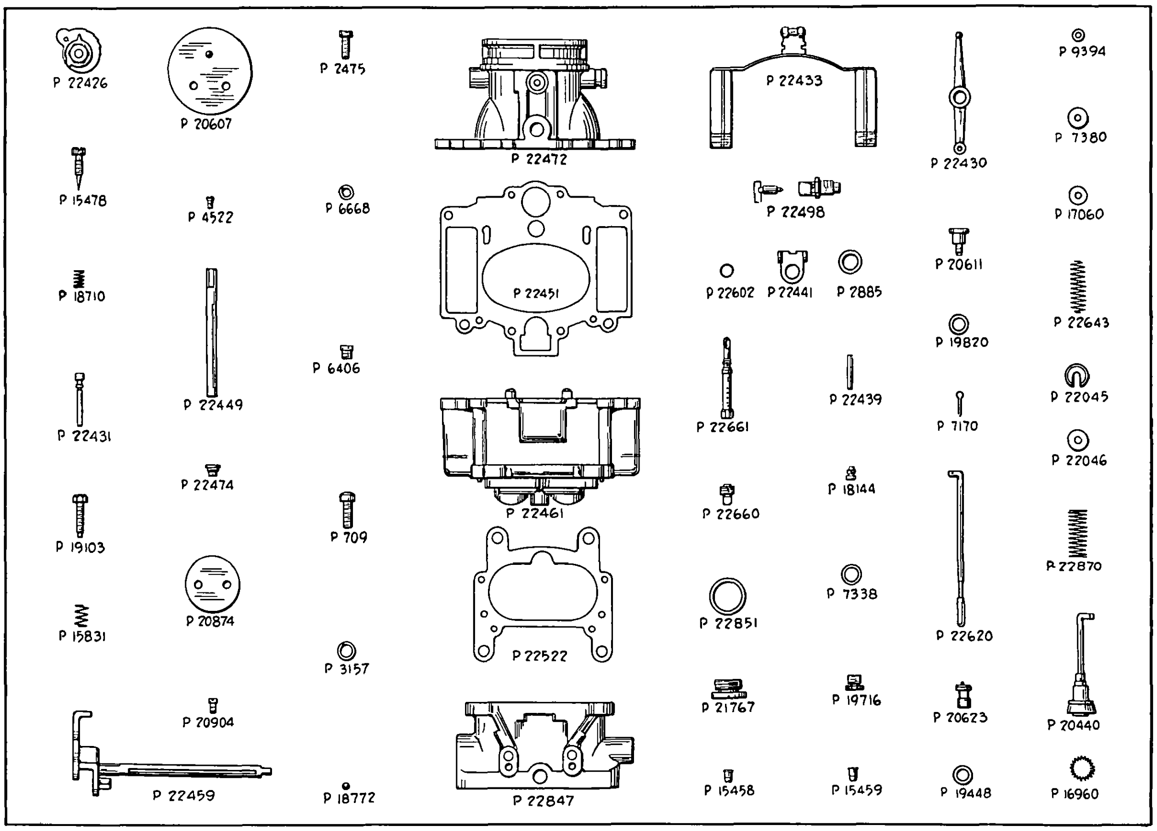
Std Part No	Special Parts Used on Above Model Car	
P-21764	P-22635	Throttle Body No 56-60 Idle Holes, No 50 Vac Sp Hole to be flush with upper edge of closed Throttle Valve
P-21766	P-22649	Main Discharge Jet No 32
P-21722-A	P-22650-A	Main Body 1⅛ Venturi No 70 H S Bleeder No 53 Idle Air Bleed
P-21781	P-22636	Throttle Lever and Stem Assy
P-21944	P-21944	No 64 Pump Discharge Nozzle
P-21960	P-22020	Pump Stem Spring
P-21962	P-21778	Idle Tube and Holder Assy No 70 Feed Hole
None Shown	P-8641	Gas Elbow Union

EQUIPMENT

P-4752 Flange Gasket

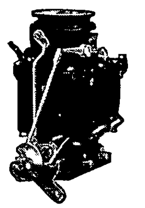
NOTE Pump Capacity 10 to 14 CC Fast and 12 to 16 CC Slow per 10 strokes with minimum pump adjustment 12 to 16 CC Fast and 22 to 26 CC Slow with maximum pump adjustment

NOTE Pump Travel Setting Maximum



AA-1 N . A-18361

1" DUAL CARB



Notes and References
Car models having this carburetor with parts exceptions are shown on back of this page

†These parts not illustrated

‡Indicates Sub Assembly par

PARTS LIST STROMBERG MODEL AA-1 CARBURETOR (as used on Buick Model 40-1937)

Part No	Name	
P-709	Main Body Attaching Screw (¼ 20)	
P-2475	Air Horn Attaching Screw	
P-2885	Float Needle Valve Seat Gasket	
P-3157	Main Body Attaching Screw Lockwasher	
P-4522	Choke Valve Screw (No 6-32)	
P-6406	Float Level Sight Plug ($\frac{5}{16}$ 24)	
P 6668	Air Horn Attaching Screw Lockwasher	
P-7170	Pump Rod and Pump Link Cotter Pin	
P 7338	Check Valve Plug Gasket	
P-9394	Pump Rod Washer	
P-15458	Idle Discharge Drive Plug (No 10)	
P-15459	Idle Discharge Drilling Hole Plug	
P-15478	Idle Needle Valve	
P-15831	Idle Adjustment Screw Spring	
P 17060	Pump Piston Washer	
P-17380	Pump Piston Felt Packing	
P-18144	Pump Check Valve Assy	
P-18710	Idle Needle Valve Spring	
P-18772	Air Horn Lead Ball	
P-18772	Throttle Body Lead Ball	
P-19103	Idle Adjustment Screw	
P-19448	By Pass Jet Gasket	
P-19716	Check Valve Plug	
P-19820	Pump Lever Fulcrum Screw Spring Washer	
P-20440	Pump Piston and Link Assy	
‡P-16960	Pump Piston Leather Expansion Spring	
P 20607	Choke Valve and Pin Assy	
P 20611	Pump Lever Fulcrum Screw	
P-20623	By Pass Jet Assy	
*P-20874	Throttle Valve	(VAR)
P-20904	Throttle Valve Screw	
P-21767	Main Discharge Jet Plug	••
P-22045	Pump Piston Cup Washer	
P 22046	Pump Piston Spring Retainer Washer	

Part No	Name	
P-22426	Thermostat Fast Idle Assy	
‡P-4729	Cam Fulcrum Nut	
‡P-20425	Cam Fulcrum Pin	
‡P-20426	Thermostat	
‡P 22423	Bushings and Stop Pointer Assy	
‡P-22425	Cam and Housing Assy	
P-22430	Pump Lever	
P-22431	Idle Tube and Holder Assy	
P-22433	Float and Lever Assy	
P 22439	Float Fulcrum Pin	
P-22441	Float Hanger	
P-22449	Choke Stem	
†P-22450	Air Horn and Valve Assy	
P-22451	Air Horn Gasket	
P 22459	Throttle Lever and Stem Assy	
*P 22461	Main Body Assy	(VAR)
‡P 8495	Expansion Plug	
‡P-18772	Lead Ball	
‡P-19430	Pump Discharge Tube Wedge	
‡P-22508	Pump Discharge Tube—Right	
‡P-22509	Pump Discharge Tube—Left	
P-22472	Air Horn	
P-22474	Choke Stem Bushing	
P-22498	Float Needle Valve and Seat Assy	
‡P 22523	Float Needle Valve Clip	
P-22522	Main Body Gasket	
P-22602	Main Discharge Jet Lead Gasket	
P 22620	Pump Rod Assy	
P-22643	Pump Piston Packing Retainer Spring	
*P-22660	Main Metering Jet	(VAR)
P-22661	Main Discharget Jet	
*P-22847	Throttle Valve Body	(VAR)
P-22851	Main Discharge Jet Plug Gasket	
P-22870	Pump Piston Follow Up Spring	
†P-22871	Pump Piston Link and Spring Assy	

J-4781-G AA 1 Complete Gasket Set

STANDARD SPECIFICATIONS

BUICK MODEL "40"—1937 (1298605)
3-3/32" x 4⅛"—8 Cyl.
A-18361 AA-1 Carburetor (Code No. 7-12)

Part No.	Part Name
P-20623	By Pass Jet 1 No 66 Hole
P-20874	5° Throttle Valve
P-22431	Idle Tube No 55 Lower Hole No 70 Bleed Hole
P-22461	Main Body 1-1/32" Venturi, No 70 H S Bleeder No 65 P D Tubes
P-22660	049' Metering Jet
P-22661	Main Discharge Jet No 28—36
P-22847	Throttle Body 56-60 Idle Holes No 58 Idle Air Bleed, No 58 Vac Spark Hole 041" Plus or Minus 004' above closed throttle valve

STANDARD SETTINGS FOR AA-1 CARBURETOR

Throttle Valve Location Upper lip of Throttle Valve to be 022" plus or minus 004' below lower edge of upper idle hole

Pump Capacity 10 to 14 CC (Fast), and 22 to 28 CC (Slow) per 10 strokes at maximum pump adj

Economizer Setting Pump Piston to rest on seat of By Pass Jet (less over travel) with Throttle Valve cracked open with a 9/64" drill plus or minus 1/64"

Pump Travel Setting Maximum

Fuel Level ⅝' below the top surface of the float chamber at 3 pounds pressure which corresponds to the bottom of the float level sight plug

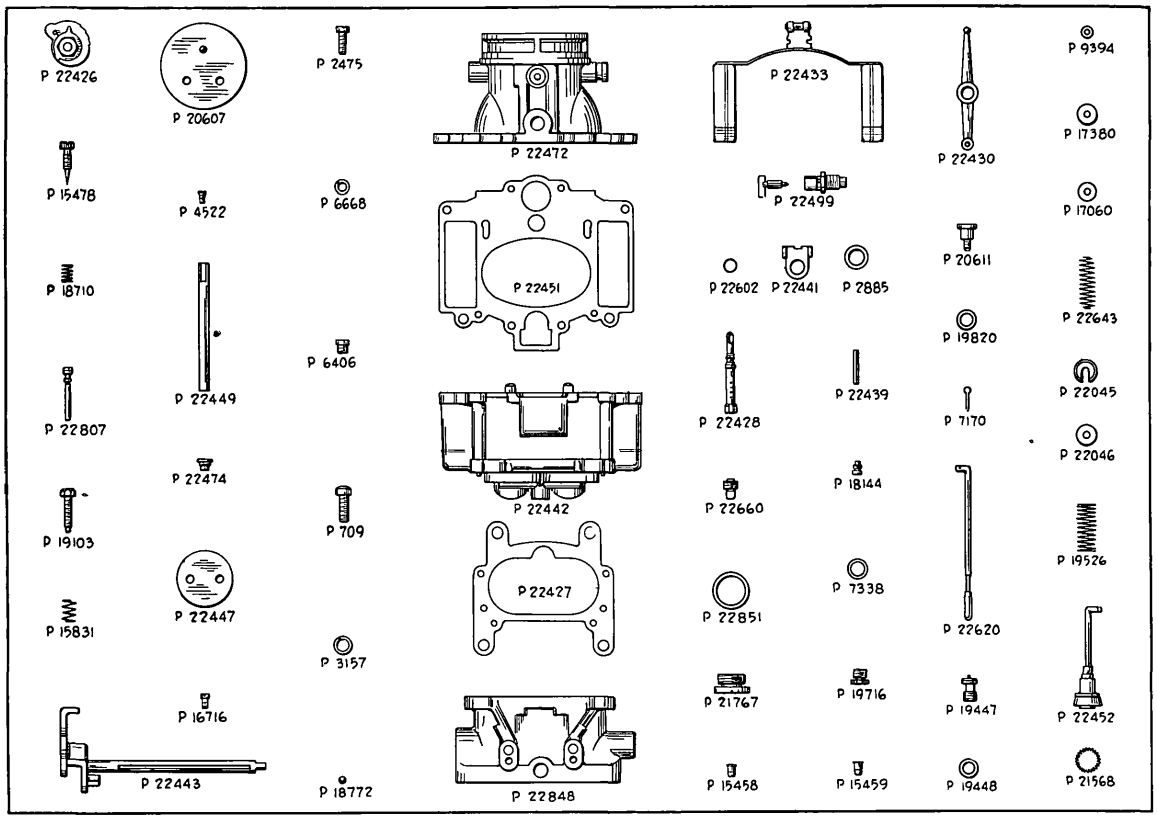
NOTE When resetting the position of floats service tool SER-292 should be used if the float tool is not available the distance between the top of the float and the gasket should be 1-13/32"

IMPORTANT Float level can be checked only when engine is running Do not start engine while carburetor cover is removed because a backfire from the manifold may cause a serious fire

SPECIFICATIONS OF STANDARD EQUIPPED PASSENGER CAR PARTS AND SETTINGS EXCEPTIONS MODEL AA-1 STANDARD CARBURETOR

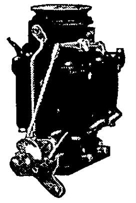
BUICK MODEL "40"—1937 (1299483)
(With Heavy Duty Air Cleaner)
3-3/32" x 4⅛"—8 Cyl
A-18451 AA-1 Carburetor (Code No 7-14)

Std. Part No	Special Part No	Used on Above Model Car
P-20623	P-21020	By Pass Jet 1 No 70 Hole
P-22660	P-22660	049' Metering Jet



AA-2, N . A-18362

1¼" DUAL CARB



Notes and References

Car models having this carburetor with parts exceptions are shown on back of this page

†These parts not illustrated

‡Indicates Sub-Assembly part

PARTS LIST STROMBERG MODEL AA-2 CARBURETOR (As Used on Buick Models 60, 8̄0, 80, 1937)

Part No	Name	
P-709	Main Body Attaching Screw (¼′ 20)	
P-2475	Air Horn Attaching Screw	
P-2885	Float Needle Valve Seat Gasket	
P-3157	Main Body Attaching Screw Lockwasher	
P-4522	Choke Valve Screw (No 6-32)	
P-6406	Float Level Sight Plug (5/16′-24)	
P-6668	Air Horn Attaching Screw Lockwasher	
P-7170	Pump Rod and Pump Link Cotter Pin	
P-7338	Check Valve Plug Gasket	
P-9394	Pump Rod Washer	
P-15458	Idle Discharge Drive Plug (No 10)	
P-15459	Idle Discharge Drilling Hole Plug (5/16)	
P-15478	Idle Needle Valve	
P-15831	Idle Adjustment Screw Spring	
P-16716	Throttle Valve Screw (No 6-32)	
P-17060	Pump Piston Felt Retaining Washer)	
P-17380	Pump Piston Felt Packing	
P-18144	Pump Check Valve Assy	
P-18710	Idle Needle Valve Spring	
P-18772	Throttle Body Lead Ball	
P-18772	Air Horn Lead Ball	
P-19103	Idle Adjustment Screw (No 10-32)	
*P-19447	By-Pass Jet Assy	(VAR)
P-19448	By-Pass Jet Gasket	
P-19526	Pump Piston Follow Up Spring	
P-19716	Check Valve Plug	
P-19820	Pump Lever Fulcrum Screw Spring Washer	
P-20607	Choke Valve and Pin Assy	
P-20611	Pump Lever Fulcrum Screw	
P-21767	Main Discharge Jet Plug (¾′-24)	
P-22045	Pump Piston Cup Washer	
P-22046	Pump Piston Spring Retainer Washer	
P-22426	Thermostat Fast Idle Assy	
‡P-4729	Cam Fulcrum Nut	

Part No	Part Name	
‡P-20425	Cam Fulcrum Pin	
‡P-20426	Thermostat	
‡P-22423	Bushing and Stop Pointer Assy	
‡P-22425	Cam and Housing Assy	
P-22427	Main Body Gasket	
P-22428	Main Discharge Jet	
†P-22429	Pump Piston Link and Spring Assy	
P-22430	Pump Lever	
P-22433	Float and Lever Assy	
P-22439	Float Fulcrum Pin	
P-22441	Float Hanger	
*P-22442	Main Body Assy	(VAR)
‡P-8495	Expansion Plug	
‡P-18772	Lead Ball	
‡P-19430	Pump Discharge Tube Wedge	
‡P-21561	Pump Discharge Tube	
P-22443	Throttle Lever and Stem	
*P-22447	Throttle Valve	(VAR)
P-22449	Choke Stem	
†P-22450	Air Horn and Valve Assy	
P-22451	Air Horn Gasket	
P-22452	Pump Piston and Link Assy	
‡P-21568	Pump Piston Expansion Spring	
P-22472	Air Horn	
P-22474	Choke Stem Bushing	
P 22499	Float Needle Valve and Seat Assy	
‡P-22523	Float Needle Valve Clip	
P-22602	Main Discharge Jet Lead Gasket	
P 22620	Pump Rod Assy	
P-22643	Pump Piston Packing Retainer Spring	
*P-22660	Main Metering Jet	(VAR)
P-22807	Idle Tube with Holder Assy	
*P-22848	Throttle Body	(VAR)
P-22851	Main Discharge Jet Plug Gasket	

J 4782-G AA-2 Complete Gasket Set

STANDARD SPECIFICATIONS

BUICK MODELS "60, 80, 90" 1937 (1298607)

A-18362 AA-2 Carburetor (Code No. 7-13-A)

P-19447	By-Pass Jet Assy., 1 No. 63 Hole
P-22428	Main Discharge Jet, No 28-32
P-22442	Main Body Assy, $1\frac{3}{16}$" Venturi, No 64 H S Bleeder, No 65 P D Tubes
P-22447	Throttle Valve, 5°
P-22660	052" Metering Jet
P-22807	Idle Tube No 55 Feed Hole, No 70 Bleed Hole
P-22848	Throttle Body, No 56-56 Idle Holes, No 54 Idle Air Bleed No 64 Vac Sp Hole, 085" plus or minus 004" above closed throttle valve

STANDARD SETTINGS FOR AA-2 CARBURETORS

Throttle Valve Location Upper lip of Throttle Valve to be 022" plus or minus 004" below lower edge of upper idle holes

Pump Capacity 13 to 17 CC Fast, 28 to 32 CC Slow, per 10 strokes in maximum adjustment

Fuel Level ⅞" below the top surface of the float chamber at 3 pounds pressure, which corresponds to the bottom of the float level sight plug

NOTE When resetting the position of floats, Service Tool SER-292 should be used, if the float tool is not available the distance between the top of the float and the gasket should be 1-13/32"

IMPORTANT Float level can be checked only when engine is running Do not start engine while carburetor cover is removed because a backfire from the manifold may cause a serious fire

Economizer Setting Pump Piston to rest on seat of By-Pass Jet (Less over travel), with Throttle Valve cracked open with 13/64" Drill, plus or minus 1/64" (Maximum pump travel—end hole in pump lever)

Pump Travel Setting Maximum

SPECIFICATIONS OF STANDARD EQUIPPED PASSENGER CAR PARTS AND SETTINGS EXCEPTIONS, MODEL AA-2 STANDARD CARBURETOR

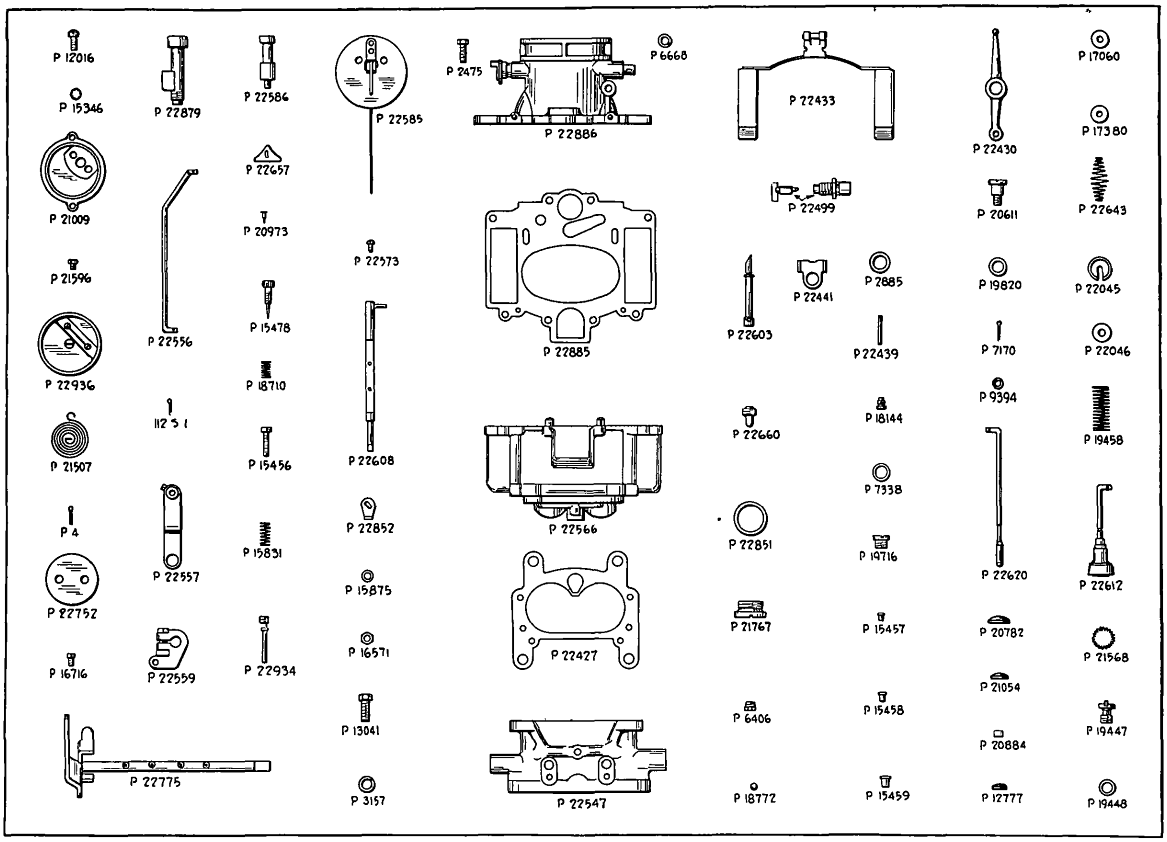
BUICK MODELS "60, 80, 90" 1937 (1299484)

(With Heavy Duty Air Cleaner)

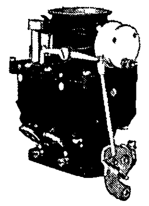
$3\frac{7}{16}$" x $4\frac{5}{16}$"—8 Cyl.

A-18452 AA-2 Carburetor (Code No. 7-15)

Std. Part No.	Special Part No. Used on Above Car	
P-22660	P-22660	051" Metering Jet



AA-25
N . A-18352
1¼" DUAL CARB



Notes and References
Car models having this carburetor with parts exceptions **are** shown on back of this page

†These parts not illustrated

‡Indicates Sub-Assembly part

PARTS LIST STROMBERG MODEL AA-25 CARBURETOR
(As used on Cadillac Models 60, 65, 70, 75-1937 and LaSalle Model 50-1937)

Part No	Name	
112-S-1	Deflooder Rod Cotter Pin	
P-4	Thermostat Stem Cotter Pin	
P-2475	Air Horn Attaching Screw (No 10-24)	
P-2885	Float Needle Valve Seat Gasket	
P-3157	Main Body Attaching Screw Lockwasher	
P-6406	Float Level Sight Plug	
P-6668	Air Horn Attaching Screw Lockwasher	
P-7170	Pump Link and Pump Rod Cotter Pin	
P-7338	Check Valve Plug Gasket	
P-9394	Pump Rod Washer	
P-12016	Thermostat Housing Attaching Screw (No 10-32)	
P-12777	Vent Tube Boss Welch Plug	
P-13041	Main Body Attaching Screw	
P-15346	Thermostat Housing Attaching Screw Lockwasher	
P-15456	Idle Adjustment Screw	
P-15457	Vacuum Piston Channel Drive Plug (No 6)	
P-15458	Idle Discharge Drive Plug (No 10)	
P-15459	Idle Discharge Drilling Hole Drive Plug (¼)	
P-15478	Idle Needle Valve	
P-15831	Idle Adjustment Screw Spring	
P-15875	Thermostat Lever Attaching Nut Lockwasher	
P-16571	Thermostat Lever Attaching Nut	
P-16716	Throttle Valve Screw (No 6-32)	
P-17060	Pump Link Splash Washer	
P-17380	Pump Link Felt Washer	
P-18144	Pump Check Valve Assy	
P-18710	Idle Needle Valve Spring	
P-18772	Throttle Valve Body Lead Ball	
P-19447	By Pass Jet	
P-19448	By Pass Jet Gasket	
P-19458	Pump Piston Follow-up Spring	
P-19716	Check Valve Plug	
P-19820	Pump Lever Fulcrum Screw Spring Washer	
P-20611	Pump Lever Fulcrum Screw	
P-20782	Vacuum Piston Expansion Plug	
P-20884	Vacuum Piston Channel Plug (¼)	
P-20973	Vacuum Piston Rivet	
P-21009	Thermostat Unit Housing	
P-21054	Vacuum Piston Channel Expansion Plug	
P-21507	Thermostat	
P-21596	Thermostat Unit Attaching Screw (No 6-32)	
P-21767	Main Discharge Jet Plug (¾ -24)	
P-22045	Pump Piston Spring Retainer Washer	
P-22046	Pump Piston Washer	
P-22427	Main Body Gasket	
P-22430	Pump Lever	
P-22433	Float with Lever Assy	
P-22439	Float Fulcrum Pin	
P-22441	Float Hanger	
P-22499	Float Needle Valve and Seat Assy	
‡P-22523	Float Needle Valve Clip	
*P-22547	Throttle Body	(VAR)
P-22556	Deflooder Rod	
P-22557	Loose Throttle Lever Assy	
‡P-506	Wire Clamp Screw (No 6-32)	
P-22559	Loose Lever Stop Assy	
‡P-18299	Clamp Screw Nut	
‡P-18300	Stop Clamp Screw (No 10-24)	
*P-22566	Main Body Assy	(VAR)
‡P-8495	Expansion Plug	
‡P-18772	Lead Ball	
‡P-19430	Pump Discharge Tube Wedge	
‡P-22651	Pump Discharge Tube—Left	
‡P-22652	Pump Discharge Tube—Right	
P-22573	Choke Valve Screw (No 6-32)	
P-22585	Choke Valve and Link Assy	
‡P-22553	Fast Idle Piston Link	
‡P-22579	Fast Idle Link Fulcrum Pin	
P-22586	Vacuum Piston	
P-22603	Main Discharge Jet	
P-22608	Choke Stem and Pin Assy	
P-22612	Pump Piston and Link Assy	
‡P-21568	Pump Piston Leather Expansion Spring	
P-22620	Pump Rod Assy	
P-22643	Pump Piston Packing Retainer Spring	
†P-22646	Pump Piston Link and Spring Assy	
P-22657	Vacuum Piston Link Channel Cover	
*P-22660	Main Metering Jet	(VAR)
*P-22752	Throttle Valve	(VAR)
P-22775	Throttle Lever and Stem Assy	
P-22851	Main Discharge Jet Plug Gasket	
P-22852	Thermostat Lever	
P-22879	Vent Stack Assy	
P-22885	Air Horn Gasket	
P-22886	Air Horn Assy	
‡P-17996	Loose Lever Bushing	
‡P-21045	Choke Stem Bushing	
‡P-22550	Loose Lever	
†P-22903	Air Horn and Valve Assy	
P-22934	Idle Tube Assy	
†P-22935	Thermostat Unit Assy Complete	
P-22936	Thermostat Unit Assy	
‡76-S-42	Binding Post Nut Lockwasher	
‡P-9284	Binding Post Locknut	
‡P-21028	Thermostat Housing	
‡P-21030	Cable Attaching Nut	
‡P-21031	Heating Coil Washer	
‡P-21032	Binding Post Washer	
‡P-21033	Insulation Washer	
‡P-22933	Heating Coil	
‡P-21037	Binding Post Washer (Bakelite)	
‡P-21055	Heating Coil Attaching Screw	
‡P-21514	Heating Element Insulator Assy	

J-4783-G AA-25 Complete Gasket Set

STANDARD SPECIFICATIONS

CADILLAC MODELS "60, 65, 70, 75" 1937 (1419627)
AND LASALLE MODEL "50" 1937
3⅜"-3½" x 4—8 Cyl.
A-18352 AA-25 Carburetor (Code No. 205-1)

P-19447	No 63 By Pass Jet
P-22547	Throttle Body with No 54-55 Idle Holes, No 40 Idle Air Bleeder
P-22566	Main Body with 1⅛" Venturi No 65 H S Bleeder, No 65 P D Tubes
P-22603	No 28-36 Main Discharge Jet
P-22660	052" Metering Jet
P-22752	5° Throttle Valve
P-22932	Idle Tube

STANDARD SETTINGS FOR AA-25 CARBURETORS

Throttle Valve Location Upper lip of Throttle Valve to be 022' plus or minus 004' below lower edge of upper idle hole

Pump Capacity 18 to 22 CC Fast or Slow per 10 strokes with minimum adjustment 26 to 30 CC Fast or Slow per 10 strokes with maximum adjustment

Pump Travel Setting Minimum

Fuel Level ⅝" below the top surface of the float chamber at 3 pounds pressure which corresponds to the bottom of the float level sight plug

NOTE When resetting the position of floats, Service tool SER-292 should be used, if the float tool is not available the distance between the top of the float and the gasket should be 1-13/32"

IMPORTANT Float level can be checked only when engine is running Do not start engine while carburetor cover is removed because a backfire from the manifold may cause a serious fire

NOTE If it is necessary to remove the air horn remove the choke valve screws so that valve, link, and vacuum piston remain intact

Economizer Setting Pump piston to rest on seat of by pass jet (less over travel), with throttle valve cracked open with 21/64' drill plus or minus 1/64" (Maximum pump travel—end hole in pump lever)

Thermostat At 70° F (See Note) Stamp "0" on housing in line with center line of thermostat hook (using 3/32 drill as pin gauge)

Thermostat Setting Turn thermostat housing 17 notches rich from pointer on air horn (Prick punch position)

NOTE In determining 70° F thermostat setting ('0" Stamping) if temperature in room is below 70° F, turn housing in rich direction 1 notch for each 5° and if above 70° F turn housing in lean direction 1 notch for each 5° (Allow thermostat to cool or warm so as to be of same temperature of room)

Wide Open Throttle Choke Kick To be 30° plus or minus 1° with throttle valve in wide open position choke valve opening gauged 203-218" at short side of Valve

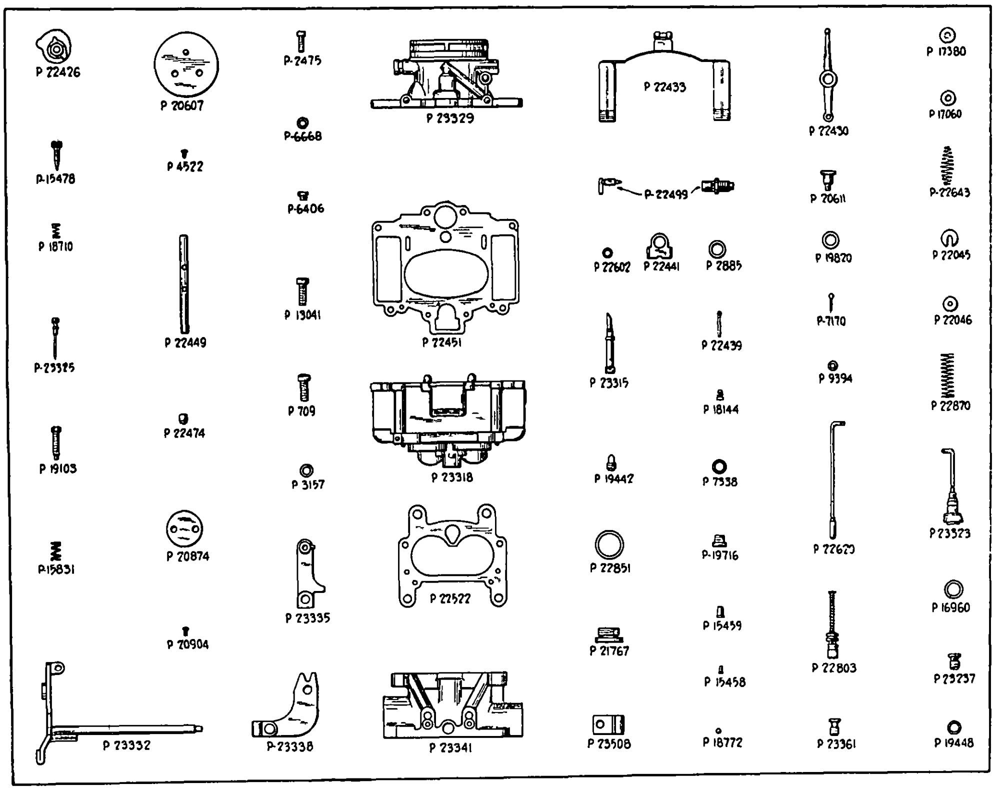
PARTS AND SETTINGS EXCEPTIONS MODEL AA-25 CARBURETOR
(As used on Cadillac Models 60, 65, 70, 75-1937 and LaSalle Model 50-1937)

CORD MODEL "812" SUPERCHARGED—1937
3½" x 4¾"—8 Cylinder Lycoming FC Engine
A-18492 AA-25 Carburetor (Code No 102-4)

Std Part No	Special Parts	Used on Above Model
P-15456	P-18288	Idle Adj Screw
P-19447	P-22898	By Pass Jet, 2 No 55 Holes
P-22499	P-22918	Float Needle Valve and Seat
P-22547	P-22896	Throttle Body No 54-55 Idle Holes, No 40 Idle Air Bleeder
P-22557	P-22891	Throttle Lever Assy
P-22566	P-22902	Main Body 1⅛" Venturi, No 70 H S Bleeder No 60 P D Tubes
P-22651	P-22900	Pump Discharge Tube—Left
P-22652	P-22901	Pump Discharge Tube—Right
P-22660	P-22660	058" Metering Jet
P-22775	P-22893	Thro Stem and Pump Lever Assy
P-22885	P-22451	Air Horn Gasket
P-22886	P-22548-A	Air Horn Assy
P-22903	P-22576	Air Horn and Valve Assy
None Shown	P-1791	Throttle Lever Nut
None Shown	P-2290	Throttle Lever Nut Lockwashers

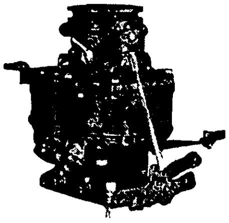
NOTE Throttle Valve Location Upper lip of throttle valve to be 040' plus or minus 004" below lower edge of upper idle hole

NOTE Thermostat Setting Turn thermostat housing 15 notches rich from pointer on air horn (Prick punch position)



AAV-1
NO. A-18681
1" CARB. SAE

AAV-2
NO. A-18682
1¼" CARB. SAE



Notes and References.
Car models having this carburetor with parts exceptions therefor are shown on back of this page

†These parts not illustrated

‡Indicates Sub-assembly part

PARTS LIST STROMBERG MODELS AAV-1 AND AAV-2 CARBURETORS
(AAV-1 for Buick 1938 Model 40) (AAV-2 for Buick 1938 Models 60, 80 and 90)

AAV-1 Part No.	AAV-2 Part No.	Part Name	
P-709	P-709	Screw—Main Body Attaching	
P-2475	P-2475	Screw—Air Horn Attaching	
P-2885	P-2885	Gasket—Float Needle Valve Seat	
P-3157	P-3157	Lockwasher—M B Attaching Screw	
P-4522	P-4522	Screw—Choke Valve	
P-6406	P-6406	Plug—Float Level Sight	
P-6668	P-6668	Lockwasher—Air Horn Attaching Screw	
P-7170	P-7170	Cotter Pin—Pump Rod and Pump Link	
P-7338	P-7338	Gasket—Check Valve Plug	
P-9394	P-9394	Washer—Pump Rod	
P-13041	P-13041	Screw—Main Body Attaching	
P-15458	P-15458	Plug—Idle Discharge	
P-15459	P-15459	Plug—Idle Discharge	
P-15478	P-15478	Valve—Idle Needle	
P-15831	P-15831	Spring—Odle Adj Screw	
P-17060	P-17060	Washer	
P-17380	P-17380	Packing—Felt	
P-18144	P-18144	Pump Check Valve Assy	
P-18710	P-18710	Spring—Idle Needle Valve	
P-18772	P-18772	Ball—Lead—Throttle Body and Air Horn	
P-19103	P-19103	Screw—Idle Adj	
*P-19442	*P-19442	Jet—Metering	(VAR)
P-19448	P-19448	Gasket—Econ and Pump By-Pass Jet	
P-19716	P-19716	Plug—Choke Valve	
P-19820	P-19820	Spring Washer—Pump Lever Fulcrum Screw	
P-20607	P-20607	Choke Valve and Pin Assy	
P-20611	P-20611	Screw—Fulcrum	
*P-20874	*P-22447	Valve—Throttle	(VAR)
P-20904	P-16716	Screw—Throttle Valve	
P-21767	P-21767	Plug—Main Discharge Jet	
P-22045	P-22045	Washer—Cup	
P-22046	P-22046	Washer—Spring Retainer	
P-22426	P-22426	Thermostat Fast Idle Assy	
‡P-4729	‡P-4729	Nut—Fulcrum	
‡P-20425	‡P-20425	Pin—Fulcrum	
‡P-20426	‡P-20426	Thermostat	
‡P-22423	‡P-22423	Bushing and Stop Pointer Assy	
‡P-22425	‡P-22425	Cam and Housing Assy	
P-22430	P-22430	Lever—Pump (Superseded by P-23735)	
P-22433	P-22433	Float with Lever Assy	
P-22439	P-22439	Pin—Fulcrum	
P-22441	P-22441	Hanger—Float	
P-22449	P-22449	Stem—Choke	
P-22451	P-22451	Gasket—Air Horn	
P-22474	P-22474	Bearing—Choke Stem	
P-22499	P-22499	Float Needle Valve and Seat	
‡P-22523	‡P-22523	Float Needle Valve Clip	
P-22522	P-22427	Gasket—Main Body	
P-22602	P-22602	Gasket—Lead—Main Discharge Jet	
P-22620	P-22620	Pump Rod Assy	
P-22643	P-22643	Spring—Packing Retainer	
P-22803	P-22803	Vacuum Economizer Assy	
P-22851	P-22851	Gasket—Main Disch Jet Plug	
P-22870	P-19526	Spring—Follow up	
*P-23237	*P-23237	Pump By-Pass Jet Assembly (Superseded by P-23742)	(VAR.)
*P-23315	*P-23315	Main Discharge Jet	(VAR.)
*P-23318	*P-23342	Main Body Assy	(VAR)
‡P-8495	‡P-8495	Plug—Expansion	
‡P-18772	‡P-18772	Ball—Lead	
‡P-19430	‡P-19430	Wedge—Pump Disch Tube	
‡P-23245	‡P-23245	Tube—Pump Disch (right)	
‡P-23246	‡P-23246	Tube—Pump Disch (left)	
†P-23322	†P-23349	Pump Piston Link & Spring Assy	
P-23323	P-23350	Pump Piston and Link Assy	
‡P-16960	‡P-21568	Spring—Pump Piston Leather Expansion	
P-23325	P-23325	Idle Tube with Holder	
†P-23328	P-23328	Air Horn and Valve Assy	
P-23329	P-23329	Air Horn	
P-23332	P-23353	Throttle Lever and Stem Assy	
P-23335	P-23433	Loose Lever Assy	
†P-506	‡P-506	Screw—Wire Clamp	
†P-12601	‡P-12601	Connector—Wire	
P-23338	P-23338	Throttle Loose Lever Tube Holder Assy	
‡P-2229	†P-2229	Screw—Tube Clamp	
†P-2290	‡P-2290	Nut—Tube Clamp Screw	
†P-15875	‡P-15875	Lockwasher—Tube Clamp Screw	
*P-23341	*P-23360	Throttle Body Assy	(VAR)
*P-23361	P-23348	Econ By-Pass Jet Assy	(VAR.)
P-23508	P-23508	Clip—Spring	

J-5317-G Complete gasket set for Buick AAV-1
J-5321-G Complete gasket set for Buick AAV-2

*NOTE On parts marked (VAR) size must be specified when ordering

STANDARD SPECIFICATIONS

BUICK MODEL "40" (1304646)

$3\text{-}3/32"\times4\frac{1}{8}"$—8-Cylinders

A-18681 AAV-1 Carburetor (Code No. 7-17A)

Part No.	Part Name
P-19442	048′ Metering Jet
P-20874	5° Throttle Valve
P-23742	1-No 63 Pump By-Pass Assembly
P-23315	No 28 Main Discharge Jet
P-23318	Main Body—$1\frac{1}{32}$′ Venturi, No 65 H S Bleeder, No 70 Idle Air Bleed No 65 Pump Discharge Tube
P-23341	Throttle Valve Body—No 54-60 Idle Holes No 32 Idle Air Bleed, No 58 Vac Spark Hole
P-23361	1-No 62 Economizer—By-Pass Jet Assy

BUICK MODELS "60-80-90" (1304648)

$3\frac{7}{16}"\times4\frac{5}{16}"$—8-Cylinders

A-18682 AAV-2 Carburetor (Code No. 7-18A)

Part No.	Part Name
P-19442	052′ Metering Jet ...
P-22447	5° Throttle Valve
P-23742	1-No 63 Pump By-Pass Assembly
P-23315	No 28 Main Discharge Jet
P-23342	Main Body—$1\frac{1}{8}$′ Venturi, No 65 H S Bleeder, No 65 Pump Discharge Tubes, No 70 Idle Air Bleed
P-23348	1-No 57 Economizer By-Pass Jet
P-23360	Throttle Valve Body—No 54-60 Idle Holes, No 32 Idle Air Bleed, No 58 Vac Spark Hole

STANDARD SETTINGS FOR AAV-1 AND AAV-2 CARBURETORS

Throttle Valve Location Upper lip of throttle valve to be 022" plus or minus 004" below lower edge of upper idle holes

Pump Capacity 9-12 CC (Fast) 17-20 CC (Slow) Middle adjustment per 10 strokes AAV-1 15-18 CC (Fast) 21 24 CC (Slow) Middle adjustment per 10 strokes AAV-2

Fuel Level 19/32 below top surface of the float chamber at 3 lbs pressure

Pump Travel Set at middle adjustment

NOTE When resetting the position of floats, service tool T-24971 should be used, if the float tool is not available the distance between the top of the float and the gasket should be 1-11/32"

IMPORTANT Fuel level can be checked only when engine is running *Do not start engine while air horn is removed because a backfire* through the manifold may cause a serious fire

SPECIFICATIONS OF STANDARD EQUIPPED PASSENGER CARS
PARTS AND SETTINGS EXCEPTIONS AAV-1 AND AAV-2 STANDARD CARBURETORS

BUICK 1938 MODEL "40 (1304647)

$3\text{-}3/32\ \times4\frac{1}{8}$′—8-Cylinders

A-18691 AAV-1 Carburetor (Code No. 7-19A)

(With Heavy Duty Air Cleaner)

Std Part No	Special Parts Used on Above Model Cars	
P-19442	P-19442	046 Metering Jet
P-23361	P-23606	1-No 66 Economizer By-Pass Jet

J-5317-G Complete gasket set for Buick AAV-1

BUICK 1938 MODELS "60-80-90" (1304649)

3 7/16 x4-5/16 —8-Cylinders

A-18692 AAV 2 Carburetor (Code No 7-20A)

(With Heavy Duty Air Cleaner)

Std Part No	Special Parts Used on Above Model Cars	
P-19442	P-19442	050 Metering Jet

J-5321-G Complete gasket set for Buick AAV-2

CHRYSLER 1938 MODEL C-19 (685281)

$3\frac{1}{4}\ \times4\frac{1}{2}$ —8-Cylinders

A-18782 AAV-2 Carburetor (Code No 4-76C)

Std Part No	Special Parts Used on Above Model Cars	
P-709	P-22867	Screw—Main Body Attaching
P-19103	P-20424	Screw—Idle Adj
P-19442	P-22660	047 Metering Jet
P-20611	P-19433	Screws—Fulcrum
P-20904	P-16716	Attach Screw Throttle Body
P-22447	P-22752	5° Throttle Valve
P-22620	P-22787	Pump Rod Assembly
P-22449	P-22791	Choke Lever and Stem Assembly
P-23315	P-22795	No 36 Main Discharge Jet
P-23325	P-19424	Idle Tube with Holder
P-23328	P-22781	Air Horn and Valve Assembly
P-23329	P-22771-A	Air Horn
P-23342	P-23729	Assembly—Main Body—$1\frac{1}{32}$ Venturi No 70 H S Bleeder No 65 Pump Disch
P-23348	P-21657	1 No 56 Economizer By Pass Jet
P-23349	P-23238	Assembly—Pump Piston Link & Spring
P-23350	P-23239	Assembly—Pump Piston and Link
P-23353	P-23656	Assembly—Throttle Lever and Stem
P-23360	P-23703	Assembly—Throttle Body—No 54-60 Idle Holes
P-23508	P-22934	Spring Clip—Throttle Lever
None Shown	112-S-1	Cotter Pin—Fast Idle Rod
None Shown	P-16161	Set Screw—Choke Stem Collar
None Shown	P-17081	Collar—Choke Stem
None Shown	P-19314	Screw—Drive Away Stop
None Shown	P-20744	Washer—Fast Idle Cam
None Shown	P-20745	Screw—Fulcrum—Fast Idle Cam
None Shown	P-22792	Cam—Fast Idle
None Shown	P-22794	Assembly—Fast Idle Cam Lever

J-5316-G Complete gasket set for Chrysler AAV-2

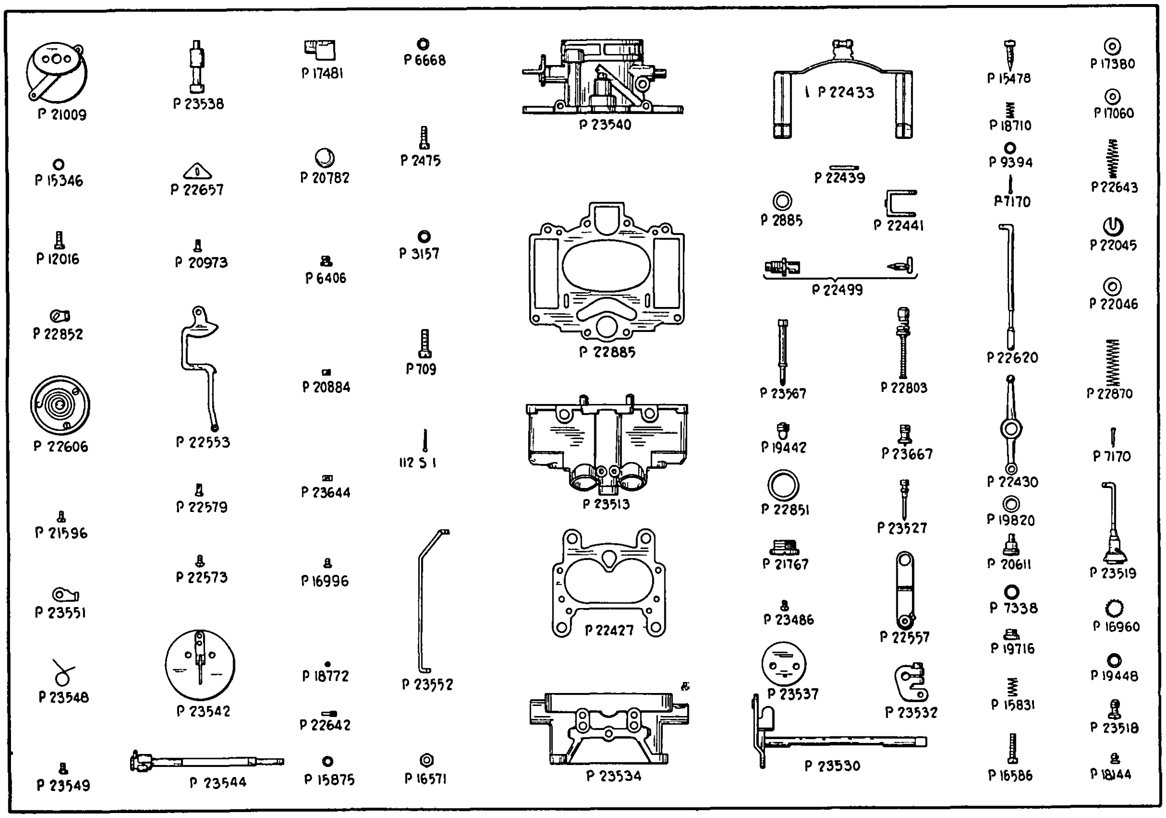
CHRYSLER 1938 MODEL "C-20" (685282)

$3\frac{1}{4}$′ x$4\frac{7}{8}$"—8-Cylinders

A-18792 AAV-2 Carburetor (Code No 4-77A)

Std Part No	Special Part No Used on Above Model	
P-709	P-22867	Screw—Main Body Attaching
P-19103	P-20424	Screw—Idle Adj
P-19442	P-22660	047 Metering Jet
P-20611	P-19433	Fulcrum Screw
P-20904	P-16718	Attach Screw—Throttle Valve
P-22447	P-22752	5° Throttle Valve
P-22449	P-22787	Pump Rod Assembly
P-22620	P-22791	Choke Lever and Stem
P-23315	P-22795	No 36 Main Discharge Jet
P-23325	P-19424	Assembly Idle Tube with Holder
P-23328	P-22781	Assembly—Air Horn and Valve
P-23329	P-22771-A	Air Horn
P-23342	P-23751	Main Body—$1\frac{1}{8}$ Venturi No 70 H S Bleeder No 60 Pump Discharge
P-23348	P-21197	1-No 54 Econ By Pass Jet
P-23349	P-22857	Assembly—Pump Piston Link and Spring
P-23350	P-22858	Assembly—Pump Piston and Link
P-23353	P-23656	Assembly—Throttle Lever and Stem
P-23360	P-23703	Throttle Body—No 54-60 Idle Holes
None Shown	112-S-1	Cotter Pin—Fast Idle Rod
None Shown	P-16161	Set Screw—Choke Stem Collar
None Shown	P-17081	Collar—Choke Stem
None Shown	P-19314	Screw—Drive Away Stop
None Shown	P-19587	Nut—Fast Idle Rod Adj
None Shown	P-20744	Washer—Fast Idle Cam
None Shown	P-20745	Screw—Fulcrum—Fast Idle Cam
None Shown	P-22770	Gasket—Insulator—Main Body
None Shown	P 22792	Cam—Fast Idle
None Shown	P-22794	Assembly—Fast Idle Cam Lever

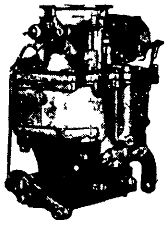
J-5316-G Complete gasket set for Chrysler AAV-2



AAV-25

NO. A-18672

1¼" CARB SAE



Notes and References

Car models having this carburetor with parts exceptions therefor are shown on back of this page

†These parts not illustrated

‡Indicates Sub-assembly part

PARTS LIST STROMBERG MODEL AAV-25 CARBURETOR (1938 CADILLAC)

Part No	Part Name	
112-S-1	Cotter Pin—Choke Release Rod	
P-4	Cotter Pin	
P-709	Screw—Main Body Attach	
P-2475	Screw—Air Horn Attach	
P-2885	Gasket—Float Needle Valve Seat	
P-3157	Lockwasher—M B Attach Screw	
P-6406	Plug—Float Level Sight	
P-6668	Lockwasher—Air Horn Attach	
P-7170	Cotter Pin—Pump Link and Pump Rod	
P-7338	Gasket—Check Valve Plug	
P-9394	Washer—Pump Rod	
P-12016	Screw—Thermostat Housing Attach	
P-12777	Plug—Vent Tube Boss	
P-15346	Lockwasher—Housing Attach	
P-15457	Plug—Vacuum Piston Channel No 6	
P-15458	Plug—Idle Discharge No 10	
P-15459	Plug—Idle Discharge Hole—¼	
P-15478	Valve—Idle Needle	
P-15831	Spring—Idle Adj Screw	
P-15875	Lockwasher—Thermostat Lever Att Nut	
P-16571	Nut—Thermostat Lever Att	
P-16586	Screw—Idle Adj	
P-16996	Plug—Fast Idle Channel No 8	
P-17060	Washer	
P-17380	Packing—Felt	
P-17481	Elbow—Gas Conn	
P-18144	Assembly—Pump Check Valve	
P-18710	Spring—Idle Needle Valve	
*P-19442	Metering Jet	(VAR)
P-19448	Gasket—By-Pass Jet	
P-19492	Plug—Gas Inlet	
P-19716	Plug—Check Valve	
P-19820	Spring Washer—Pump Lever Fulcrum Screw	
P-20611	Screw—Fulcrum	
P-20782	Plug—Expansion Vacuum Piston	
P-20884	Plub—Vacuum Piston Channel—¼"	
P-20973	Rivet—Vacuum Piston	
P-21009	Housing—Thermostat Unit	
P-21054	Plug—Expansion	
P-21596	Screw—Thermostat Unit Attaching	
P-21767	Plug—Main Discharge Jet	
P-22045	Washer—Spring Retainer	
P-22046	Washer	
P-22427	Gasket—Main Body	
P-22430	Lever—Pump	
P-22433	Assembly Float with Lever	
P-22439	Pin—Fulcrum	
P-22441	Hanger—Float	
P-22499	Float Needle Valve and Seat	
P-22553	Link—Fast Idle Piston	
P-22557	Assembly Throttle Lever Loose	
‡P-506	Screw—Wire Clamp	
P-22573	Screw—Choke Valve Attach	
P-22579	Pin—Fast Idle Link Fulcrum	
P-22604	Assembly—Thermostat Unit Complete	
‡P-22605	Assembly—Thermostat Unit	
‡76-S-42	Lockwasher—Binding Post Nut	
‡P-9284	Locknut—Binding Post	
‡P-21028	Housing—Thermostat	
‡P-21030	Nut—Cable Attaching	
‡P-21031	Washer—Heating Coil	
‡P-21032	Washer—Binding Post	
‡P-21033	Washer—Insulation	
‡P-21037	Washer—Binding Post (Bakelite)	
‡P-21055	Screw—Heating Coil Attach	
‡P-22606	Assembly -Heating Element	
‡P-22607	Thermostat	
P-22620	Assembly—Pump Rod	
P-22643	Spring—Facking Retainer	
P-22657	Cover—Vacuum Piston Link Channel	
P-22803	Assembly—Vacuum Economizer	
P 22851	Gasket—Main Disch Jet Plug	
P-22870	Spring—Follow Up	
P-22879	Assembly—Vent Stack	
P-22885	Gasket—Air Horn	
P-23486	Screw—Throttle Valve	
*P-23513	Assembly—Main Body	(VAR)
‡P-8495	Plug—Expansion	
‡P-18772	Ball—Lead	
‡P-19430	Wedge—Pump Discharge Tube	
‡P-23516	Tube—Pump Disch —Right	
‡P-23517	Tube—Pump Disch —Left	
*P-23518	Pump By-Pass Jet Assembly	(VAR)
P-23519	Assembly—Pump Piston Link and Spring	
‡P-16960	Spring—Pump Leather Expansion	
†P-23520	Assembly—Pump Piston and Link	
P-23527	Assembly—Idle Tube with Holder	
P-23530	Assembly—Throttle Lever and Stem	
P-23532	Assembly—Loose Lever Stop	
*P-23534	Assembly—Throttle Body	(VAR)
P 23537	Valve—Throttle	
P-23538	Piston—Vacuum	
†P-23539	Assembly—Air Horn and Valve	
P-23540	Assembly—Air Horn	
P-23542	Assembly—Choke Valve and Bracket	
P-23544	Assembly—Choke Stem and Pin	
P-23548	Spring—Choke Lock Lever	
P-23549	Screw—Choke Lock Lever	
P-23550	Bushing—Choke Lock Lever	
P-23551	Lever—Choke Lock	
P-23552	Rod—Choke Release	
*P-23567	Main Discharge Jet	(VAR)
P-23644	Plug—Fast Idle	
*P-23667	Economizer By-Pass Jet Assembly	(VAR)

J-5320-G Complete gasket set for AAV-25 Carb

*NOTE On parts marked (VAR) size must be specified when ordering

STANDARD SPECIFICATIONS

CADILLAC MODELS "50-60-65-70-75" 1938 (1425447)
3⅜"-3½"x4½"—8-Cylinders
A-18672 AAV-25 Carburetor (Code No. 205-2)

P-19442	Metering Jet— 050"
P-23513	Main Body Assembly—1⅛" Venturi, No 63 H S B, No 60 Idle Air Bleed, 2-No 70 Pump Discharge Tubes
P-23518	Assembly—Pump By-Pass Jet—2-No 63
P-23534	Assembly—Throttle Valve Body—No 54-58 Idle Discharge Holes, No 36 I A B
P-23567	Main Discharg Jet—No 32
P-23667	Economizer By-Pass Jet Assembly—1-No 52

STANDARD SETTINGS FOP AAV-25 CARBURETORS

Throttle Valve Location Upper lip of throttle valve to be 030" plus or minus 004" below lower edge of upper idle hole

Pump Capacity 18 to 22 CC (Fast and Slow) at minimum adjustment per 10 strokes

Pump Travel Setting Minimum

Fuel Level ⅝" below the top surface of the float chamber at 3 lbs pressure which corresponds to the bottom of the float sight plug

Thermostat Setting Turn thermostat housing 15 notches rich from pointer on air horn (Prick punch position)

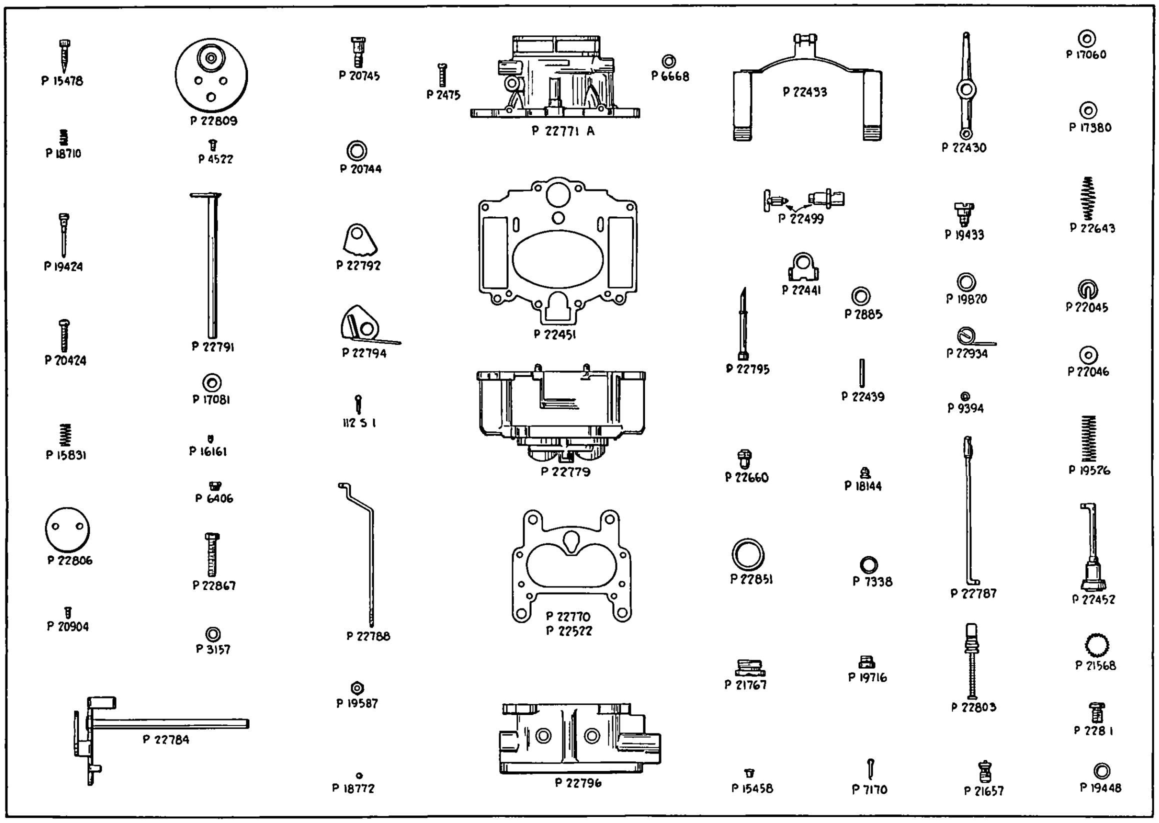
NOTE When resetting the position of floats, service tool T-24971 should be used, if the float tool is not available the distance between the top of the float and the gasket should be 1-11/32".

IMPORTANT Float level can be checked only when engine is running Do not start engine while air horn is removed because a backfire from the manifold may cause a serious fire

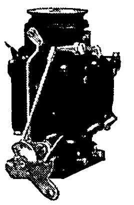
SPECIFICATIONS OF STANDARD EQUIPPED VEHICLES
PARTS AND SETTINGS EXCEPTIONS AAV-25 STANDARD CARBURETORS

WHITE 1938 MODEL "20-A" (324272)
3⅞"x5⅛"—6-Cylinder
A-18812 AAV-25 Carburetor (Code No 29-24)

Std. Part No.	Special Parts Used on Above Models	
P-16586	P-18288	Screw—Idle Adj No 10-32
P-19442	P-22660	Metering Jet— 057"
P-22430	P-22894	Pump Rod Lever
P-23518	P-23742	Assembly—Pump By-Pass Jet
P-23519	P-23322	Assembly—Pump Piston Link & Spring
P-23520	P-23323	Assembly—Pump Piston and Link
P-23530	P-23740	Assembly—Throttle Lever and Stem
P-23534	P-23738	Assembly—Throttle Body
P-23539	P-23736	Assembly—Air Horn and Valve
P-23540	P-23737	Assembly—Air Horn
P-23544	P-22608	Assembly—Choke Stem and Pin
P-23552	P-22556	Rod—Deflooder
P-23567	P-22795	Main Discharge Jet
None Shown	P-1791	Lockwasher—Pump Rod Lever Nut
None Shown	P-2290	Nut—Pump Rod Lever
None Shown	P-8495	Plug—Vent Channel
None Shown	P-23745	Boot—Pump Piston Link



AAOV-1
N . A-18431
1" DUAL CARB.



Notes and References·

Car models having this carburetor with parts exceptions are shown on back of this page

†These parts not illustrated

‡Indicates Sub-Assembly part

PARTS LIST STROMBERG MODEL AAOV-1 CARBURETOR (as used on Chrysler Model C-14-1937)

Part No.	Name
112-S-1	Fast Idle Rod Cotter Pin
P-2475	Air Horn Attaching Screw
P-2885	Float Needle Valve Seat Gasket
P-3157	Main Body Attaching Screw Lockwasher
P-4522	Choke Valve Attaching Screw
P-6406	Foat Level Sight Plug
P-6668	Air Horn Attaching Screw Lockwasher
P-7170	Pump Rod and Pump Link Cotter Pin
P-7338	Check Valve Plug Gasket
P-9394	Pump Rod Washer
P-15458	Idle Discharge Plug
P-15478	Idle Needle Valve
P-15831	Idle Adjustment Screw Spring
P-16161	Choke Stem Collar Set Screw
P-17060	Pump Link Splash Washer
P-17081	Choke Stem Collar
P-17380	Pump Link Felt Packing
P-18144	Pump Check Valve
P-18710	Idle Needle Valve Spring
P-18772	Throttle Valve Body Lead Ball
P-18772	Air Horn Lead Ball
P-19424	Idle Tube with Holder Assembly
P-19433	Pump Lever Fulcrum Screw
P-19448	Pump and Economizer By Pass Jet Gasket
P-19526	Pump Piston Follow-up Spring
P-19587	Fast Idle Rod Adjustment Nut
P-19716	Pump Check Valve Plug
P-19820	Pump Lever Fulcrum Screw Spring Washer
P-20424	Idle Adjustment Screw
P-20744	Fast Idle Cam Washer
P-20745	Fast Idle Cam Fulcrum Screw
P-20904	Throttle Valve Screw
P-21657	Economizer By Pass Jet Assembly
P-21767	Main Discharge Jet Plug ¾"-24
P-22045	Pump Piston Cup Washer
P-22046	Pump Piston Spring Retainer Washer
†P-22429	Pump Piston Link and Spring Assembly
P-22430	Pump Lever

Part No	Name	
P-22433	Float with Lever Assembly	
P-22439	Float Fulcrum Pin	
P-22441	Float Hanger	
P-22451	Air Horn Gasket	
P-22452	Pump Piston and Link Assembly	
‡P-21568	Pump Piston Leather Expansion Spring	
P-22499	Float Needle Valve and Seat Assembly	
‡P-22523	Float Needle Valve Clip	
P-22522	Main Body Gasket	
P-22643	Pump Piston Packing Return Spring	
*P-22660	Metering Jet	(VAR)
P-22770	Main Body Insulator Gasket	
P-22771-A	Air Horn	
*P-22779	Main Body	(VAR)
‡P-8495	Expansion Plug	
‡P-18772	Lead Ball	
‡P-19430	Pump Discharge Tube Wedge	
‡P-20232	Pump Discharge Tube	
†P-22781	Air Horn and Valve Assembly	
P-22784	Throttle Lever and Stem Assembly	
P-22787	Pump Rod Assembly	
P-22788	Fast Idle Rod	
P-22791	Choke Lever and Stem	
P-22792	Fast Idle Cam	
P-22794	Fast Idle Cam Lever Assembly	
‡P-22801	Fast Idle Ball Joint Assembly	
P-22795	Main Discharge Jet	
*P-22796	Throttle Body Assembly	(VAR)
‡P-21054	Expansion Plug	
‡P-22853	Fast Idle Cam Stop Pin	
P-22803	Vacuum Economizer Assembly	
*P-22806	Throttle Valve	(VAR)
P-22809	Choke Valve Assembly	
P-22811	Pump By Pass Jet Assembly	
P-22851	Main Discharge Jet Plug Gasket	
P-22867	Main Body Attaching Screw ¼"-20	
P-22934	Throttle Lever Torsion Spring	

J-4784-G AAOV-1 Complete Gasket Set

STANDARD SPECIFICATIONS

CHRYSLER MODEL "C-14" 1937 (671875)
3¼" x 4⅛"—8 Cyl.
A-18431 AAOV-1 Carburetor (Code No 4-71)

P-19424	Idle Tube No 70 Feed Hole
P-21657	Vac Econ By Pass Jet No 56 Hole
P-22660	047" Metering Jet
P-22779	Main Body with 1 1/32' Venturi No 70 H S Bleeder, No 60 P D Tubes
P-22795	Main Discharge Jet No 36
P-22796	Throttle Body No 54-60 Idle Holes No 42 Idle Air Bleed, No 56 Vac Spark Hole 031" Plus or Minus 004" above Throttle Valve
P-22806	5° Throttle Valve
P-22811	Pump By Pass Jet 2 No 56 Holes

STANDARD SETTINGS FOR AAOV-1 CARBURETORS

Throttle Valve Location Upper lip of throttle valve to be 040' plus or minus 004" below lower edge of upper idle hole

Pump Capacity 27 to 31 CC Slow and 21 to 25 CC Fast per 10 Strokes in Maximum adjustment

Pump Travel Setting Maximum

Fuel Level ⅞" below the top surface of the float chamber at 3 pounds pressure, which corresponds to the bottom of the float level sight plug

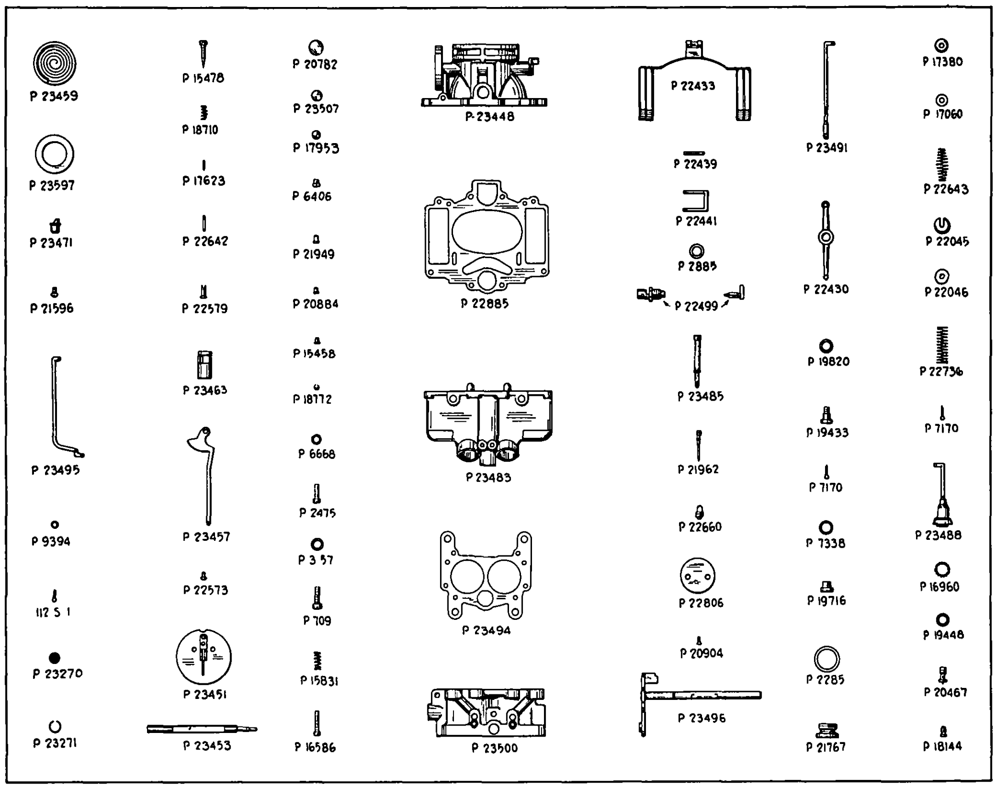
NOTE When resetting the position of floats, Service Tool SER-292 should be used, if the float tool is not available the distance between the top of the float and the gasket should be 1-13/32"

IMPORTANT Float level can be checked only when engine is running Do not start engine while carburetor cover is removed becase a backfire from the manifold may cause a serious fire

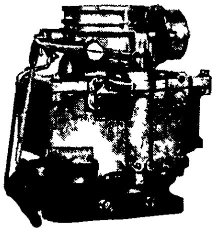
SPECIFICATIONS OF STANDARD EQUIPPED PASSENGER CAR PARTS AND SETTINGS EXCEPTIONS MODEL AAOV-1 CARBURETOR

CHRYSLER MODEL "C-15" 1937 (671876)
3¼" x 4⅞"—8 Cyl.
A-18441 AAOV-1 Carburetor (Code No 4-72)

Std Part No	Special Part No Used on Above Model Car	
P-21657	P-21197	Vacuum Economizer By Pass Jet No 54
P-22429	P-22857	Pump Piston Link and Spring Assy
P-22452	P-22858	Pump Piston and Link Assembly
P-22660	P-22660	047" Metering Jet
P-22779	P-22779	Main Body 1⅛" Venturi No 70 H S Bleeder, No 60 P D Tubes
P-22796	P-22796	Throttle Body No 54-60 Idle Holes No 44 Idle Air Bleed No 56 Vac Sp Hole 031" plus or minus 004 above Throttle Valve



AAO-161
NO. A-18371
1⅛" DUAL CARB
SAE



Notes and References

Car models having this carburetor with parts exceptions therefor are shown on back of this page

†These parts not illustrated

‡Indicates Sub-assembly part

PARTS LIST STROMBERG MODEL AAO-161 CARBURETOR (as used on Studebaker President 1938)

Part No	Part Name	
P-112-S-1	Cotter—Choke Release Rod	
P-709	Screw—Main Body Attaching	
P-2475	Screw—Air Horn Attaching	
P-2885	Gasket—Float Needle Valve Seat	
P-3157	Lockwasher—M B Attaching Screw	
P-6406	Plug—Float Level Sight	
P-6668	Lockwasher—Air Horn Attaching	
P-7170	Cotter Pin—Pump Link and Pump Rod	
P-7338	Gasket—Check Valve Plug	
P-9394	Washer—Pump Rod	
P-15458	Plug—Idle Discharge	
P-15478	Valve—Idle Needle	
P-15831	Spring—Idle Adj Screw	
P-16586	Screw—Idle Adj	
P-17060	Washer	
P-17380	Packing—Felt	
P-17623	Pin—Thermostat Drive	
P-17953	Plug—Fast Idle Vacuum Chan Drive	
P-18144	Pump Check Valve	
P-18710	Spring—Idle Needle Valve	
P-18772	Ball—Lead	
P-19433	Screw—Fulcrum	
P-19448	Gasket	
P-19716	Plug—Check Valve	
P-19820	Spring Washer—Pump Lever Fulcrum Screw	
*P-20467	By-Pass Jet	(VAR)
P-20782	Plug—Expansion Vacuum Piston	
P-20884	Plug—Vacuum Spark Control Chan ¼	
P-20904	Screw—Throttle Valve	
†P-20973	Rivet—Vacuum Piston	
P-21596	Screws—Ther Attach	
P-21767	Plug—Main Discharge Jet	
P-21949	Plug—Vacuum Spark Control Chan	
P-21962	Idle Tube with Holder	
P-22045	Washer—Spring Retainer	
P-22046	Washer	
P-22430	Lever—Pump	
P-22433	Float with Lever	
P-22439	Pin—Fulcrum	
P-22441	Hanger—Float	

Part No	Part Name	
P 22499	Float Needle Valve and Seat	
‡P-22523	Clip—Float Needle Valve	
P-22573	Screw—Choke Valve	
P-22579	Pin—Fast Idle Link Fulcrum	
P-22643	Spring—Packing Retainer	
*P-22660	Jet—Metering	(VAR)
P-22736	Spring—Follow-up (Superseded by P-19458)	
P-22806	Valve—Throttle (right)	
P-22851	Gasket—Main Disch Jet Plug	
P-22885	Gasket—Air Horn	
P-23270	Strainer—Vent	
P-23271	Spring Clip—Vent Strainer	
†P-23450	Air Horn and Valve Assembly	
P-22448	Air Horn Assembly	
P-23451	Choke Valve Assembly	
P-23453	Choke Stem and Pin	
‡P-22642	Pin—Choke Stem	
P-23457	Link—Fast Idle Piston	
†P-23458	Tube—Vent	
P-23459	Thermostat Unit (complete)	
P-23463	Vacuum Piston	
P-23471	Spool—Thermostat	
†P-23472	Tube—Heat	
*P-23483	Main Body Assembly	(VAR)
‡P-8495	Plug—Expansion	
‡P-18772	Ball—Lead	
‡P-19430	Wedge—Pump Disch Tube	
*P-23485	Jet—Main Discharge	(VAR)
†P-23487	Pump Piston Link and Spring Assembly	
P-23488	Pump Piston and Link	
‡P-16960	Spring—Pump Piston Leather Expansion	
P-23491	Pump Rod	
P-23494	Gasket—Main Body	
P-23495	Rod—Choke Release	
P-23496	Throttle Lever and Stem	
*P-23500	Throttle Body	(VAR)
†P-23504	Valve—Throttle (left)	
P-23507	Plug—Fast Idle By-Pass Chan Expansion	
†P-23596	Nut—Heat Tube Connecting	
P-23597	Gasket—Thermostat Housing	

J-5318-G Complete set of gaskets for AAO-161 Carb

*NOTE On parts marked (VAR) size must be specified when ordering

STANDARD SPECIFICATIONS

STUDEBAKER PRESIDENT 1938 (192467)

3 1/16"x4¼"—8-Cylinder

A-18371 AAO-161 Carburetor (Code No. 6-70)

P-20467	1-No 65 By-Pass Jet
P-22660	047" Metering Jet
P-23483	Main Body—1-1/32" Venturi, No 60 H S Bleeder No 66 Idle Air Bleed, No 65 Pump Discharge
P-23485	No 36 Main Discharge Jet
P-23500	Throttle Body—No 54-60 Idle Discharge Hole, No 50 Idle Air Bleed

STANDARD SETTINGS FOR AAO-161 CARBURETORS

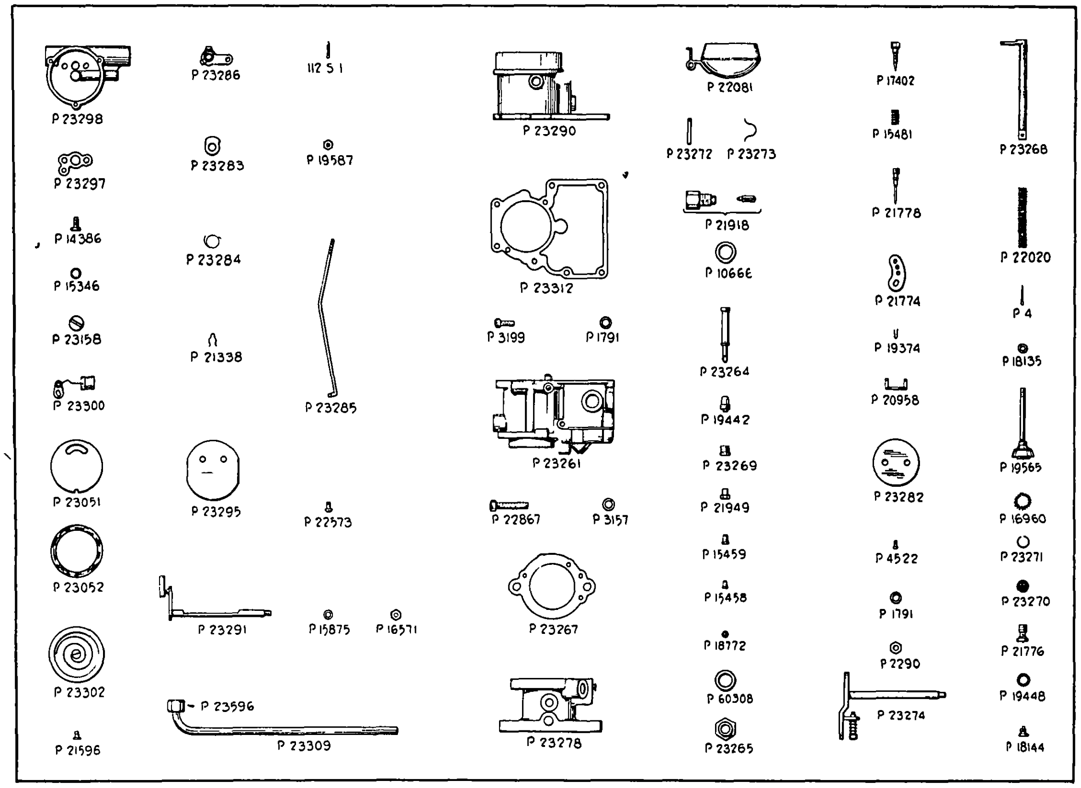
Throttle Valve Location Upper lip of throttle valve to be 020" plus or minus 004" below lower edge of upper idle hole

Pump Capacity 16 to 20 CC (Slow) 6 to 10 CC (Fast) per 10 strokes

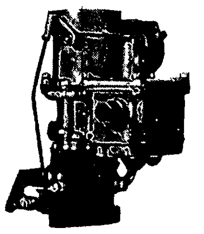
Pump Travel Setting In short stroke

Fuel Level ⅝" below top surface of the float chamber at 3 lbs pressure which corresponds to the bottom of float level sight plug When resetting the position of the float special tool T-24971 should be used, if the float level tool is not available the distance between the top of the float and the gasket should be 1-11/32"

Thermostat Adjustment The thermostat spring is set at the factory to give satisfactory performance under normal conditions To compensate for the wide range in volatility of the various brands of gasoline three markings are incorporated on the outside of the thermostat cover, namely H, M and R The standard setting at the factory is with "R" coinciding with the highest projection on the thermostat housing flange and is for use with regular or commercial brands of gasoline If by having the cover set at "R" the engine tends to load up or over-choke, the cover should be moved to "M" which provides a leaner setting Where high volatile fuels are continuously used, it may be desirable to set the cover plate on "H" The thermostat that is originally installed need not be changed unless it is tampered with In such cases the entire assembly should be replaced



BXO-26
N . A-18652
1⅜" CARB. SAE



Notes and References:
Car models having this carburetor with parts exceptions therefor are shown on back of this page

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†These parts not illustrated

‡Indicates Sub-assembly part

PARTS LIST STROMBERG MODEL BXO-26 CARBURETOR
(As used on Studebaker "6"-"7A" and Studebaker Commander "8A")

Part No	Part Name	
P-112-S-1	Cotter Pin Fast Idle Rod	
P-4	Cotter Pin Pump Rod, Thermostat Retaining	
P-1791	Lockwasher	
P-2290	Nut—Pump Lever	
P-3157	Lockwasher—Main Body Attach	
P-3199	Screws—Air Horn Attach	
P-4522	Screw—Throttle Valve Attach	
P-10666	Gasket—Float Needle Valve Seat	
P-14386	Screw—Auto Choke Housing Attach	
P-15346	Lockwasher—Auto Choke Housing Attach Screw	
P-15458	Plug—Idle Discharge Channel	
P-15459	Plug—Drive—Idle Air Bleed Channel	
P-15481	Spring—Idle Needle Valve	
P-15831	Spring—Idle Adj Screw	
P-15875	Lockwasher—Vac Piston and Link Assy Attach Nut	
P-16571	Nut—Vac Piston and Link Assy Attach	
P-17402	Valve—Idle Needle	
P-18135	Nut—Pump Rod	
P-18144	Pump Check Valve	
P-18772	Ball—Lead—Ch Hous Chan	
P-19374	Cotter Pin—Pump Link	
*P-19442	Jet—Metering	(VAR)
P-19448	Gasket—By-Pass Jet	
P-19565	Pump Piston and Stem	
‡P-16960	Spring—Piston Expansion	
†P-19575	Ball Joint	
P-19587	Nut—Fast Idle Rod	
P-20958	Link—Pump	
P-21338	Cotter Pin—Fast Idle Cam	
P-21596	Screw—Therm Cover Assem Attach	
P-21774	Lever—Pump	
*P-21776	By-Pass Jet	(VAR)
*P-21778	Idle Tube	(VAR)
P-21918	Float Needle Valve and Seat	
P-21949	Plug—Pump Chan Drive ¼"	
P-22020	Spring—Pump Stem	
P-22081	Float and Lever	
†P-22337	Plug—Spark Control Channel	
P-22573	Screw—Choke Valve Attach	
P-22867	Screw—Main Body Attach	
P-23051	Plate—El Unit Baffle	
P-23052	Insulator—Thermostat Housing	
P-23158	Plug—Vac Piston Bore	
P-23261	Main Body Assembly	(VAR)
‡P-18772	Lead Balls	
‡P-19430	Wedge—Pump Discharge	
‡P-23263	Cup—Small Venturi	
*P-23264	Jet—Main Discharge	(VAR.)
P-23265	Plug—Main Discharge Jet	
†P-23266	Gasket—Main Body (Insulator)	
P-23267	Gasket—Main Body	
P-23268	Pump Rod	
P-23269	Plug—Pump Check Valve Channel	
P-23270	Screen—Pump Strainer	
P-23271	Spring Clip—Pump Strainer	
P-23272	Pin—Float Fulcrum	
P-23273	Spring—Float Fulcrum Pin	
P-23274	Throttle Lever and Stem	
†P-23277	Screw—Slow Idle	
*P-23278	Throttle Body	(VAR)
P-23282	Valve—Throttle	
P-23283	Cam—Fast Idle	
P-23284	Spring—Torsion	
P-23285	Rod—Fast Idle	
P-23286	Fast Idle Cam Lever	
†P-23289	Air Horn with Valve and Auto Choke Housing	
P-23290	Air Horn	
P-23291	Air Horn Lever and Stem	
P-23295	Valve—Choke	
P-23297	Gasket—Auto Choke Housing	
P-23298	Auto Choke Housing	
P-23300	Vac Piston with Link and Lever	
P-23302	Thermostat Cover Assy	
‡P-23303	Cover—Thermostat	
‡P-23304	Gasket—Insulation	
‡P-23305	—Ring—Retainer Spring	
‡P-23306	Screen—Strainer	
‡P-23307	Washer—Strainer Screen	
‡P-23308	Thermostat	
P-23309	Tube—Heat	
P-23312	Gasket—Air Horn	
P-23596	Nut—Heat Tube Connecting	
P-60308	Gasket—Main Disch Jet Plug	

J-5319-G Complete set of gaskets for BXO-26 Carb

*NOTE On parts marked (VAR) size must be specified when ordering

STANDARD SPECIFICATIONS

STUDEBAKER "6"-"7A" AND COMMANDER "8A"
1938 (192466)
$3\frac{5}{16}$"x$4\frac{3}{8}$"—6-Cylinders
A-18652 BXO-26 Carburetor (Code No. 6-69)

P-19442	.059" Metering Jet
P-21776	2-No. 56 By-Pass Jet
P-21778	No. 70 Idle Tube
P-23261	Main Body—$1\frac{3}{16}$" Venturi, No. 70 H. S. Bleeder, No. 54 Idle Air Bleed, No. 64 Pump Discharge
P-23264	No. 28-36 Main Discharge Jet
P-23278	Throttle Body—No. 56-60 Idle Discharge Holes

STANDARD SETTINGS FOR BXO-26 CARBURETOR

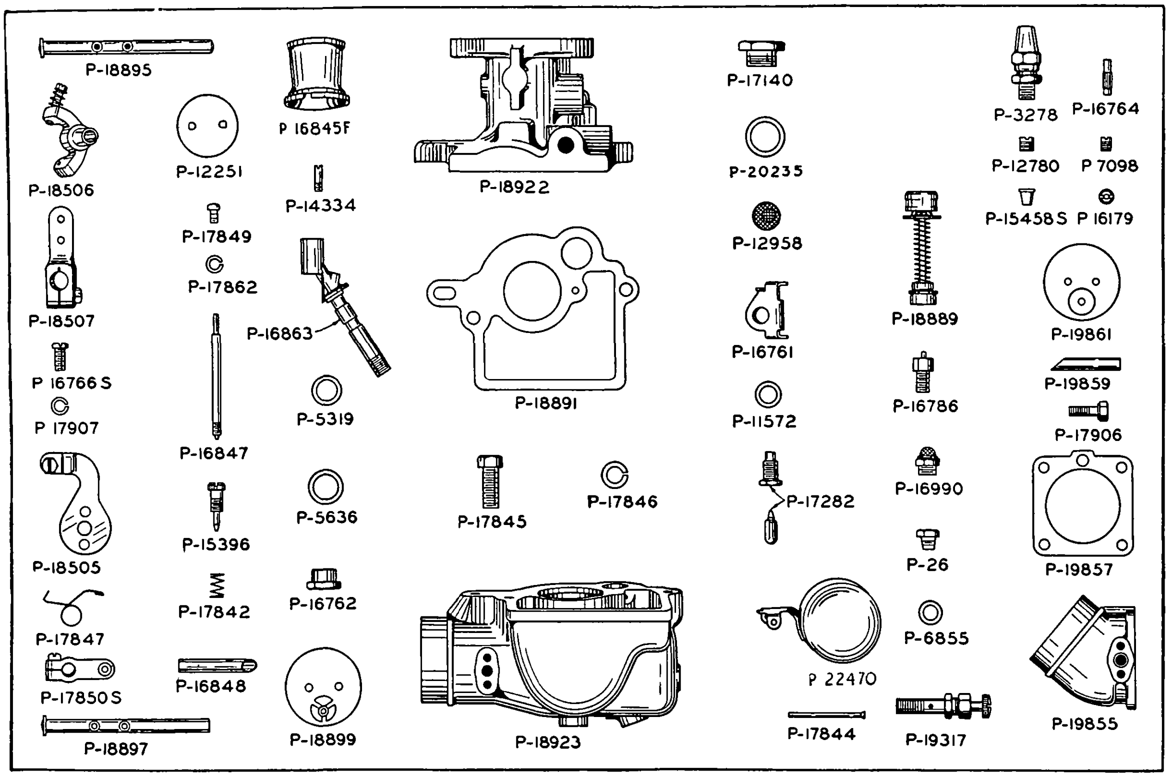
Throttle Valve Location: Upper lip of throttle valve to be .010" plus or minus .004" below lower edge of upper idle hole.

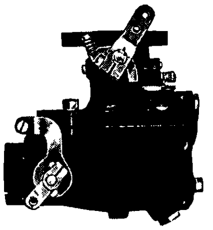
Pump Capacity: 11 to 14 CC (Fast) 17 to 22 CC (Slow) per 10 strokes. (Middle adjustment).

Pump Travel Setting: Middle hole on pump lever.

Fuel Level: ⅝" below top surface of the float chamber at 3 lbs. pressure.

Thermostat Adjustment: The Thermostat spring is set at the factory to give satisfactory performance under normal conditions. To compensate for the wide range in volatility of the various brands of gasoline, three markings are incorporated on the outside of the thermostat cover, namely: H. M and R. The standard setting at the factory is with "R" coinciding with the highest projection on the thermostat housing flange and is for use with regular or commercial brands of gasoline. If by having the cover set at "R" the engine tends to load up or over-choke, the cover should be moved to "M" which provides a leaner setting. Where high volatile fuels are continuously used it may be desirable to set the cover on "H". The thermostat that is originally installed need not be changed unless it is tampered with.





Notes and References:

Parts for SFM-3 cast-iron straight air-horn and elbow air-horn illustrated, corresponding SFM-4 and SFM-5 parts shown in listing below

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Marine Engines having these carburetors with parts exceptions therefor are shown on back of this page

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‡Indicates sub assembly parts

NOTE—P-14160 P 14374 not shown

SFM-3 No. A-17493	SFM-3 No. A-17503	SFM-4 No. A-17494	SFM-4 No. A-17614	SFM-5 No. A-17495	SFM-5 No. A-17615
CAST IRON CARB — STR AIR HORN	CAST IRON CARB — ELB AIR HORN	CAST IRON CARB — STR AIR HORN	CAST IRON CARB — ELB AIR HORN	CAST IRON CARB — STR AIR HORN	CAST IRON CARB — ELB AIR HORN

PARTS LIST STROMBERG MODELS SFM-3-4-5 STRAIGHT AIR HORN (Cast Iron) Standard Marine Carburetors

SFM-3	SFM-4	SFM-5	Name
P-26	P-8387	P-8387	Gas Inlet Plug
P-26	P-26	P-26	Drain Plug
P-3278	P-3223	P-3223	Gasoline Union
‡P-3279	‡P-3219	‡P-3219	Gasoline Union Nipple
‡P-3220	‡P-3218	‡P-3218	Gasoline Union Nut
P-3292	P-3292	P-3292	Pipe Plug
P-5636	P-5636	P-5636	Main Disch Jet Nut Gasket
P-6855	P-6855	P-6855	Metering Jet Gasket
P-7098	P-7098	P-7098	Pump Channel Plug
P-11572	P-14364	P-14364	Fl Hanger Gasket
*P-12251	P-16064	P-16065	Throttle Valve (VAR)
P-12780	P-12780	P-12780	Idle Channel Plug
P-14160	P-14160	P-14160	Cork Washer
P-12958	P-12958	P-12958	Gasoline Strainer
P-14374	P-14374	P-14374	Plug (Replacing Pump Adv Screw)
*P-14334	P-16320	P-16320	High Speed Bleeder (VAR)
P-15396	P-15396	P-15396	Idle Needle Valve
P-15458S	P-15458S	P-15458S	Pump Channel Plug
P-15458S	P-15458S	P-15458S	By Pass Channel Plug
P-15458S	P-15458S	P-15458S	Vacuum Pump Channel Plug
*P-16179	P-16179	P-16179	By-Pass Reducer (VAR)
P-16761	P-17500	P-17500	Float Hanger
P-16762	P-16762	P-16762	Discharge Jet Nut
P-16764	P 16764	P-16764	Choke Valve Stop Pin
P-16766S	P-16766S	P-16766S	Tube Holder Attach Screws
*P-16786	P-16786	P-16786	By-Pass Jet (VAR)
*P-16845F	P-17498F	P-17739F	Venturi (VAR)
P-16847	P-17497	P-17497	Idle Tube
P-16848	P-17499	P-17499	Fl Chamber Vent
*P-16863	P-17250	P-17250	Main Discharge Jet (VAR)
P-16990	P-16990	P-16990	Pump Check Valve
P-17140	P-17140	P-17140	Strainer Plug
P-17282	P-18811	P-18811	Float Needle Valve & Seat
‡P-14364	‡P-14364	‡P-14364	Fl Ndl Valve Seat Gasket
P-17842	P-17842	P-17842	Idle Needle Valve Spring
P-17844	P-17844	P-17844	Float Fulcrum Pin
P-17845	P-17845	P-17845	Main Body Attach Screws
P-17846	P-17846	P-17846	M B Attach Screw Lckwshr
P-17847	P-17847	P-17847	Ch Lever Return Spring
P-17849	P-17849	P-17849	Choke Valve Screws
P-17849	P-12209	P-12209	Throttle Valve Screws
P-17850	P-17850	P-17850	Choke Lever
‡P-12212	‡P-12212	‡P-12212	Choke Lever Clamp Screw
‡P-13981	‡P-13981	‡P-13981	Choke Lvr Wire Clamp Sc
P-17862	P-17862	P-17862	Throttle Valve Lockwasher
P-17862	P-17862	P-17862	Choke Valve Lockwasher
P-17907	P-17907	P-17907	Tube Hldr Att Scr Lkwshr
P-18505	P-18505	P-18505	Choke Tube Holder
‡P-16807S	‡P-16807S	‡P-16807S	Choke Tube Holder Screw
P-18506	P-18506	P-18506	Throttle Stop
‡P-18552S	‡P-18552S	‡P-18552S	Throttle Stop Screws
‡P-15831S	‡P-15831S	‡P-15831S	Throttle Stop Spring
P-18507	P-18507	P-18507	Throttle Lever
‡P-19336S	‡P-19336S	‡P-19336S	Throttle Lever Screw
P-18889	P-17854	P-17854	Vacuum Pump
P-18891	P-17585	P-17585	Main Body Gasket
P-18895	P-18879	P-18554	Throttle Stem
P-18897	P-18870	P-18870	Choke Lever Stem
P-18899	P-17860	P 17860	Choke Valve
*P-18922	P-18925	P-18926	Throttle Valve Body (VAR)
‡P-14202	‡P-14997	‡P-14997	Thro Valve Body Bushings
P-18923	P-18924	P-18924	Main Body
‡P-16850	‡P-16850	‡P-16850	Main Jet Locating Pin
P-19317	P-18953	P-18953	High Speed Adj Nozzle
‡P-12803	‡P-12803	‡P-12803	H S Adj Nozzle Nut
‡P-1503	‡P-1503	‡P-1503	H S Adj Nozzle Packing
P-20235	P-20235	P-20235	Gasoline Strainer Gasket
P-21372	P-21372	P-21372	Main Discharge Jet Gasket
P-22470	P-17501	P 17501	Float

Exceptions to the Above With Elbow Air Horn (Cast Iron)

P-19854	P-18354	P-17834	Throttle Valve Body (Var)
‡P-14202	‡P-14997	‡P-14997	Thro Valve Body Bushings
P-19853	P-17835	P-17835	Main Body
P-19860	P-18418	P-17836	Main Body Gasket
P-19857	P-17838	P-17838	Air Horn Gasket
P-19856	P-18415	P-17863	Air Horn (Comp)
‡P-19855	‡P-17833	‡P-17833	Air Horn
‡P-19859	‡P-17861	‡P-17861	Air Horn Vent Tube
		P-17847	Choke Lever Return Spring
‡P-19861			Choke Valve
	‡P-18414	‡P-17858	Choke Lever Stem
	‡P-17880	P-17880S	Choke Tube Holder
	‡‡P-16807S	‡‡P-16807S	Choke Tube Clamp Screw
P-17906	P-17906	P-17906	Air Horn Attach Screws
		P-19705	Plug
		P-20873	Thro Stop Groove Pin

*NOTE On parts marked (VAR) size must be specified when ordering

Printed in United States of America

STANDARD SPECIFICATIONS

A-17503 SFM-3 Carburetor (Code No 1-34)
Cast Iron—Elbow Air Horn

P-12251	20° Throttle Valve
P-14334	No 65 High Speed Bleeder
P-16179	No 58 By Pass Reducer
P-16786	040" By Pass Jet
P-16845-F	1¼" Venturi
P-16847	Idle Tube with No 68 Feed Hole and No 62 Top Hole
P-16863	No 28 Main Disch Jet
P-19317	Adj Meter Jet
P-19854	Throttle Valve Body with No 58-64 Idle Holes and Flange Tapped ⅜-16

A-17493 SFM-3 Carburetor (Code No 1-30)
Cast Iron—Straight Air Horn

P-12251	21° Throttle Valve
P-14334	No 65 High Speed Bleeder
P-16179	No 58 By Pass Reducer
P-16786	032" By Pass Jet
P-16847	Idle Tube with No 68 Feed Hole and No 62 Top Hole
P-16863	No 28 Main Disch Jet
P-16845-F	$1\frac{3}{16}$" Venturi
P-18922	Throttle Valve Body with No 58-64 Idle Holes and Flange Tapped ⅜-16
P-19317	Adj Meter Jet

A-17614 SFM-4 Carburetor (Code No. 1-35)
Cast Iron—Elbow Air Horn

P-16064	21° Throttle Valve
P-16179	No 58 By Pass Reducer
P-16320	No 72 H S Bleeder
P-16786	060" By Pass Jet
P-17250	No 28 Main Disch Jet
P-17497	Idle Tube with No 66 Feed Hole and No 52 Top Hole
P-17498-F	1⅝" Venturi
P-18354	Throttle Valve Body with No 56-60 Idle Holes and Flange Tapped $\frac{7}{16}$-14"
P-18953	Adj Meter Jet

A-17494 SFM-4 Carburetor (Code No. 1-31)
Cast Iron—Straight Air Horn

P-16064	21° Throttle Valve
P-16179	No 58 By Pass Reducer
P-16320	No 72 H S Bleeder
P-16786	046" By Pass Jet
P-17250	No 28 Main Disch Jet
P-17497	Idle Tube with No 66 Feed Hole and No 52 Top Hole
P-17498-F	1½" Venturi
P-18925	Throttle Valve Body with No 56-60 Idle Holes and Flange Tapped $\frac{7}{16}$-14
P-18953	Adj Meter Jet

A-17615 SFM-5 Carburetor (Code No. 1-36)
Cast Iron—Elbow Air Horn

P-16065	21° Throttle Valve
P-16179	No 58 By Pass Reducer
P-16320	No 72 H S Bleeder
P-16786	060" By Pass Jet
P-17250	No 25 Main Disch Jet
P-17497	Idle Tube with No 66 Feed Hole and No 52 Top Hole
P-17739-F	1⅝" Venturi
P-17834	Throttle Valve Body with No 56-60 Idle Holes and Flange Tapped $\frac{7}{16}$-14
P-18953	Adj Meter Jet

A-17495 SFM-5 Carburetor (Code No 1-32)
Cast Iron—Straight Air Horn

P-16065	21° Throttle Valve
P-16179	No 58 By Pass Reducer
P-16320	No 72 H S Bleeder
P-16786	056" By Pass Jet
P-17250	No 25 Main Disch Jet
P-17497	Idle Tube with No 66 Feed Hole and No 52 Top Hole
P-17739-F	1⅝" Venturi
P-18926	Throttle Valve Body with No 56-60 Idle Holes and Flange Tapped $\frac{7}{16}$-14
P-18953	Adj Meter Jet

STANDARD SETTINGS FOR SFM-3-4-5 CARBURETORS

Fuel Level $1\frac{1}{16}$" at 2 lbs pressure

Pump Travel Maximum—(Full Travel)

Throttle Valve Locations (SFM-3) Lower lip of throttle valve to be flush plus or minus 004 with top of lower idle hole

(SFM-4-5) Lower idle hole to be exposed 040 plus or minus 004—(No 64 drill go and No 57 drill no go gauge)

Pump Capacity { SFM-3—30 CC per 10 Strokes.
SFM 4-5—44 to 48 CC per 10 Strokes

SPECIFICATIONS OF STANDARD EQUIPPED TRUCKS

PARTS AND SETTINGS EXCEPTIONS MODEL SFM-3-4-5 STANDARD CARBURETORS

MACK-INTERNATIONAL MOTOR CO 1936-37
"CQ AND CT" BUSSES (2-CT-31-A)
4½" x 5½"—6 Cyl Engine
A-17824 SFM-4 Carburetor (Code No 24-97)

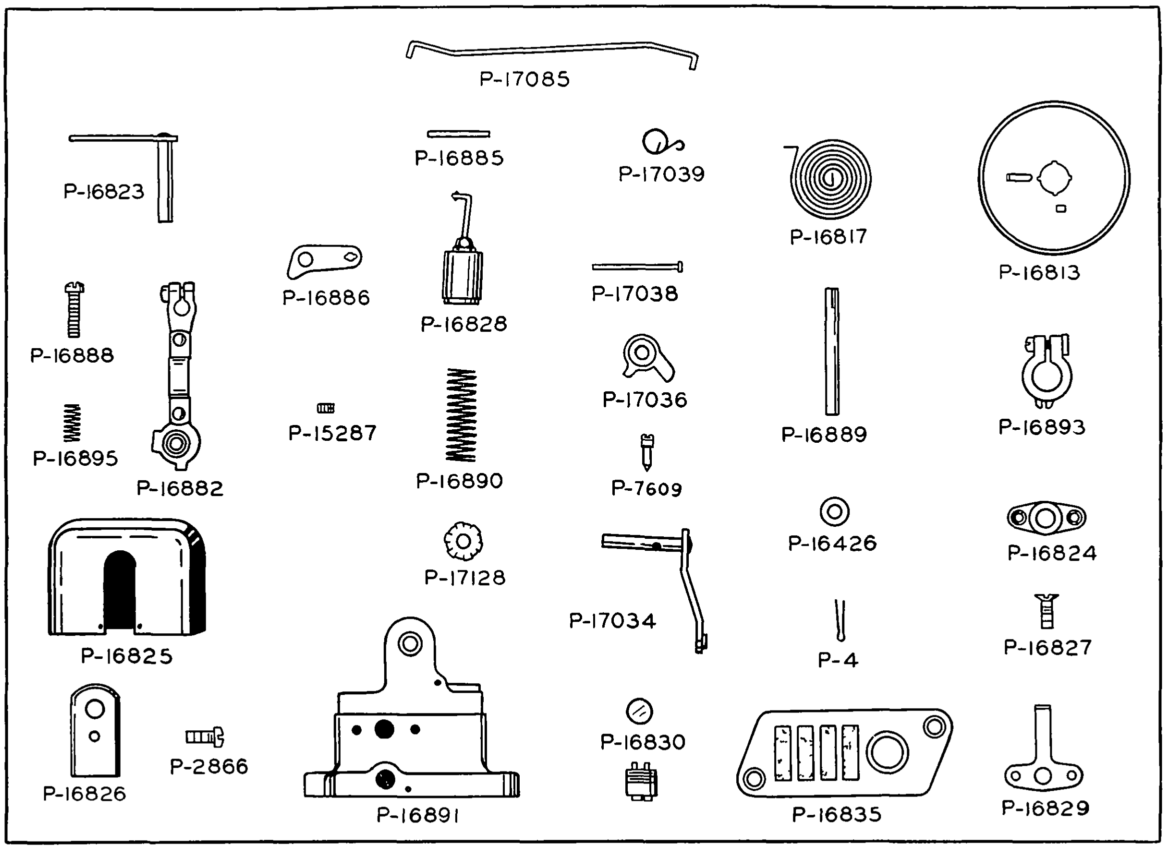
Std Part No	Special Part No	Used on Above Model Truck
P-3223	P-18930	Gas Union Elbow Assembly
P-12209	P-285	Throttle Valve Attaching Screw
P-16320	P-16320	No 60 High Speed Bleeder
P-16786	P-16786	048" By Pass Jet
P-17497	P-22702	Idle Tube with No 72 Feed Hole and 5/64 Top Hole
P-17498-F	P-17498	$1\frac{7}{16}$" Venturi Tube
P-17842	P-12530	Idle Needle Valve Spring
P-17844	P-16760	Float Fulcrum Pin
P-17845	P-16849	Main Body Attaching Screw
P-17846	P-5364	Main Body Attach Screw Lockwash
P-17849	P-15259	Choke Valve Attaching Screw
P-17854	P-17506	Vacuum Pump Assembly
P-17860	P-21576	Choke Valve Assembly
P-17862	P-1693	Choke Valve Screw Lockwasher
P-18506	P-18449	Throttle Stop Assembly
P-18507	P-20216-K	Throttle Lever Assy on Left Side
P-18870	P-17517	Choke Lever Stem Assembly
P-18879	P-17519	Throttle Stem Assy
P-18924	P-22716	Main Body Assembly
P-18925	P-22717	Throttle Body Assembly No 54-60 Idle Holes Flange Tapped $\frac{7}{16}$'-14
P-18953	P-15384	068 Metering Jet
None Shown	P-9745	Throttle Stop Taper Pin
None Shown	P-16764	Choke Valve Stop Pin
None Shown	P-14618	Vacuum Pump Adj Screw Nut
None Shown	P-19911	Vacuum Pump Adj Screw

NOTE Fuel Level 31/32' at 2 pounds pressure

MACK-INTERNATIONAL MOTOR CO 1936-37
MODEL "CW" BUS (2-CU-21-B)
3⅞" x 5'—6 Cyl Engine
A-17923 SFM-3 Carburetor (Code No 24-98)

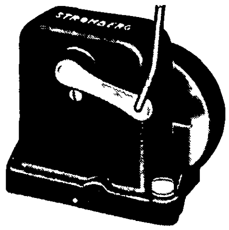
Std Part No	Special Part No	Used on Above Model Truck
P-3278	P 15278	Gas Union Assembly
P-16786	P-16786	028' By Pass Jet
P-16845-F	P-16845	$1\frac{5}{16}$' Venturi Tube
P-16847	P-22711	Idle Tube
P-17140	P-19995	Strainer Plug
P-17842	P-12530	Idle Needle Valve Spring
P-17844	P-16760	Float Fulcrum Pin
P-17845	P-16849	Main Body Attaching Screw
P-17846	P-5364	Main Body Attach Screw Lockwash
P-17849	P-15259	Choke Valve Attaching Screw
P-17849	P-15259	Throttle Valve Attaching Screw
P-17862	P-1693	Choke Valve Attach Screw Lockwash
P-17862	P-1693	Throttle Valve Attach Scr Lockwash
P-18506	P-18449	Throttle Stop Assembly
P-18507	P-13498-K	Throttle Lever Assy on Left Side
P-18889	P-16856	Vacuum Pump Assembly
P-18891	P-16844	Main Body Gasket
P-18895	P-16866	Throttle Stem Assembly
P-18897	P-21756	Choke Stem
P-18899	P-21758	Choke Valve Assembly
P-18922	P-22725	Throttle Body Assembly
P-18923	P-22671	Main Body Assembly
P-19317	P-15384	060' Metering Jet
P-22470	P-16851	Float with Lever Assembly
None Shown	P-19911	Vacuum Pump Adj Screw
None Shown	P-14618	Vacuum Pump Adj Screw Nut
None Shown	P-6406	Idle Channel Plug
None Shown	P-9745	Throttle Stop Taper Pin

NOTE Fuel Level 31/32" at 2 pounds pressure



NOTE P-16886 shown in illustration should be P-17725 and P-16813 should be P-16818

"B" N . A-16130



Notes and References:

Car models having this choke control with parts exceptions therefor are shown on back of this page

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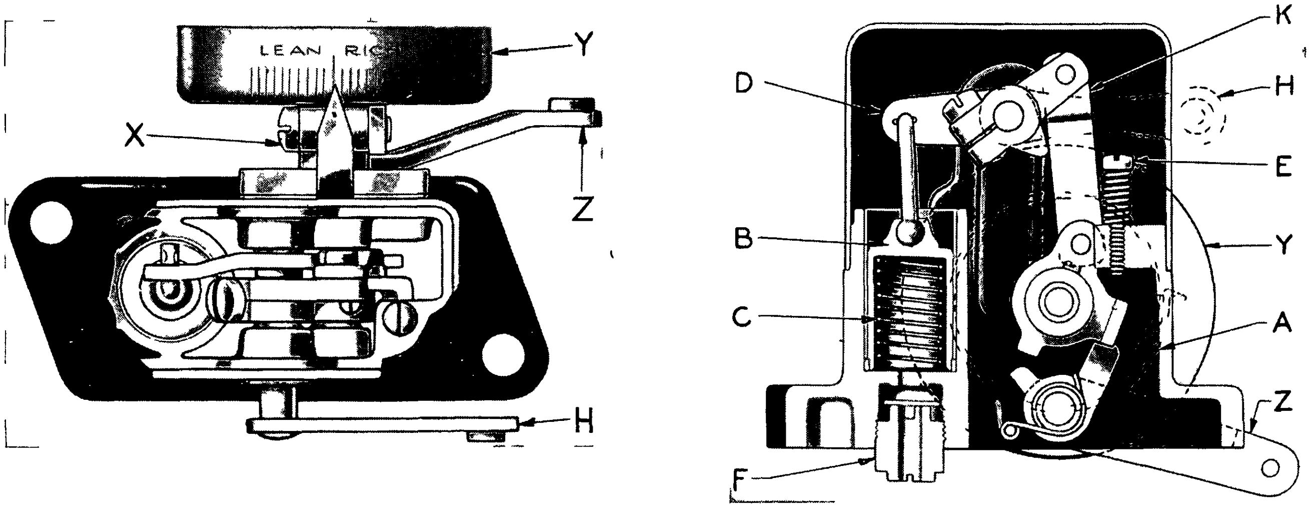
‡Indicates Sub assembly part

PARTS LIST STROMBERG MODEL "B" AUTOMATIC CHOKE

(As Used on Olds. 1932 "F-32")

Part No	Name
P-4	Thermostat Stem Washer Cotter Pin
P-2866	Main Body Plate Attaching Screw
P-7609	Kick Lever Set Screw
P-16426	Thermostat Stem Washer
P-16817	Thermostat
P 16818	Thermostat Housing
P-16823	Choke Lever with Stem (Complete)
P-16824	Thermostat Bracket
P-16825	Main Body Cover
P-16826	Main Body Plate
P 16828	Piston with Link (Complete)
P-16829	Thermostat Pointer
P 16830	Check Valve
P-16834	Check Valve Bushing
P-16835	Flange Gasket
P-16882	Choke Link with Levers (Complete)
‡P-2475	Choke Link Lever Screw
‡P-15287	Choke Link Lever Set Screw

Part No	Name
P-16885	Piston Stop Pin
P-16887	Thermostat Bracket Screw
P 16888	Adjusting Screw
P-16889	Thermostat Stem
P 16890	Piston Spring
P-16891	Main Body
‡P-16933	Choke Stem Bushings
P 16893	Thermostat Housing Clamp with Screw (Complete)
‡P-9025	Clamp Screw
‡P-4517	Clamp Screw Nut
P 16895	Adjusting Screw Spring
P-17034	Release Lever with Stem (Complete)
P-17036	Kick Lever with Bushing
P-17038	Kick Lever Torsion Spring Pin
P-17039	Kick Lever Torsion Spring
P-17085	Carburetor Connecting Rod
P-17128	Piston Washer
P-17725	Piston Kick Lever



Parts indicated above are as follows:

A Thermostat
B Vacuum Piston
C Vacuum Piston Spring
D Kick Lever
E Adjusting Screw
F Check Valve
H Choke Lever
K Connecting Link
X Case Clamp Screw
Y Thermostat Case
Z Release Lever

STANDARD SETTINGS FOR MODEL "B" AUTOMATIC CHOKE

Make all settings with choke lever in uppermost position with release lever locked

Lever positions may be determined by holding automatic choke in upright position with thermostat away and suction hole to left (Choke in closed position)

Unhook Thermostat "A" from hook, set case "Y" number of notches lean as shown in settings listed under name of car (See note), and with lever "H" in uppermost position, there should be from 002" to 020" space between hook and prong of case If this space needs to be adjusted, it can be done by loosening the link lever set screw which holds thermostat shaft in place and turning thermostat shaft Fasten set screw securely, observing that the thermostat does not rub against case "Y "

NOTE The number of notches listed under the name of car are for a 70° F Setting If temperature is below 70° add 1 notch for each 3° and if above 70° deduct 1 notch for each 3° (Thermostat A ' to cool or warm so as to be of same temperature as room)

Hold automatic choke in inverted position Lift up lever "H" and let it drop It must drop freely and by its own weight Observe if linkage "K" comes back to lock position (Replace thermostat on hook)

With this setting, lever "H" should catch in the choke closed position but should yield to a light pressure Revolve case "Y" one-quarter turn (prong will be under pointer) With this tension, lever "H" should resist a light pressure but should yield to a tap of the hand There should be a noticeable difference in the settings If the "catch" of lever "H" is to be changed, it can be done by adjusting screw "E " Turning screw "E" IN, or clockwise, will cause lever "H" to offer less resistance, turning screw "E" OUT will increase the catch of lever "H" in choke closed position (Return case "Y" to dividing line between rich and lean and fasten screw "X" securely

Piston "B" should work freely and should show no signs of sticking in any position When piston "B" is pushed down, it should unlock linkage "K "

PARTS AND SETTINGS EXCEPTIONS MODEL "B" AUTOMATIC CHOKE

OLDSMOBILE 1932 "F-32"
A-16130 Automatic Choke
Parts as Illustrated

SETTINGS
Choke Lever In horizontal position turned right
Release Lever Turned left
Thermostat Setting 5 notches

OLDSMOBILE 1932 "L-32"
A-16210 Automatic Choke

Std Part No	Special Parts as Used On Above Model Car	
P-17085	P-17087	Choke Rod

SETTINGS
Choke Lever In horizontal position turned right
Release Lever Turned right
Thermostat Setting 8 notches

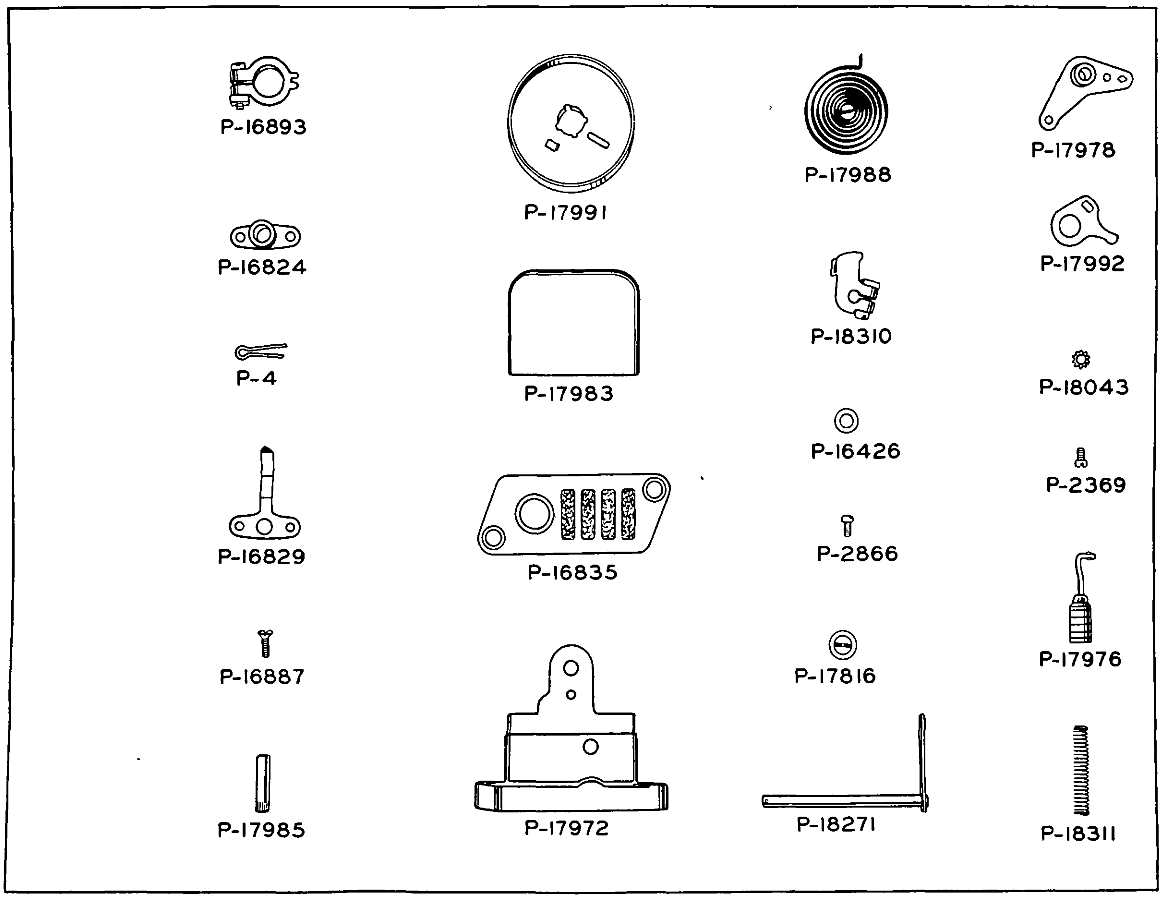
OLDSMOBILE 1932 "F-32" (401416)
A-16400 Automatic Choke (Code No 5-9)
Parts and Settings same as A-16130 less Choke Rod and Gasket

OLDSMOBILE 1932 "L-32" (401318)
A-16410 Automatic Choke (Code No 5-10)
Parts and Settings same as A-16210 less Choke Rod and Gasket

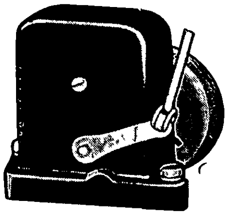
PACKARD "TWIN SIX" 1932 (203634)
No A-16510—Model "B" Automatic Choke (Code No 10-10)

Std Part No	Part Used on Above Model Car	
P-7609	P-16161	Set Screw
P-16823	P-17716-L	Choke Lever and Stem
P-16825	P-17728	Main Body Cover
P-16826	P-17727	Main Body Plate
P-16889	P-17726	Thermostat Stem
P-16891	P-17714	Main Body
P-17034	P-17719 L	Release Lever and Stem
P-17085	P-17765-L	Choke Connecting Rod

SETTINGS
Choke Lever Turned right and 18° above horizontal
Release Lever Turned left and 25° below horizontal at full release
Thermostat Setting 16 notches



"C" N . A-17390



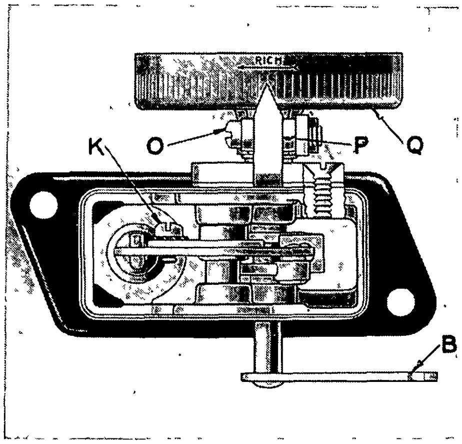
Notes and References:

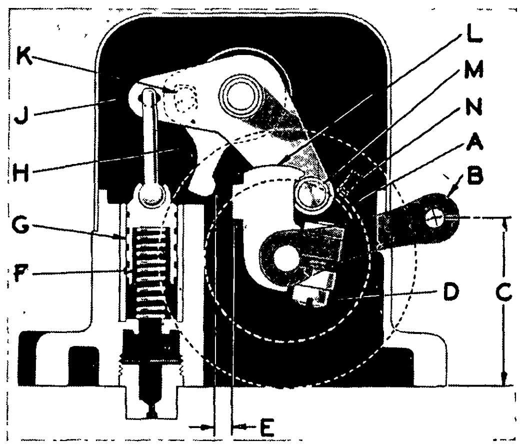
Car models having this choke control with parts exceptions therefor are shown on back of this page.

‡Indicates Sub-assembly part.

PARTS LIST STROMBERG MODEL STANDARD "C" AUTOMATIC CHOKE

Part No.	Name
*P-4	Thermostat Lever Washer Cotter Pin
P-2369	Piston Kick Lever Set Screw
P-2866	Main Body Cover Attaching Screw
P-16426	Thermostat Lever Washer
P-16824	Thermostat Bracket
P-16829	Thermostat Pointer
P-16835	Flange Gasket
P-16887	Thermostat Bracket Screw
P-16893	Thermostat Housing Clamp with Screw (Complete)
‡P-9025	Clamp Screw
‡P-4517	Clamp Screw Nut
P-17816	Check Valve Bushing
P-17972	Main Body
‡P-16933	Thermostat Stem Bushing
P-17976	Piston with Link (Complete)
P-17978	Piston Lever (Complete)
P-17983	Main Body Cover
P-17985	Piston Lever Stem
P-17988	Thermostat
P-17991	Thermostat Housing
P-17992	Piston Kick Lever
P-18043	Piston Kick Lever Set Screw Lockwasher
P-18271	Thermostat Lever and Stem
P-18310	Thermostat Cam (Complete)
‡P-18309	Thermostat Cam
‡P-18300	Thermostat Cam Clamp Screw
‡P-18299	Thermostat Cam Clamp Screw Nut
P-18311	Piston Spring





Parts indicated above are as follows:

A. Thermostat.
B. Control Lever.
C. Distance between lever hole and base of choke.
D. Cam Clamp Lever.
E. Distance between lever and cam.
F. Vacuum Piston Spring.
G. Vacuum Piston.
H. Kick Lever.
J. Vacuum Piston Lever.
K. Kick Lever Adj. Screw.
L. Locking Cam.
M. Piston Lever Roller.
N. Thermostat Case Prong.
O. Case Clamp Screw.
P. Pointer.
Q. Thermostat Case.

STANDARD SETTINGS FOR MODEL "C" AUTOMATIC CHOKE

All Settings are to be made with roller "M" in locked position against first step on cam "L." (Step closest to cam axis.)

Unhook thermostat "A" from prong "N." Loosen clamp screw "O" and revolve thermostat case "Q" so that the zero marking is under the pointer. When in this position the hook of the thermostat should be flush with the prong (at 70° F. See note).

NOTE: In determining 70° F. Thermostat Setting ("0" Stamping), if temperature in room is below 70° F., turn housing "Q" in rich direction 1 notch for each 3°, and if above 70° F., turn housing "Q" in lean direction 1 notch for each 3°. (Allow thermostat "A" to cool or warm so as to be of the same temperature as room.)

PARTS AND SETTINGS EXCEPTIONS MODEL "C" AUTOMATIC CHOKE

CHEVROLET 1932 AND 1933

A-17530 Model "C" Automatic Choke (Code No. 14-6)

Std. Part No.	Special Parts Used On Above Model Car	
P-17816	P-18448	Bushing
P-17972	P-18289	Main Body
P-17991	P-18268	Housing

SETTINGS:

C: ⅞" plus or minus 1/64".
E: .190 to .196 (No. 10 Drill).
Thermostat Setting: 23 notches rich (Prick punch position).

DE SOTO, 1933-34

A-17570 Model "C" Automatic Choke

Std. Part No.	Special Parts Used On Above Model Car	
P-17972	P-18289	Main Body
P-17991	P-18268	Housing

SETTINGS:

C: 1" plus or minus 1/64".
E: .158 to .164 (No. 20 Drill).
Thermostat Setting: 8 notches rich (Prick punch position).

ESSEX TERRAPLANE 1934

A-17930 Model "C" Automatic Choke

Std. Part No.	Special Parts Used On Above Model Car	
P-17816	P-18448	Bushing
P-18311	P-18318	Piston Spring

SETTINGS:

C: 1⅝" plus or minus 1/64".
E: .158 to .164 (No. 20 Drill).
Thermostat Setting: 14 notches rich (Prick punch position).

OLDSMOBILE L-33 AND F-33 (402700)

A-17220 Model "C" Automatic Choke (Code No. 5-11)

Std. Part No.	Special Parts Used On Above Model Car	
P-18311	P-18318	Pump Spring
None Shown	P-18357	Choke Rod (L-33)
None Shown	P-18290	Choke Rod (E-33)

SETTINGS:

C: 1⅝" plus or minus 1/64".
E: .158 to .164 (No. 20 Drill).
Thermostat Setting: 14 notches rich (Prick punch position).

PACKARD "STD. 8" AND "SUPER 8" 1933 (210177)

No. A-17280 Model "C" Automatic Choke (Code No. 10-8)

Std. Part No.	Special Parts Used On Above Model Car	
P-16835	P-19313	Gasket
P-17991	P-18426	Thermostat Housing
P-18271	P-18271-K	Thermostat Stem and Lever

SETTINGS:

C: 1$\frac{7}{16}$" plus or minus 1/64".
E: .147 to .152 (No. 25 Drill).
Thermostat Setting: 8 notches rich. (Prick punch position.)

PACKARD "TWIN SIX" 1933-1936 (210243)

No. A-17290 Model "C" Automatic Choke (Code No. 10-9)

Std. Part No.	Special Parts Used On Above Model Car	
P-16835	P-19313	Gasket
P-17816	P-18399	Piston Bushing
P-17972	P-18425	Main Body
P-17983	P-18424	Main Body Cover
P-17991	P-18426	Thermostat Housing
P-18271	P-18549-L	Thermostat Stem and Lever
P-18311	P-18318	Pump Spring
None Shown	P-18397-L	Choke Rod

SETTINGS:

C: 1$\frac{13}{16}$" plus or minus 1/64".
E: .188 to .198 (No. 12 Drill).
Thermostat Setting: 28 notches rich. (Prick punch position.)

PARTS AND SETTINGS EXCEPTIONS MODEL "C" AUTOMATIC CHOKE (Continued)

PIERCE ARROW 1933 MODELS “836” AND “839” (702642)
A-15150 Model “C” Automatic Choke (Code No. 18-7)

Std Part No	Special Parts Used On Above Model Car	
P-17988	P-21351	Thermostat
P-18271	P-17987	Stem and Lever
None Shown	P-17902	Bushing
None Shown	P-18259	Choke Rod

SETTINGS
C $1\frac{1}{32}$ plus or minus 1/64′
E 169 to 175 (No 17 Drill)
Thermostat Setting 12 notches rich (Prick punch position)

PIERCE ARROW “1236” AND “1242” 1933 (702829)
MODELS “1240-A” AND “1248-A” 1934
MODELS “1245” AND “1255” 1935
MODEL “1602” AND “1603” 1936
No A-16090 Model “C” Automatic Choke (Code No. 18-8)

Std Part No	Special Parts Used On Above Model Car	
P-17972	P-18289	Main Body
P-17988	P-21351	Thermostat
P-17991	P-18268	Thermostat Housing
None Shown	P-18291	Choke Rod

SETTINGS
C 41/64″ plus or minus 1/64′
E 169 to 175 (No 17 Drill)
Thermostat Setting 12 notches rich (Prick punch position)

PIERCE ARROW, 1934-35-36 (705226)
MODELS 836-A, 840-A, 845, 1601
A-17630 Model “C” Automatic Choke (Code No 18-2)

Std Part No	Special Parts Used On Above Model Car	
P-16835	P-19313	Flange Gasket
P-17816	P-17902	Bushing
P-17988	P-16817	Thermostat
P-18271	P-19804	Stem and Lever
None Shown	P-6387	Plug
None Shown	P-18259	Choke Rod

SETTINGS
C $1\frac{1}{32}$ plus or minus 1/64
E 169 to 175 (No 17 Drill)
Thermostat Setting 10 notches rich (Prick punch position)

PLYMOUTH, 1933-35
A-17560 Modle “C” Automatic Choke

Std Part No	Special Parts Used On Above Model Car	
P-17816	P-18448	Bushing
P-17972	P-18289	Main Body
P-17991	P-18268	Housing

SETTINGS
C 1 plus or minus 1/64′
E 158 to 164 (No 20 Drill)
Thermostat Setting 6 notches rich (Prick punch position)

PONTIAC, 1933
A-17580 Model “C” Automatic Choke

Std Part No	Special Parts Used On Above Model Car	
P-17816	P-18448	Bushing
P-17972	P-18298	Main Body
P-17991	P-18268	Housing
P-18311	P-18318	Pump Spring

SETTINGS
C 1-51/64″ plus or minus 1/64′
E 158 to 164 (No 20 Drill)
Thermostat Setting 8 notches rich (Prick punch position)

REO “FLYING CLOUD,” 1933 (1-SA-158)
No A-17360 Model “C” Automatic Choke (Code No 12-3)

Std Part No	Special Parts Used On Above Model Car	
P-17816	P-18448	Bushing
P-17991	P-18439	Thremostat Housing
P-18271	P-18441	Thermostat Stem and Lever
P-18311	P-18318	Pump Spring
None Shown	P-18446	Choke Rod (Send Separate)

SETTINGS
C 1-31/32′ plus or minus 1/64″
E 190 to 196 (No 10 Drill)
Thermostat Setting $\frac{7}{16}$′ between hook on Thermostat and hook on dial (Unhooked and 70° F) Prick punch position)

STUDEBAKER “DICTATOR 62’ 1932-33 “COMMANDER 73” 1932-33 “PRESIDENT 92” 1932-33, “PRESIDENT “C” 1934 (178479)
No A-17000 Model “C” Automatic Choke (Code No 6-17)

Std Part No	Special Parts Used On Above Model Car	
P-18271	P-17987	Thermostat Stem and Lever
P-18310	P-18773	Thermostat Cam and Screw
P-18311	P-18318	Pump Spring
None Shown	P-17933	Choke Rod (Send Separate)
None Shown	P-19989	Set Screw
None Shown	P-12866	Lead Ball

SETTINGS
C 1-3/32″ plus or minus 1/64′
E 158 to 164 (No 20 Drill)
Thermostat Setting 16 notches rich (Prick punch position)
Cam Stop Set Screw 005 to 009 between stop and screw

STUDEBAKER “56” 1933 (178569)
No. A-17010 Model “C” Automatic Choke (Code No 6-16)

Std Part No	Special Parts Used On Above Model Car	
P-18271	P-17987	Thermostat Stem and Lever
P-18310	P-18773	Thermostat Cam (Complete)
P-18311	P-18318	Pump Spring
None Shown	P-17934	Choke Rod (Send Separate)
None Shown	P-19989	Set Screw
None Shown	P-12866	Lead Ball

SETTINGS
C 61/64″ plus or minus 1/64′
E 158 to 164 (No 20 Drill)
Thermostat Setting 16 notches rich (Prick punch position)
Cam Stop Set Screw 005 to 009 between stop and screw

STUDEBAKER 1934-35-36 (181468)
A-17590 Model “C” Automatic Choke (Code No 6-5)

Std Part No	Special Parts Used On Above Model Car	
P-16824	P-19156	Thermostat Bracket
P-16835	P-19313	Flange Gasket
P-16829	P-19157	Pointer
P-17816	P-22050	Bushing
P-17972	P-19154	Main Body
P-17983	P-17983-F	Cover
P-17988	P-21608	Thermostat
P-18271	P-19976	Stem and Lever
P-18311	P-18318	Pump Spring
None Shown	P-19989	Set Screw
None Shown	P-12866	Lead Ball
None Shown	P19972	Choke Rod (Send Separate)

SETTINGS
C 1-3/32′ plus or minus 1/64′
E 158 to 164 (No 20 Drill)
Thermostat Setting 12 notches rich (Prick punch position)
Cam Stop Set Screw 005 to 009 between stop and screw

STUDEBAKER 1936 MODEL “C” PRESIDENT (188920)
A-17940 Model “C” Automatic Choke (Code No. 6-56)
Starting with Studebaker Engine No B-11876

Std Part No	Special Parts Used on Above Model Car	
P-16824	P-19156	Thermostat Bracket Housing
P-17816	P-22050	Vacuum Reducer Bushing
P-17829	P-19157	Adjusing Pointer
P-17972	P-19154	Main Body
P-17988	P-21608	Thermostat
P-18271	P-19976	Thermostat Stem and Lever
P-18310	P-18773	Kick Lever, Cam and Screw
P-18311	P-18318	Vacuum Piston Spring
None Shown	P-19989	Kick Lever Cam Set Screw
None Shown	P-12866	Kick Lever Cam Lock Washer
None Shown	P-19972	Choke Rod (Send Separate)
None Shown	‡P-17761	Choke Rod Ball Joints
None Shown	‡P-16639	Choke Rod Lock Nut

SETTINGS
C 1-3/32″ Plus or minus 1/64
E 158 to 164 (No 20 Drill)
Thermostat Setting 12 Notches Rich (Prick Punch)
Cam Stop Set Screw 005 to 009 between Stop and Screw position

STUDEBAKER 1937 MODEL “3-C” PRESIDENT (190109)
A-17950 Automatic Choke

Std Part No	Special Parts Used on Above Model	
P-16824	P-22664	Thermostat Housing Bracket
P-16829	P-19157	Thermostat Adjusting Pointer
P-16835	P-19313	Flange Gasket
P-16889	P-22662	Thermostat Bracket Attach Screw
P-16893	P-18849	Thermostat Housing Clamp
P-16933	P-19155	Main Body Bushing (Long)
	P-17975	Main Body Bushing (Short)
P-17972	P-19154	Main Body Assy
P-17983	P-17983-F	Thermostat Cover
P-17988	P-21608	Thermostat
P-17991	P-22663	Thermostat Housing
P-18271	P-19976	Thermostat Lever and Stem
P-18310	P-18773	Kick Lever Cam and Screw Assy
None Shown	P-19989	Kick Lever Cam Set Screw
None Shown	P-12866	Kick Lever Cam Set Screw Lock Scr
None Shown	P-19972	Choke Rod Assy
None Shown	P 17761	Choke Rod Ball Joint
None Shown	P-16639	Choke Rod Adj Nut
None Shown	P 17060	Choke Rod Adj Nut Washer
None Shown	P-22665	Coil Hook Lever Attach Bushing
None Shown	P-22666	Coil Hook Lever Washer
None Shown	P-22667	Coil Hook Lever

SETTINGS
E 158 to 164 (No 20 Drill)
Thermostat Setting 8 notches rich
NOTE Adjust kick lever cam set screw with 005 to 009 between stop and screw to bring roller in contact with first notch of cam

STUTZ 1933 (392641)
No A-17380 Model “C” Automatic Choke (Code No 56-2)

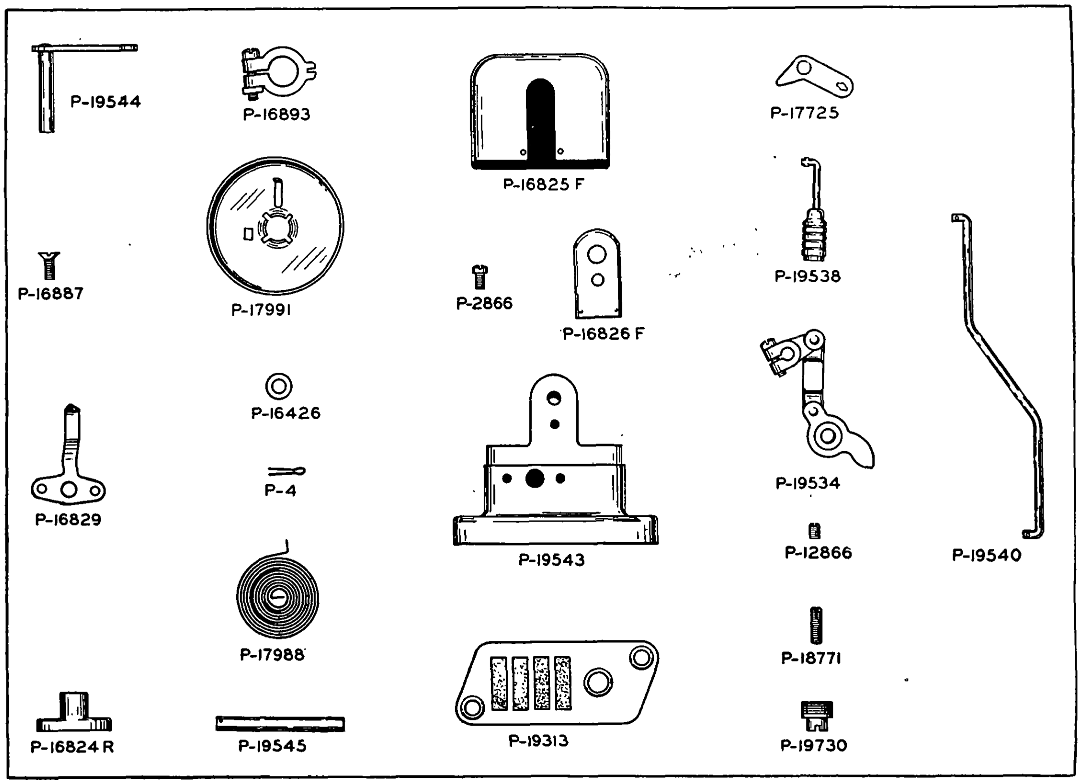
Std Part No	Special Parts Used On Above Model Car	
P-16824	P-18461	Thermostat Bracket
P-17816	P-18448	Bushing
P-17972	P-18488	Main Body
P-17988	P-18734	Thermostat
P-18271	P-18451	Thermostat Stem and Lever
P-18311	P-18318	Pump Spring
None Shown	P-18456	Choke Rod (Send Separate)
None Shown	P-18470	Thermostat Plate and Pin
None Shown	P-18465	Thermostat Guide Plate

SETTINGS
C $1\frac{1}{8}$ plus or minus 1/64″
E 154 to 160 (No 22 Drill)
Thermostat Setting ⅜ between hook on Thermostat and hook on dial (unhooked and at 70° F prick punch position)

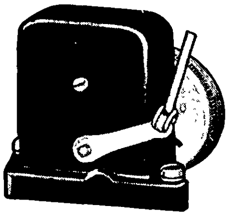
STUTZ MOTOR 1935 PACKAGE CAR (40015)
3″x4′—4 Cylinder Herc 1XA Engine
A-17710 Auto Choke (Code No 56-5)

Std Part No	Special Parts Used on Above Model Car	
P-17816	P-19730	Bushing
P 18271-K	P-18549	Thermostat Stem and Lever

SETTINGS
C $1\frac{1}{8}$ Plus or Minus 1/64
E 158 to 164 (No 20 Drill)
Thermostat Setting 6 Notches Rich (Prick punch position)



N . "H" A-17620

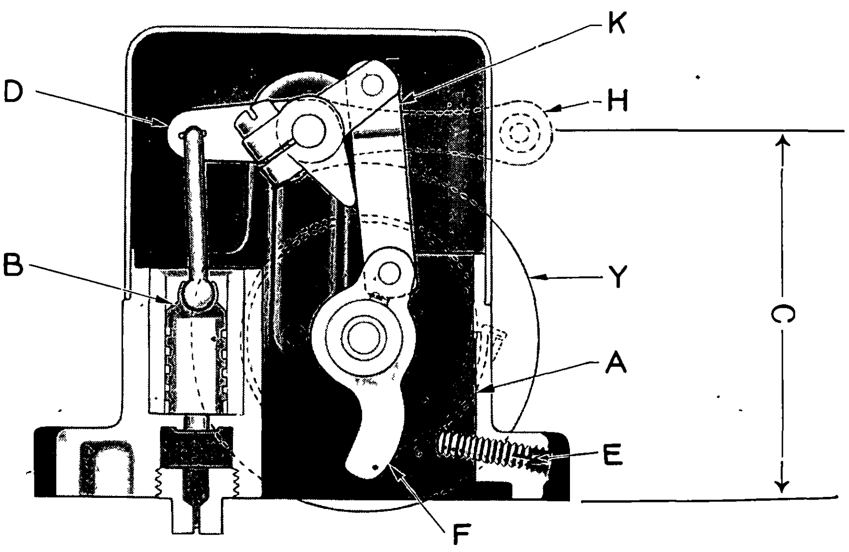


Notes and References: Car models having this carburetor with parts exceptions therefor are shown on back of this page.

‡Indicates Sub-assembly part.

PARTS LIST STROMBERG MODEL "H" AUTOMATIC CHOKE (as used on L-34 Oldsmobile 1934)

Part No.	Name
P-4	Thermostat Lever Washer Cotter Pin
P-2866	Main Body Cover Plate Screw
P-12866	Choke Lever Adj. Screw Lock Screw
P-16426	Thermostat Lever Washer
P-16824-R	Thermostat Bracket
P-16825-F	Main Body Cover
P-16826-F	Main Body Cover Plate
P-16829	Thermostat Pointer
P-16887	Thermostat Stem Screw
P-16893	Thermostat Housing Clamp with Screw
‡P-9025	Thermostat Housing Clamp Screw
‡P-4517	Thermostat Housing Clamp Screw Nut
P-17725	Piston Kick Lever
P-17988	Thermostat
P-17991	Thermostat Housing
P-19313	Auto. Choke Flange Gasket
P-19534	Choke Link with Lever
‡P-17723	Choke Lever Bushing Screw
‡P-2475	Choke Lever Clamp Screw
P-19538	Piston with Link
P-19540	Auto. Choke Connector Rod
P-19543	Main Body
‡P-16933	Choke Stem Bushings
P-19544	Choke Lever with Stem
P-19730	Check Valve Bushing
P-19989	Choke Lever Adj. Screw



Parts indicated above are as follows:

A. Thermostat
B. Vacuum Piston
C. Distance between Lever Hole and base of choke
D. Kick Lever
E. Locking Action Set Screw
F. Locking Action Lever
H. Control Lever
K. Connecting Link
Y. Thermostat Case

STANDARD SETTINGS FOR MODEL "H" AUTOMATIC CHOKE

Lever positions may be determined by holding automatic choke in upright position with thermostat away and suction hole to left. (Choke in closed position.)

Unhook Thermostat "A" from hook. Revolve case so that zero marking is directly in line with Thermostat Pointer , and at 70° F. (See Note) hook on dial should be flush with hook on thermostat with choke lever "H" in uppermost position. If this space needs to be adjusted, it can be done by loosening the set screw in lever "F" and moving Thermostat shaft to desired position, fasten set screw securely, observing that the Thermostat does not rub against case "Y." (Replace hook.)

NOTE: In determining 70° F. Thermostat Setting ("0" Stamping), if temperature in room is below 70° F., turn housing in rich direction 1 notch for each 3°, and if above 70° F., turn housing in lean direction 1 notch for each 3°. Allow Thermostat to cool or warm so as to be of the same temperature of room.

To adjust and check locking action, set dial "Y" 27 notches rich and the locking action should break with a pressure of ¾ lb. to 1¾ lb. on end of choke lever. If this needs to be adjusted, it may be done by adjusting the set screw "E." (Return dial "Y" to zero position.)

PARTS AND SETTINGS EXCEPTIONS MODEL "H" AUTOMATIC CHOKE

OLDSMOBILE 1934 "L-34" (404305)

A-17620 Automatic Choke (Code No. 5-4)

Parts as Illustrated

SETTINGS:

Choke Lever: Turned left.
C: 2-25/64" plus or minus 1/64".
Thermostat Setting: 3 notches rich. (Prick punch position).

HERCULES (31028-BS)

A-17670 Automatic Choke (Code No. 27-18

Std. Part No.	Special Part No.	Used On Above Model Engine
P-2866	P-2207	Main Body Fill. Hd. Screw ....
P-19543	P-20905	Main Body ....
P-19544	P-20906	Choke Lever and Stem ....

When specified on order, will furnish P-19313 Flange Gasket—P-20907 Choke Rod.

SETTINGS:

Choke Lever: Turn right
C: 3⅝" plus or minus 1/64"
Thermostat Setting: 2 notches rich. (Prick punch position.)